

GlotLID: Language Identification for Low-Resource Languages

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Abstract

Several recent papers have published good solutions for language identification (LID) for about 300 high-resource and medium-resource languages. However, there is no LID available that (i) covers a wide range of low-resource languages, (ii) is rigorously evaluated and reliable and (iii) efficient and easy to use. Here, we publish GlotLID-M, an LID model that satisfies the desiderata of wide coverage, reliability and efficiency. It identifies 1665 languages, a large increase in coverage compared to prior work. In our experiments, GlotLID-M outperforms four baselines (CLD3, FT176, OpenLID and NLLB) when balancing F1 and false positive rate (FPR). We analyze the unique challenges that low-resource LID poses: incorrect corpus metadata, leakage from high-resource languages, difficulty separating closely related languages, handling of macrolanguage vs varieties and in general noisy data. We hope that integrating GlotLID-M into dataset creation pipelines will improve quality and enhance accessibility of NLP technology for low-resource languages and cultures. GlotLID-M model, code, and list of data sources are available: <https://github.com/cisnlp/GlotLID>.

1 Introduction

The NLP community should create technology that covers as many languages as possible, not only medium-resource and high-resource languages. This goal can only be achieved if corpora for low-resource languages are available. Web-mined datasets – including CC100 (Wenzek et al., 2020), mC4 (Xue et al., 2021) and OSCAR (Abadji et al., 2021; Ortiz Suárez et al., 2019) – have made important contributions to low-resource NLP. In particular, they lay the ground for multilingual neural models like XLM-R (Conneau et al., 2020), mT5 (Xue et al., 2021) and Glot500 (ImaniGooghari et al., 2023). However, existing web-mined datasets have systematic quality issues (Kreutzer et al., 2022) and

insufficient coverage of low-resource languages.

Low-quality datasets cause poor performance for downstream applications. They can also give rise to a misleading perception of progress when coverage of a low-resource language is claimed based on noisy data. NLP for low-resource languages requires high-quality datasets and high-quality datasets require high-quality LID (language identification). For this reason, high-quality LID for low-resource languages is paramount. To address this need, in this paper we present GlotLID-M, a high-quality LID that covers 1665 languages. We use ISO 639-3 to individuate languages.

When expanding the scope of LID from a few hundred to 1665 languages, the problem of *granularity* becomes severe. In real-world settings, LID needs to support both macrolanguages and their varieties; it also needs to be robust against out-of-model cousins (Caswell et al., 2020; Kreutzer et al., 2022). We pay particular attention to this issue.

While low-resource is our main focus, Blevins and Zettlemoyer (2022) point out that low-quality LID also affects high-resource corpora through contamination, resulting in claims of successful crosslingual transfer that are due to unrecognized coverage of low-resource languages. We also address this issue, e.g., we improve English F1 on the “Universal Declaration of Human Rights” corpus (UDHR) to .85 compared to .43 for OpenLID.

Contributions. (i) We curate GlotLID-C, a comprehensive dataset covering 1665 languages, most of them low-resource, from a diverse set of domains. (ii) We train GlotLID-M on GlotLID-C, an open-source LID covering these 1665 languages. (iii) In our experiments, GlotLID-M outperforms several baselines by more than 12% absolute F1 on UDHR, which we take as the best benchmark for our focus on low-resource languages. (iv) When balancing F1 and false positive rate (FPR), GlotLID-M also outperforms baselines on FLORES-200, which is dominated by high-

/medium-resource languages.

2 Requirements for low-resource LID

Main use case: Corpus creation. Corpus creation and cleaning is the main use case for our low-resource LID because we want to address the need for high-quality corpora for low-resource languages. Line-by-line LID filtering is an effective method for achieving high corpus quality. Reliable LID can eliminate various types of noise (see (Caswell et al., 2020; Kreutzer et al., 2022)) – including data from other languages and non-linguistic data – that is frequent, especially in web-crawled content. By adjusting the confidence threshold, users will have control over the level of quality of the corpora they create.

Broad coverage of languages, minimize out-of-model cousin errors. We strive for as broad a coverage as is possible given available datasets. This has two benefits. First, it reduces “out-of-model cousin” errors (Caswell et al., 2020; Kreutzer et al., 2022), i.e., it reduces the risk that a language not covered is misclassified as a closely related covered language. Second, having LIDs that discriminate many low-resource languages is a pre-requisite for developing NLP technologies for the largest possible number of languages. Yet many existing LIDs only cover a few hundred languages. In this study, we therefore focus on LIDs having a broad coverage, excluding CLD2 (McCandless, 2010), Equilid (Jurgens et al., 2017), Langdetect (Shuyo, 2010) and langid.py (Lui and Baldwin, 2012). These LIDs cover less than 100 languages or are outperformed by the models we compare with.

Open-source. LIDs should be open-source to encourage open collaboration and conform to best research practices. Some LIDs that meet our other requirements are not open-source, e.g., those published by Caswell et al. (2020), Bapna et al. (2022) and Kudugunta et al. (2023). CLD3 (Botha et al., 2017; Salcianu et al., 2018) is freely available, but its training code is not open-source.

Ease of use. LIDs should be easily deployable across platforms and programming environments without having to worry about dependencies, compatibility and lack of maintenance.

Because of this ease-of-use requirement, we do not consider whatlang (Brown, 2014b,a) nor idNet (Dunn, 2020), two broad-coverage LIDs that meet many other requirements, but are hard to use in many practical scenarios due to software issues

and lack of maintenance.

Uncertainty assessment. In our use cases, we would like to rely on uncertainty measures to distinguish cases where the highest-probability language is certain from those where it is not. This would allow us to choose a level of confidence for the resulting corpus. For example, we may want to retain only sentences identified with a high confidence (say, 70%). This is essential to produce high-quality low-resource corpora.

Because of this requirement, we do not consider Franc (Wormer, 2014) as a baseline. While it has many desirable properties, it generally does not provide well-calibrated probabilities. It usually returns several classes, giving 1.0 to the top class and values close to 1.0 to several others.

Efficiency. LID is easy to run in parallel, but we still need an efficient solution to make it applicable to large corpora, not least for ecological reasons.

Lack of efficiency is the reason why we do not use AfroLID (Adebara et al., 2022) as a baseline, despite its excellent coverage of African languages.¹ AfroLID is a transformer architecture and less efficient than its competitors.

Granularity flexibility. When scaling LID from a few hundred languages to more than 1500, it is hardly practical to restrict the set of labels to a single level of the language hierarchy (e.g., using resources like <https://iso639-3.sil.org>). This is due to the complexity of defining and delimiting languages, including the coexistence of macrolanguages and their varieties. In many cases, we want to keep both the macrolanguage and the varieties in our label set because the varieties we have data for are important languages in their own right. But for other varieties, we do not have variety-labeled data, so the only way to include them is through the macrolanguage. For example, FLORES-200 (NLLB Team et al., 2022) covers the macrolanguage aka (Akan) and its variety twi (Twi), but not its variety fat (Fanti). Keeping both aka and twi gives flexibility to LID users: they can either differentiate aka and twi or they can consolidate the two labels to the single label aka, depending on what makes more sense in their setting.

3 Dataset curation

We now describe GlotLID-C, a corpus for LID training that covers 1832 languages.

¹It has no coverage of other low-resource languages.

Source selection. We choose sources that we deem trustworthy (i.e., high chance of correct language label). To address the domain sensitivity of LID and broaden language coverage, we curate a diverse set of text domains.

We review sources referenced by ImaniGooghari et al. (2023); Burchell et al. (2023); Blaschke et al. (2023); Adebara et al. (2022); Adebara and Abdul-Mageed (2022). In each case, we consider the collection methodology, selecting sources whose language labels are trustworthy. We generally do not use web-crawled sources to avoid the associated problems (Kreutzer et al., 2022). Most selected sources are derived from Wikipedia, religious texts, collaborative translations, storybooks, and news sites. This gives us a coverage of 1832 languages, more than any other public LID. For a list of data sources, see §A.

Preprocessing. We ensure that each sentence is written in the correct script, based on the writing system databases of Kargaran et al. (2023) and van Esch et al. (2022). We use the GlotScript (Kargaran et al., 2023) Python library to determine scripts.² We also eliminate duplicate sentences.

Statistics. Our final corpus, GlotLID-C, comprises 289 million sentences (i.e., lines of data) totaling 40GB and spans 1832 languages (identified by their ISO 639-3 code). 1677 languages have more than 1000 sentences. Refer to §D for the total number of sentences per language.

Train/test split. We designate 85% of the data as **GlotLID-C train**. Let n_l be the number of sentences from language l in the remaining 15%. Then we sample $\min(1000, n_l)$ sentences from it. We refer to the resulting dataset as **GlotLID-C test**.

Contamination. To make sure our evaluation data (especially UDHR, refer to §5.1) do not overlap with our sources, we compute contamination of UDHR in GlotLID-C train.

We count a UDHR test sentence as occurring in the training set if all of its word four-grams occur in one sentence of GlotLID-C. Most of these contaminations are due to two resources: Wikipedia and Tatoeba.³ GlotLID-C train shares 374 languages with UDHR.

For 292 languages, we find that none of the UDHR test sentences occurs in the training data. For 57 languages, less than 10% of UDHR test sentences occur in the training data. The remaining

25 languages with a contamination rate over 10% are all high/medium resource languages.

In our experiments, we decided against removing any sentences from GlotLID-C, as there is little contamination of UDHR for low-resource languages. We follow here most prior work which has the problem of contamination of UDHR for high-resource languages. We will however remove from GlotLID-C train the sentences causing contamination as part of our next release.

4 GlotLID-M

We select FastText (Joulin et al., 2017) as the architecture for GlotLID-M, because it satisfies all requirements outlined in §2 as we will explain now.

We train our FastText model GlotLID-M on GlotLID-C train with 1832 languages. FastText can easily handle the large number of languages in the corpus. Because of this **broad coverage, out-of-model cousin errors are reduced**. Although we restrict the number of classes to 1665 for some experiments (e.g., in Table 1), GlotLID-M’s classification always uses all 1832 languages to mitigate out-of-model cousin errors. This satisfies the first requirement from §2: GlotLID-M is a useful tool for corpora creation because it has a broad coverage of languages that can occur in raw data.

FastText provides an **open-source** codebase for training, which supports customization and extension of GlotLID-M.

FastText is **easy to use**: It offers a number of language bindings, making it compatible with multiple programming languages (including C++, Python, Java, Node.js, Rust, Ruby, R) and reducing dependency, incompatibility and other software issues.

FastText meets the requirement of **uncertainty assessment** because it provides confidence scores that can serve as thresholds to effectively mitigate noise in the data. For the same reason, FastText also supports **granularity flexibility**: we can accumulate probabilities over language varieties to get a good estimate of the probability of the macrolanguage. To this end, we simply add to the macrolanguage probability the probabilities of its varieties. This way, the system can return appropriate estimates at various levels of granularity.

As a professionally designed and implemented linear classifier, FastText is **efficient**: it had the best throughput of the candidate solutions we tested and can process large corpora with high speed. As a linear model, FastText has the additional advantage

²<https://github.com/cisnlp/GlotScript>

³<https://tatoeba.org/en/downloads>

of delivering explainable classification decisions. FastText is a multinomial logistic classifier. The input sentence is represented as an average of n-gram embeddings. This allows us to visualize how much each n-gram contributed to the final prediction. See [NLLB Team et al. \(2022\)](#), Fig. 8, for details.

Taking all these requirements together (and its good LID performance demonstrated in §6 and acceptable calibration in §F), GlotLID-M, based on FastText, is, in our opinion, an excellent tool for supporting our use case, the **creation of high-quality low-resource corpora**.

5 Experimental setup

We train GlotLID-M on GlotLID-C train using the hyperparameters in ([NLLB Team et al., 2022](#); [Burchell et al., 2023](#)) and otherwise FastText defaults (see §B). Following [Arivazhagan et al. \(2019\)](#), [NLLB Team et al. \(2022\)](#) and [Burchell et al. \(2023\)](#), we perform up-sampling for low resource languages. Sentences from a language l representing p_l of the dataset are sampled proportionally to $p_l^{\frac{1}{T}}$ where T is the temperature. Following [NLLB Team et al. \(2022\)](#) and [Burchell et al. \(2023\)](#), we set $\frac{1}{T} = .3$.

5.1 Evaluation data

We evaluate GlotLID-M on GlotLID-C test, FLORES-200 ([NLLB Team et al., 2022](#)) and UDHR⁴ (Universal Declaration of Human Rights).

While testing on data unseen in training is standard in NLP, the results have to be taken with a grain of salt because there is often a domain mismatch in real-world applications of LID ([Caswell et al., 2020](#); [Dunn, 2020](#)). FLORES-200 and UDHR address this concern: they are not part of our training set (however, see discussion in §3) and do not draw on our sources. Many other benchmarks share sources like Wikipedia with us ([Thoma, 2018](#); [Haas and Derczynski, 2021](#); [Ahmadi et al., 2023](#)). FLORES-200 and UDHR are also the benchmarks with the broadest available language coverage.

FLORES-200 is a collection of 842 articles obtained from English-language Wikimedia projects. Each sentence in the articles was translated into 204 distinct language-script combinations, corresponding to 196 distinct languages, and human-verified. It provides 997 sentences for development, 1012 for dev-test and 992 for test. FLORES-200 test is

⁴<http://www.unicode.org/udhr/d/>

not publicly available. Following prior work, we use dev-test as our FLORES test set.

The level of granularity across language (sub)families varies in FLORES; e.g., it includes nine varieties of Arabic. On the other hand, some languages (e.g., est:Estonian) are only available as macrolanguage. In some cases, FLORES includes both a macrolanguage and varieties, e.g., aka (Akan) and its variety twi (Twi), and zho (Chinese) and its variety yue (Yue Chinese). Although some issues have been reported (see §C.1) with FLORES, we do not have the resources to investigate them, so we use it as is.

UDHR consists of more than 500 translations of the “Universal Declaration of Human Rights”. 419 translations available from the “UDHR in Unicode” project have a iso-639-3 code that is not “und” (undetermined). We discard short sentences (e.g., consisting of just an article number or the single English word ‘missing’) by discarding the 35% shortest sentences for each language.

In some cases (e.g., Zulu and Quechua), UDHR contains both a macrolanguage and one of its varieties. We have also seen some issues in UDHR (see §C.2), but we have not extensively investigated these potential problems.

5.2 Baselines

Our baselines are FT176,⁵ CLD3, NLLB ([NLLB Team et al., 2022](#)) and OpenLID ([Burchell et al., 2023](#)). The first two were used for filtering the resources OSCAR and mC4 ([Kreutzer et al., 2022](#)).

CLD3. CLD3 uses an n-gram ($1 \leq n \leq 3$) based neural network model. CLD3 sometimes deviates from established metadata conventions. For example, ISO-639-1 ku refers to kur (Kurdish), but in CLD3 ku refers to its variety kmr (Northern Kurdish). It refers to Hebrew as iw, but the ISO code for Hebrew has changed to he and heb.

FT176. FT176 is a FastText model that uses Wikipedia (WP) codes as labels. The documentation of language metadata is sometimes unclear; e.g., FT176 refers to Alemannic German as als although ISO-639-3 als is Tosk Albanian. It refers to the Malay macrolanguage as ms, but unlike ISO-639-3, this does not include ind (Indonesian).

NLLB and OpenLID. NLLB and OpenLID are FastText models. Their language label sets are mostly taken from FLORES, so granularity and coverage are similar to FLORES.

⁵<https://fasttext.cc/docs/en/language-identification.html>

Decision rule

Given an LID classifier m , a base set B of languages and a threshold θ , we assign label $\phi(s, m, B, \theta)$ to sentence s as follows:

$$\phi(s, m, B, \theta) = \begin{cases} \text{undetermined} & \text{if } \max_{l \in B} P_m(l|s) < \theta \\ \operatorname{argmax}_{l \in B} P_m(l|s) & \text{otherwise} \end{cases}$$

We distinguish two scenarios: SET! and SET?.

In scenario SET!, the set of languages covered by the evaluation benchmark is known. We restrict a model’s predictions to those languages that occur in the benchmark. This means that B is a (proper or improper, see table captions for details) subset of the languages occurring in the benchmark.

In scenario SET?, the set of languages covered by the evaluation benchmark is not known. We do not restrict a model m ’s predictions: the model considers the entire set of languages it was trained on. This means that B is the set of languages that m was trained on.

Figure 1: Decision rule for assigning classes (i.e., languages) in language identification

Language metadata matching. Matching the metadata of the models to the metadata of the benchmarks (FLORES, UDHR, GlotLID-C) is not easy. First, models do not consistently adhere to standard language codes. In addition, differences in granularity require matching rules. For example, if a benchmark only covers a macrolanguage and none of its varieties, then we consolidate classification decisions for the macrolanguage and its variations into the macrolanguage label. See §E for details on metadata matching.

Confidence thresholds. For CLD3, we use .5 and .7, the two preset thresholds in Google’s CLD3 repository. For the other three baselines and GlotLID-M, we also use .5, but we use .3 as the second threshold value because .7 severely reduces the number of positive predictions for the FastText models, resulting in low F1.

Prior work has not systematically investigated the effect of confidence thresholding. However, it is of key importance for our use case of creating high-quality corpora for low-resource languages. See §5.3 and §6 for discussion of this point.

5.3 Decision rule

Figure 1 defines our decision rule.

SET! scenario. When comparing LIDs m_1 and m_2 (trained on the set of languages M_1 and M_2) on a benchmark T (supporting the set of languages $B(T)$), many evaluations create a subset $M_1 \cap M_2 \cap B(T)$ and remove all sentences in the benchmark that are labeled with languages outside of $M_1 \cap M_2 \cap B(T)$. SET! evaluation replicates this standard way of evaluating LIDs.

SET? scenario. We believe that the SET! scenario makes the LID task unrealistically easy: a portion of the data that could give rise to false positives (data not in $M_1 \cap M_2 \cap B(T)$) is removed.

It is particularly unrealistic for our low-resource scenario. Instead of hundreds of languages that are not supported by all models, we have more than a thousand. *We therefore run evaluations on the data for all languages* – not just for $M_1 \cap M_2 \cap B(T)$. That is, we run evaluations on the entire benchmark T , not on the subset in $M_1 \cap M_2 \cap B(T)$. This is the SET? setting in Table 2 where SET? signifies that the LID is not given prior knowledge about which languages occur in T . For example, for the comparison of CLD3 and GlotLID-M on FLORES in the top part (SET?) of Table 2, both CLD3 and GlotLID-M are run on the entire FLORES test set. We do not exclude the languages that are present in T , but are not part of $M_{\text{CLD3}} \cap M_{\text{GlotLID}}$, i.e., the languages outside of the set of 95 languages common to CLD3 and GlotLID-M.

Macro average. For a fair comparison to prior work, we restrict the macro average over languages to a subset of languages in order to replicate the experimental setup of this prior work. This subset is indicated in the tables.

Realistic evaluation for low-resource scenarios. We believe that our new evaluation setup SET? better approximates real world situations. In cleaning pipelines, LID models are often presented with an unknown set of languages without prior knowledge. Therefore, it is crucial for an LID to have the capacity to handle unknown languages. This can be achieved by setting a threshold θ on the confidence scores. If the confidence score for a predicted label falls below the threshold, the model should label the input text as “undetermined”. This reduces the risk of languages unknown to the model being incorrectly categorized as a known language (the out-of-model problem). Consequently, when comparing LIDs, it is necessary to apply each model to the entire benchmark.

Benchmark		L	GlottLID-M, $\theta=.0$		GlottLID-M, $\theta=.5$	
			F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow
GlottLID-C	all	1832	.940	.0005	.938	.0003
GlottLID-C	subset	1665	.977	.0003	.973	.0002
UDHR	all	374	.750	.0015	.734	.0007
UDHR	subset	342	.784	.0014	.770	.0006
FLORES-200	all	196	.917	.0042	.887	.0013
FLORES-200	subset	177	.957	.0029	.924	.0010

Table 1: Performance of GlottLID-M on GlottLID-C, UDHR and FLORES-200 test sets. Subset: restriction to an “operational” subset of languages that are either high-resource or for which GlottLID-M achieves $F1 \neq 0$ and $FPR \leq .0005$ on GlottLID-C test. L : intersection of GlottLID-M languages (all: 1832 or subset: 1665) and languages present in benchmark. Referring to Figure 1, the size of the base set B is either 1832 (all) or 1665 (subset). L is the set of languages over which the macro average is computed. For example, for the last line (FLORES-200 subset), B consists of 1665 languages and the reported macro averages are computed over 177 languages.

5.4 Evaluation measures

Unlike some older prior work (Jauhainen et al., 2019b), we do not use accuracy because classes are highly imbalanced. Instead, we follow recent prior work (NLLB Team et al., 2022; Burchell et al., 2023) and use F1 and false positive rate (FPR). F1 is an aggregate measure of precision and recall, both of which are important: we want accurate classifications decisions (precision) and we do not want to lose too much data (recall). FPR is defined as $FPR = \frac{FP}{FP+TN}$, where FP is the number of false positives, and TN is the number of true negatives. FPR helps us assess the potentially fatal effect of an even low false positive rate when the negative class is huge – which is the case in our scenario. For example, an FPR of .01 (which *prima facie* may seem ok) for a language l with base frequency .01 can result in a corpus for l that contains 50% noise, an unacceptably high level.

6 Results

Table 1 gives results on GlottLID-C test, UDHR and FLORES-200. GlottLID-M does not perform well on some languages. In particular, there are 167 (1832-1665) low-resource languages for which either $F1 < .01$ or $FPR > .0005$, often due to very small GlottLID-C training sets. The table gives results for “all” 1832 languages as well as for the “subset” of 1665 well-performing languages. We run GlottLID-M in two settings: $\theta=.0$ (i.e., we choose the highest probability class no matter how low its

probability is) and $\theta = .5$ (i.e., we only assign a language label if its probability exceeds .5). See Figure 1 for the definition of our decision rule.

Focusing on the “subset” results for $\theta = .5$, F1 is .973 on GlottLID-C and .924 on FLORES; and FPR is .0002 on GlottLID-C and .0010 on FLORES. This is a very good performance, in particular for the use case of low-resource corpus creation because low FPR means that the resulting corpora will be less contaminated. On UDHR, again for the “subset” results for $\theta = .5$, F1 is .770 and FPR .0006. This is again an encouragingly low FPR, but F1 is quite a bit lower than for GlottLID-C and FLORES. The reason is that we have a domain shift (compared to GlottLID-C) and many more languages (compared to FLORES), resulting in lower F1. Although the UDHR results should be improved further, we will now show that they outperform the state of the art.

Table 2 compares GlottLID-M with four baselines. We consider two evaluation settings (SET? and SET!) and three thresholds θ . The top part of the table (SET?) corresponds to the case where the set of languages in the benchmark is not known, i.e., the LID makes predictions for all languages it was trained on. In contrast, in the SET! setting (bottom part), the set of languages in the benchmark is known, and each LID only makes predictions for those languages. SET? is a more realistic setting, as we usually do not know which languages occur in a corpus that needs to be cleaned.

For the SET? setting, GlottLID-M consistently outperforms CLD3 by a large margin. Taking into account that F1 and FPR should be balanced, we also take it to outperform FT176. Even though GlottLID-M’s FPR is slightly higher in some cases, its F1 is better by a large margin, so that it is clearly the better performing system.

On UDHR, GlottLID-M also clearly outperforms OpenLID and NLLB for F1 and FPR by large margins. On FLORES, F1 is slightly worse and FPR slightly better compared with OpenLID and NLLB. We point out that this comparison is not entirely fair since OpenLID and NLLB were designed with FLORES in mind. More importantly, our use case is the creation of low-resource corpora for which UDHR is the more appropriate benchmark.

Comparing results for different thresholds, we observe that increasing θ lowers F1 (because recall is hurt) and lowers FPR (because precision is increased). This suggests that a higher threshold should be used since lower FPR will result in

		FLORES-200								UDHR								
		CLD3		FT176		OpenLID		NLLB		CLD3		FT176		OpenLID		NLLB		
		$ L =96$		$ L =108$		$ L =195$		$ L =188$		$ L =100$		$ L =124$		$ L =159$		$ L =172$		
LID Model	θ	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	
SET?	baselines	.0	.753	.0098	.775	.0090	.923	.0051	.947	.0053	.544	.0099	.566	.0079	.645	.0056	.641	.0051
	baselines	θ_1	.779	.0081	<u>.816</u>	.0033	.923	.0050	.948	.0051	.576	.0081	.644	.0025	.676	.0046	.677	.0040
	baselines	θ_2	<u>.799</u>	<u>.0060</u>	.796	.0021	.923	<u>.0044</u>	.947	<u>.0047</u>	<u>.618</u>	<u>.0060</u>	<u>.647</u>	.0014	<u>.718</u>	<u>.0034</u>	<u>.717</u>	<u>.0030</u>
	GlottLID-M	.0	.978	.0051	.987	.0042	<u>.916</u>	.0043	.947	.0035	.868	.0033	.868	.0030	.848	.0020	.847	.0019
	GlottLID-M	.3	.980	.0042	.987	.0037	.898	.0020	.927	.0019	.881	.0028	.879	.0026	.846	.0015	.844	.0015
SET!	GlottLID-M	.5	.980	.0031	.987	<u>.0029</u>	.886	.0014	.916	.0013	.903	.0023	.890	<u>.0021</u>	.847	.0012	.846	.0011
	baselines	.0	<u>.952</u>	.0104	<u>.881</u>	.0093	.923	.0051	<u>.950</u>	.0053	<u>.922</u>	<u>.0101</u>	<u>.739</u>	.0081	<u>.881</u>	.0063	<u>.854</u>	.0058
	GlottLID-M	.0	.983	.0104	.991	.0093	<u>.922</u>	.0051	.954	.0053	.952	.0100	.927	.0081	.926	<u>.0064</u>	.925	<u>.0060</u>

Table 2: Evaluation of LID performance. Top (“SET?”): The set of languages is not known, i.e., each LID makes predictions for all languages it was trained on. Bottom (“SET!”): The set of languages is known: each LID only makes predictions for languages that occur in the benchmark. For the more realistic “SET?” setting, GlotLID-M outperforms the baselines on UDHR (which we take to be the best benchmark for the low-resource case) assuming a good tradeoff between FPR and F1 is desired; it either matches or outperforms them on FLORES. Let M_i be the set of languages model m_i was trained on and $B(T)$ the set of languages covered by benchmark T . Then F1 and FPR are averages over $L = M_1 \cap M_2 \cap B(T)$ when comparing models m_1 and m_2 ; this is indicated in the third row of table, e.g., $|L| = 96$ for $m_1 = \text{CLD3}$, $m_2 = \text{GlottLID}$. $\theta_1=.5$ for CLD3, $\theta_1=.3$ for FT176, OpenLID and NLLB. $\theta_2=.7$ for CLD3, $\theta_2=.5$ for FT176, OpenLID and NLLB. Referring to Figure 1, the base set B in SET? has size 103 for CLD3, 176 for FT176, 195 for OpenLID, 211 for NLLB and 1832 for GlotLID-M (i.e., the languages the LID was trained on). For scenario SET!, $B = L$, i.e., $B = M_1 \cap M_2 \cap B(T)$. For example, $|B| = 96$ (for both CLD3 and GlotLID) for the four cells in the the SET! rows and the CLD3 columns in the lower left corner of the table. The best result in each column is **bolded**, and the second-best result is underlined.

low-resource corpora with less contamination from high-resource languages.

For the less realistic SET! setting, GlotLID-M performs better than CLD3 and FT176 and comparably to OpenLID and NLLB. Overall, GlotLID-M clearly outperforms all baselines for the low-resource corpus creation use case.

To analyze variance of results, we ran three GlotLID experiments with different initial seeds on the 200 languages with the most data, splitting the data into 80% train and 20% test. The F1 score was .991 each time. This indicates that the variance of FastText in this task (and by extension GlotLID) is negligible.

7 Analysis

In this section, we analyze the GlotLID-M results summarized in Table 1 ($\theta=.0$, “all”) for our main use case, the creation of high-quality corpora. We address four questions. (i) For which languages do we get a high number of false positives? (ii) For which languages do we produce a corpus with a high contamination rate? (iii) For which languages does learning completely fail? (iv) Is it more realistic to evaluate LID on a balanced test set (as in prior work) or on one that is skewed in favor of high-resource languages?

Most errors. We first analyze languages with a high number of errors. Table 3 (top, “most er-

rors”) gives for each of the three benchmarks the five languages that have the highest number of errors (column “language”). “FP” is the number of false positives, “cl” the ratio of true positives to all positives (that is the “cleanness” of the corpus), “top FP source” the language that contributed most of the errors and “%” is the portion of these false positives as a percentage of all false positives. We use the cl measure in our analysis because it is ultimately the measure we want to optimize to produce high-quality low-resource corpora. Note that cl (the denominator is the total number of positive sentences) is not directly related to FPR (the denominator is the number of sentences that do not belong to the language). cl is a more direct measure of the utility of the resulting corpus of a low-resource language (e.g., for training a language model) than FPR.

Most of the fifteen pairs of “conflated” languages shown in the table are closely related languages: varieties of Arabic (Standard, Najdi, Egyptian and Levantine), Persian (Iranian, Dari), Chinese (Mandarin, Yue, Wu, Hakka), English (Standard, Liberian), Quechua (Huallaga Huánuco, Huamalfés-Dos de Mayo Huánuco), Finnic (Finnish, Karelian), Slavic (Russian, Church Slavic), Bihari (Bihari, Bhojpuri) and Hindi (Standard, Awadhi). In many of these cases, speakers of one variety of the pair also have good knowledge

	FLORES-200				UDHR				GlotLID-C									
	language	FP	cl	top FP source	#FP	%	language	FP	cl	top FP source	#FP	%	language	FP	cl	top FP source	#FP	%
most errors	arb:St Arabic	3787	.18	ars:Najdi Arabi	829	.22	cmn:Mandarin Ch	596	.38	chr:Cherokee	81	.14	spa:Spanish	1952	.34	pid:Piaroa	156	.08
	arz:Egyptian Ar	1726	.32	apc:Levantine A	440	.25	qub:Huellaga Hu	247	.00	qvh:Huamalfes-D	55	.22	eng:English	1168	.46	lir:Liberian En	254	.22
	pes:Ir. Persian	1495	.40	prs:Dari	905	.61	fin:Finnish	224	.22	krl:Karelian	138	.62	rus:Russian	1057	.49	chu:Church Slav	661	.63
	cmn:Mandarin Ch	1008	.00	yue:Yue Chinese	1008	.99	wuu:Wu Chinese	172	.24	hak:Hakka Chine	44	.26	bho:Bhojpuri	882	.50	bih:Bihari Lgs	854	.97
	hin:Hindi	977	.51	awa:Awadhi	693	.71	rus:Russian	157	.28	niv:Gilyak	44	.28	lir:Liberian En	712	.47	din:Dinka	174	.24
most noisy	arb:St Arabic	3787	.18	ars:Najdi Arabi	829	.22	evn:Evenki	36	.23	oaa:Orok	19	.53	rus:Russian	1057	.49	chu:Church Slav	661	.63
	arz:Egyptian Ar	1726	.32	apc:Levantine A	440	.25	quz:Cusco Quech	82	.40	qxu:Arequipa-La	61	.74	eng:English	1168	.46	lir:Liberian En	254	.22
	prs:Dari	338	.24	pbt:S Pashto	310	.92	hrv:Croatian	84	.42	bos:Bosnian	39	.46	spa:Spanish	1952	.34	pid:Piaroa	156	.08
	dyu:Dyula	255	.25	bam:Bambara	255	.99	tzm:C Atlas Tam	52	.02	zgh:St Moroccan	52	.99	crq:Iyo'wujwa C	347	.47	crt:Iyojwa'ja C	347	.99
	apc:Levantine A	161	.42	ajp:S Levantine	70	.43	uzn:N Uzbek	72	.46	cbu:Candoshi-Sh	16	.22	crt:Iyojwa'ja C	698	.48	crq:Iyo'wujwa C	697	.99
no positives							tet:Tetum	0	.00				sck:Sadri	0	.00			
							hsn:Xiang Chine	0	.00				chg:Chagatai	0	.00			
							abk:Abkhazian	0	.00				liv:Liv	0	.00			
							vep:Veps	0	.00				gbm:Garhwali	0	.00			
							niv:Gilyak	0	.00				tmw:Temuan	0	.00			
hi resource	arb:St Arabic	3787	.99	ars:Najdi Arabi	829	.22	cmn:Mandarin Ch	596	.99	chr:Cherokee	81	.14	cmn:Mandarin Ch	367	.99	wuu:Wu Chinese	208	.57
	dzo:Dzongkha	10300	.09	bod:Tibetan	10300	.99	fin:Finnish	224	.99	krl:Karelian	138	.62	eng:English	1267	.99	lir:Liberian En	254	.20
	hin:Hindi	977	.99	awa:Awadhi	693	.71	hrv:Croatian	76	.99	mai:Maithili	24	.32	hin:Hindi	488	.99	bho:Bhojpuri	98	.20
	rus:Russian	1	.99	bul:Bulgarian	1	.99	rus:Russian	256	.99	eng:English	100	.39	rus:Russian	1156	.99	chu:Church Slav	661	.57
	spa:Spanish	10	.99	ast:Asturian	7	.70	spa:Spanish	62	.99	agr:Aguaruna	20	.32	spa:Spanish	1952	.99	pid:Piaroa	156	.08

Table 3: Analysis of the GlotLID-M runs with settings $\theta=.0$, SET? from Table 1 and Table 2. “most errors”: languages with the most false positives. “most noisy”: a sample of languages with cleanliness between 0 and .5. “no positives”: a sample of languages without positives. “hi resource”: a more realistic setting in which the distribution is skewed in favor of high-resource languages. For each “language”, we give the number of false positives (“FP”), the cleanliness of the resulting corpus (“cl”: ratio true positives to all positives), its most conflated language (“top FP source”), FP contributed by that language and the ratio of the two FP numbers (“%”). To save space, we write .99 for 1.00.

of the other; e.g., many speakers of Arabic varieties know Standard Arabic. The two Quechua varieties are spoken in neighboring areas of Peru. The quantitatively largest use of Church Slavic (which may be reflected in the size of our corpora) is in Russia by Russian speakers.

Arabic, Chinese and English (and perhaps also Hindi, Persian and Bihari) are diglossic linguistic communities. There may be a lack of clear separation between the two conflated varieties in the available corpora because speakers switch back and forth between more formal and less formal ways of speaking depending on factors like context, audience and subject. This type of fluid switching between languages often occurs in a single sentence or conversation, i.e., it manifests as code switching. As a result, much of the text (and speech) produced in one language may be mixed with the other language. New methods will have to be developed to deal with these quite complex challenges of creating training corpora for language identification; see also (Aguilar et al., 2020).

Apart from these related languages, at least four conflated language pairs in Table 3 are clear errors: Mandarin/Cherokee, Russian/Gilyak, Spanish/Piaroa and Liberian English/Dinka. Similar to the situation we described for the closely related languages, Gilyak (resp. Piaroa) is spoken in an area where Russian (resp. Spanish) is the dominant official language. This means that our training corpora will need to be improved: they most likely

contain many sentences labeled as Gilyak/Piaroa that are partially or completely Russian/Spanish. We leave it to future work to revisit and improve our corpus selection and preprocessing methodology to address this data quality problem.

GlottLID-M confuses Mandarin and Cherokee because our Cherokee training data do not cover the Cherokee syllabary script. Sentences written in this script are returned with a close to uniform distribution over several other scripts, including Chinese, Japanese and Thai, which explains the confusion. The Dinka test set is noisy. In a manual inspection, we found 377 sentences that are clearly English, not Dinka. Because GlotLID-M did not learn very well to discriminate English and Liberian English, 174 of these 377 sentence were classified as Liberian English.

Most noisy corpora. The second part of Table 3 (“most noisy”) gives, for each benchmark, a random selection of five languages whose cleanliness score cl (ratio of true positive to all positives) is in the range $0 < cl < .5$. The total number of languages in this range is 9 for FLORES, 27 for UDHR and 6 for GlotLID-C. Again, most of the conflated pairs are closely related languages as in the last section. Additional pairs that occur here are Dyula/Bambara, Evenki/Orok, Croatian/Bosnian, Berber languages (Standard Moroccan Tamazight, Atlas Tamazight) and two varieties of Chorote (Iyo’wujwa, Iyojwa’ja). The resulting corpora are noisy, an issue that we will have to

address in future work.

No positives. Part 3 of Table 3 (“no positives”) gives five random examples from languages for which there was not a single positive classification. There were no such languages for FLORES.

For UDHR, we identified two reasons. (i) Performance on GlotLID-C is good, but poor on UDHR. Tetum is an example. The most likely cause is a domain shift or some other big train/test difference. (ii) The training set is too small (less than 30 sentences): hsn (Xiang Chinese), abk (Abkhazian), vep (Veps) and niv (Gilyak) are in this class.

For the five GlotLID-C random examples with no positives, the reason is also that the training sets were too small (less than 40 sentences): sck (Sadri), chg (Chagatai), liv (Liv), gbm (Garhwali) and tmw (Temuan). We should have set a higher threshold for minimum size of the training corpus. Note that the number of 1665 languages that we use throughout the paper already reflects this insight. Even though we train on 1832 languages, we claim reasonable performance for only 1665 (Table 1).

Test set skewed in favor of high-resource. FLORES and UDHR test sets are balanced: high-resource and low-resource languages have about the same size. Following this model, we constructed the test set of GlotLID-C in the same way. F1 is independent of this distribution, but FPR and cleanness (“cl”) are strongly dependent on it. The Spanish corpus generated by GlotLID-M on GlotLID-C test has a dismal cleanness of only .34. Is this a problem for GlotLID-M?

We believe the answer is no, as the corpora we run LID on will have a distribution skewed in favor of high-resource languages. To simulate this more realistic scenario, the last part of Table 3 (“hi resource”) gives five selected languages for each benchmark where we have inflated the subsets for high-resource languages by a factor of 100. For example, instead of a single copy of the English part of FLORES, the test set now contains 100 copies.

We see in Table 3 that this results in clean corpora (cl=.99) for each of the fourteen high-resource languages shown: Standard Arabic, Hindi, Russian, Spanish (FLORES); Mandarin, Finnish, Hindi, Russian, Spanish (UDHR); Mandarin, English, Hindi, Russian, Spanish (GlotLID-C). As an example, looking at Spanish for GlotLID-C (the first and last lines in the table), the number of false positives (1952) and the number of false positives contributed by the low-resource language Piaroa (156) are the same. But since the size of Spanish is

increased 100x, its cleanness improves from .34 for the unrealistic uniform distribution to .99 for the realistic skewed distribution. Thus, as we would expect, LID for high-resource languages is a relatively easy problem and this does not change much if we run a broad-coverage LID like GlotLID-M.

Conversely, LID numbers for low-resource languages can be *negatively* affected. The Dzongkha corpus generated from FLORES in the uniform setting has 103 false positives and a cleanness of .91 (not shown). In the skewed setting, making Tibetan a high-resource language causes 10,300 false positives from Tibetan to leak into Dzongkha, reducing its cleanness to an unacceptable .09.

This discussion suggests that the established evaluation methodology for LID is unsatisfactory. We recommend that future work considers both uniform and skewed test sets to better assess how LID is expected to perform in the real world.

This analysis demonstrates how much harder LID becomes when we represent as large and diverse sets of languages as we do. What we have shown is that there is a real danger of creating corpora that are badly contaminated. To address this, we need to develop methodologies and resources that better handle low-resource languages.

Based on the analysis described in this section we created and open-sourced a much improved version of the UDHR test set for evaluation of LID.⁶ All UDHR results in this paper are based on the version of the UDHR test set described in §5.1.

8 Conclusion

We create GlotLID-C, an LID resource that covers 1832 languages, several times more than prior work. We introduce GlotLID-M, an open-source LID that covers 1665 languages with good results. The comparison of GlotLID-M against four LID baselines shows superior performance for the low-resource use case. In future research, we would like to improve quality of our training corpora and add more low-resource languages in to GlotLID. We hope GlotLID will be a valuable resource in creating higher-quality corpora for low-resource languages.

⁶<https://huggingface.co/datasets/cis-lmu/udhr-lid>

Limitations

(1) We publish list of GlotLID-C data sources as part of this work. There is no other LID benchmark available that covers as many languages as GlotLID-C does. GlotLID-C, FLORES and UDHR all have drawbacks as evaluation datasets for LID. An LID trained on GlotLID-C train and tested on GlotLID-C test will often find the same domain in the test set as in the training set. It is well known that this results in overly optimistic evaluation numbers. FLORES and UDHR consist of data that were not originally produced in each language. Rather, they were translated from high-resource languages. The same is true to a lesser extent for GlotLID-C. Translated language is only an imperfect evaluation benchmark because it can differ greatly from natural language data, i.e., translationese is often not a good model of natural language data.

(2) Many corpora for the lowest resource languages are derived from religious sources. It should be noted that many Bible translations do not reflect actual language use.

(3) We do not conduct hyperparameter search and instead use the hyperparameters employed by previous studies. However, conducting such a search can make our findings more robust, considering the difference in the number of languages included in our study compared to the prior work.

(4) Although we tried our best to select the most suitable LIDs as the baseline. We could not compare against all of the LID models. This includes CLD2 (McCandless, 2010), Equilid (Jurgens et al., 2017), Langdetect (Shuyo, 2010), langid.py (Lui and Baldwin, 2012), whatlang (Brown, 2014b,a), idNet (Dunn, 2020), Franc (Wormer, 2014), AfroLID (Adebara et al., 2022), HeLI-OTS (Jauhiainen et al., 2022), transliterate⁷, whatthelang⁸, whatlang-rs⁹, lingua¹⁰, Google/Bing Online, LanideNN (Kocmi and Bojar, 2017), Paasaa¹¹, Q-LID (Ren et al., 2022), UDLDI (Goswami et al., 2020), PALI (Ahmadi et al., 2023), SS-LID (Caswell et al., 2020; Bapna et al., 2022; Kudugunta et al., 2023) and TextCat (Cavnar et al., 1994).

⁷<https://github.com/barseghyanartur/transliterate>

⁸<https://github.com/indix/whatthelang>

⁹<https://github.com/greyblake/whatlang-rs>

¹⁰<https://github.com/pemistahl/lingua>

¹¹<https://github.com/minibikini/paasaa>

Ethics Statement

We here highlight key ethical considerations for GlotLID.

Data. The data used in our study comes from openly available (but not necessarily freely redistributable) datasets, including resources previously published by researchers, publishers, and translators. We ensured that the data collection process complied with licensing of each dataset.

Bias. We recognize potential biases towards higher resource languages. We conducted a comprehensive analysis of errors and evaluated their impact on our results.

Inclusivity. We acknowledge the challenges associated with low-resource languages and have taken steps to include a diverse range of languages in our study.

Ethical Use. We have demonstrated both positive and negative outcomes of applying GlotLID-M as an LID tool. We acknowledge that GlotLID-M has a high error rate for some low-resource languages. This means that there is a potential risk of excluding low-resource languages during the collection and processing of NLP corpora.

Transparency. We provide detailed descriptions of our methodology, model architecture, and evaluation process. Additionally, we make our research artifacts, including model, code, and list of data sources openly available to foster collaboration and reproducibility.

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A List of data sources

- **Wikipedia articles:** Wikipedia dumps,¹² WiLI-2018 (Thoma, 2018), Leipzig corpora-wikipedia split (Goldhahn et al., 2012)
- **News:** BBC News (Hasan et al., 2021), Global Voices (Tiedemann, 2012), Leipzig corpora-news split (Goldhahn et al., 2012), SETIMES (Tiedemann, 2012)
- **Translation:** NLLB Seed (NLLB Team et al., 2022)
- **Religious:** PBC (Mayer and Cysouw, 2014), Jehovah’s Witnesses,¹³ 1000Langs¹⁴
- **Crowdsourcing:** Tatoeba¹⁵
- **Multiple domain:** MT-560 (Gowda et al., 2021; Tiedemann, 2012; Burchell et al., 2023; Post et al., 2012; Ziemski et al., 2016; Rozis and Skadiņš, 2017; Kunchukuttan et al., 2018; Qi et al., 2018; Zhang et al., 2020; Bojar et al., 2013, 2014, 2015, 2016, 2017, 2018; Barrault et al., 2019, 2020), LTI (Brown, 2012), Arabic (Zahir, 2022; Alsarsour et al., 2018; Abu Kwaik et al., 2018; Medhaffar et al., 2017; Meftouh et al., 2015; Zaidan and Callison-Burch, 2011; El-Haj et al., 2018; Bouamor et al., 2019), Persian (Pilevar et al., 2011; Kashefi, 2018), Turkic (Mirzakhlov et al., 2021), Bhojpuri (Ojha, 2019), Cantonese (Luke and Wong, 2015), Guaraní (Gónzaga et al., 2022), Manipuri (Huidrom et al., 2021)
- **Government domain:** Autshumato (Groenewald and du Plooy, 2010)

We also introduce additional data sources suited for LID, but they are not included in the training of the version of GlotLID-M discussed in the paper:

- **Crowdsourcing:** CommonVoice v11 (Ardila et al., 2020)
- **Web:** Wanca 2016 (Jauhiainen et al., 2019a)
- **News:** GlotSparse¹⁶ which is a collection of news websites in low-resource languages, MasakhaNEWS (Adelani et al., 2023), Goud.ma (Issam and Mrini, 2022), AI4D Siminyu et al. (2021), Radio Ramogi,¹⁷

¹²<https://dumps.wikimedia.org/>

¹³<https://www.jw.org/>

¹⁴<https://github.com/ehsanasgari/1000Langs>

¹⁵<https://tatoeba.org/en/downloads>

¹⁶<https://github.com/cisnlp/GlotSparse>

¹⁷<https://github.com/Pogayo/Luo-News-Dataset>

smugri (Yankovskaya et al., 2023), finno-ugric (Yankovskaya et al., 2023)

- **Traslation:** GlotStoryBook¹⁸ which is a collection of children storybooks in 174 languages from Global Storybooks¹⁹, AfriQA Ogundepo et al. (2023), smugri-flores (Yankovskaya et al., 2023)
- **Multiple domain:** Universal Dependencies v2.12 (Nivre et al., 2020), Abkhaz National Corpus²⁰
- **Lyrics:** lyricstranslate²¹
- **Government domain:** Vuk’uzenzele (Las-trucci et al., 2023)

Specifically, GlotSparse¹⁶ and GlotStoryBook¹⁸ are two corpora that compiled as a side of this project to include more languages and domains for LID.

B GlotLID-M hyperparameters

We provide the hyperparameters used to train the GlotLID-M in Table 4.

argument	description	value
-minCount	minimal number of word occurrences	1000
-minCountLabel	minimal number of label occurrences	0
-wordNgrams	max length of word ngram	1
-bucket	number of buckets	1e6
-minn	min length of char ngram	2
-maxn	max length of char ngram	5
-loss	loss function	softmax
-dim	size of word vectors	256
-epoch	number of epochs	2
-lr	learning rate	.8

Table 4: GlotLID-M training hyperparameters

C Evaluation data issues

C.1 FLORES-200

There are some mistakes in the FLORES-200 dataset which have been raised by the community.

For example, in a GitHub issue,²² it is pointed out that yue_Hant and zho_Hant should actually be very easy to distinguish from each other, and the Cantonese (Yue Chinese, yue_Hant) data in FLORES-200 is completely wrong.

¹⁸<https://github.com/cisnlp/GlotStoryBook>

¹⁹<https://github.com/global-asp/>

²⁰<https://clarino.uib.no/abnc/page>

²¹<https://lyricstranslate.com/>

²²<https://github.com/facebookresearch/flores/issues/61>

In another issue²³, it is mentioned that the Central Atlas Tamazight (tzm) is actually in Standard Moroccan Tamazight (zgh), as confirmed by a native speaker of Central Atlas Tamazight.

C.2 UDHR

There are some mistakes with UDHR. For example, both ckb and kmr files are the same. ckb is known for the Arabic script, although it can also be written in Latin. There are also some files that the writing system is not in popular use (based on Kargaran et al. (2023) metadata):

- ckb_Latn (Arabic script is in use.)
- azb_Latn (Arabic script is in use.)
- khk_Mong (Cyrillic script is in use.)
- vie_Hani (Latin script is in use.)

D Performance of GlotLID-M per language

The list of languages used to train GlotLID-M, along with the corresponding amount of available data and detailed results for each language, can be found in Tables 5-29

E Language metadata matching

The per-language comparison between GlotLID-M and the baselines (CLD3, FT176, OpenLID, and NLLB) for each benchmark in scenario is as follows:

FLORES-200. (i) GlotLID-M vs CLD3: Tables 30-31 (ii) GlotLID-M vs FT176: Tables 32-33 (iii) GlotLID-M vs OpenLID: Tables 34-35 (iv) GlotLID-M vs NLLB: Tables 36-37

UDHR. (i) GlotLID-M vs CLD3: Tables 38-41 (ii) GlotLID-M vs FT176: Tables 42-45 (iii) GlotLID-M vs OpenLID: Tables 46-47 (iv) GlotLID-M vs NLLB: Tables 48-49

The underlined results in each table show the best result for each model, and the **bold** result indicates the overall best result.

The tables also contain the metadata matching rules we define. Column “isocode639-3” contains the ISO 639-3 code of each language. This corresponds to the class used by GlotLID-M (since all our classes are ISO 639-3 codes). The following columns contain the codes that we mapped the ISO

²³<https://github.com/facebookresearch/flores/issues/63>

639-3 codes to. For example, Table 30 indicates that we map ISO 639-3 code fas to pes/prs in FLORES. In other words, to evaluate our performance for the language fas in FLORES, we (only conceptually) create a new test set in which all sentences labeled as pes or prs in FLORES, are relabeled as fas.

F Calibration

As stated in §2, an LID model should provide a calibrated confidence measure in addition to its prediction. Reliability diagrams illustrate model calibration (DeGroot and Fienberg, 1983; Niculescu-Mizil and Caruana, 2005). These diagrams use expected sample accuracy as a function of confidence. If the model is perfectly calibrated, then the diagram plots the identity function.

We provide the reliability diagram for GlotLID-M on GlotLID-C test in Figure 2. For GlotLID-C test, the plot is nearly close to the identity function. However, for some of the low confidence scores, it’s not calibrated. This mostly happens because we included so many languages in our models, and some of these languages are very similar to each other or have small training sizes.

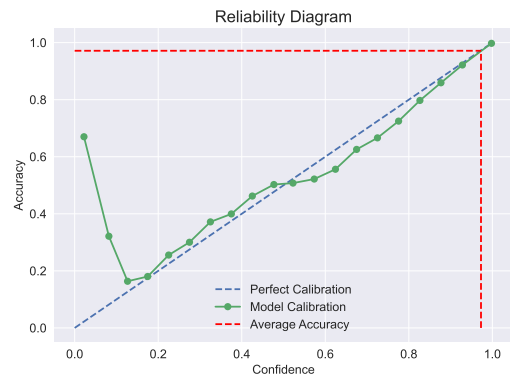


Figure 2: Reliability diagram for GlotLID-M on GlotLID-C test

G Analysis of baseline results

In this section, we analyze baseline results summarized in Table 2. For a detailed breakdown of results for each language in scenario SET?, see §E.

CLD3: The largest performance gap between SET? and SET! is for CLD3. This could be attributed to the different architecture of CLD3, which performs better when the set is known. Also, since CLD3 supports fewer languages compared

to other models, it has an advantage in terms of supporting a higher percentage of high-resource languages within its base set.

CLD3 achieves a lower F1 score than the other FastText-based models in the UDHR benchmark in scenario SET?. However, in scenario SET! for the UDHR, it outperforms all other FastText-based models on F1. Additionally, the good performance achieved in both benchmarks (.952 and .922) in scenario SET! illustrates the robustness of this LID.

FT176. When comparing FT176 and GlotLID-M in FLORES-200, GlotLID-M achieves the highest F1 scores in FLORES. This may be attributed to the fact that all languages in FT176 are supported by Wikipedia, and GlotLID-M has strong support for these languages. On the other hand, FT176 has the worst overall performance among the FastText models.

NLLB and OpenLID. In FLORES-200, OpenLID and NLLB have an advantage in scenario SET?, as this scenario closely aligns with SET!. Both models provide near-complete support for the languages available in FLORES-200. For the rest of the models and benchmarks, GlotLID-M displays a marked difference in performance and takes the lead. Among the baseline models in scenario SET?, OpenLID shows the best performance in both benchmarks. We will now investigate which languages OpenLID performs better or worse in compared to GlotLID-M.

In scenario SET?, when comparing OpenLID and GlotLID-M on FLORES-200, most of the time the per language scores are very close to each other (see Tables 34- 35). However, there are cases where OpenLID performs noticeably better, for example, with a .39 improvement for azb and .29 for awa. On the other hand, GlotLID-M performs better by .2 for zho, which can be attributed to the poorer performance of OpenLID in zho_Hant. Additionally, both models perform poor on languages such as Yue Chinese, which could be attributed to an issue with FLORES-200 (see §C.1). However, this situation is quite different for UDHR, as GlotLID-M supports more languages than OpenLID, GlotLID-M performs much better in handling languages that are outside the intersection of both models' base sets.

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
aai	Arifama-Miniafia	7954	0.9995	0.0				
aak	Ankave	7784	1.0	0.0				
aau	Abau	7888	1.0	0.0				
aaz	Amarasi	9071	0.999	0.0				
aba	Abé	28725	0.81648	0.00371				0.00416
abk	Abkhazian	28						
abn	Abua	61385	0.94699	0.00091				
abq	Abaza	48	1.0	0.0				
abt	Ambulas	15129	0.999	6e-05				
abx	Inabaknon	7855	0.999	3e-05				
aby	Aneme Wake	7070	0.998	3e-05				0.00011
abz	Abui	16642	0.98171	6e-05				
aca	Achagua	4408	0.99929	0.0				
acd	Gikyode	7884	1.0	0.0				
ace	Achinese	31228	0.98176	0.00014	0.95503	0.00579	0.90909	0.0012
acf	Saint Lucian Creole French	21811	0.97035	0.00019				
ach	Acoli	42735	0.995	0.00017				0.00044
acm	Mesopotamian Arabic	4902	0.79445	0.00091	0.01562	0.00023		
acn	Achang	7919	0.9995	0.0				0.00099
acq	Ta'izzi-Adeni Arabic	1598	0.60947	0.00058	0.00197	6e-05		
acr	Achi	27176	0.996	0.00011				0.00044
acu	Achuar-Shiwiar	11509	0.999	0.0			0.584	0.00011
ada	Adangme	217601	0.998	8e-05			0.91045	0.00131
ade	Adele	7924	0.9985	6e-05				
adh	Adhola	8975	0.99549	6e-05				0.00055
adi	Adi	30717	0.9945	0.00017				0.00022
adj	Adioukrou	7883	0.998	0.0				
adl	Galo	7956	0.998	3e-05				
ady	Adyghe	4885	0.99596	0.0			0.83495	0.0
adz	Adzera	1489	0.99541	0.0				
aeb	Tunisian Arabic	26935	0.86433	0.00231	0.28501	0.00199		
aer	Eastern Arrernte	9577	0.9995	0.0				0.00011
aeu	Akeu	7853	1.0	0.0				0.00504
aez	Amele	9061	0.9995	0.0				
afb	Gulf Arabic	136	0.2	3e-05				
afh	Afrihili	79	0.75862	3e-05				
afr	Afrikaans	1436086	0.98216	0.00074	1.0	0.0	0.95238	0.00066
agd	Agarabi	7917	1.0	0.0				
agg	Angor	7788	1.0	0.0				
agm	Angaataha	7889	0.9995	0.0				
agn	Agutaynen	7844	0.9985	6e-05				
agr	Aguaruna	23895	0.93626	0.0005			0.81429	0.00033
agt	Central Cagayan Agta	7554	0.9985	3e-05				
agu	Aguacateco	7928	0.9985	0.0				
agw	Kahua	35771	0.998	0.00011				
agx	Aghul	1150	0.97898	0.00011				
aha	Ahanta	18467	0.999	0.0				
ahk	Akha	134957	1.0	0.0				
aia	Arosi	7804	0.9995	0.0				
aii	Assyrian Neo-Aramaic	10736	1.0	0.0				
aim	Aimol	7949	0.9975	3e-05				0.00022
ain	Ainu (Japan)	324	0.91111	3e-05				0.00022
ajg	Aja (Benin)	35237	0.99245	3e-05		0.00028	0.64516	0.00722
aji	Ajië	9916	0.998	3e-05				0.00175
ajp	South Levantine Arabic	28203	0.75111	0.00341	0.10836	0.00102		
ajz	Amri Karbi	7956	0.999	3e-05				0.00033
aka	Akan	1174	0.95114	0.0	0.99852	0.0		
akb	Batak Angkola	7940	0.98993	8e-05				
ake	Akawaio	7933	1.0	0.0				
akh	Angal Heneng	7756	0.9995	3e-05				
akl	Aklanon	28						
akp	Siwu	7919	0.9985	3e-05				
ald	Alladian	7939	1.0	0.0				
alj	Alangan	7877	0.999	6e-05				0.00011
aln	Gheg Albanian	71977	0.98587	0.00014		6e-05		
alp	Alune	7829	0.999	0.0				0.00011
alq	Algonquin	8025	0.9995	0.0				
als	Tosk Albanian	403221	0.97813	0.00077	0.99852	0.00011	0.85507	0.00208
alt	Southern Altai	89192	0.99701	0.00017			0.95495	0.00033
aly	Alyawarr	7411	1.0	0.0				
alz	Alur	103655	0.99651	0.00014				
ame	Yanesha'	7697	0.9995	0.0			1.0	0.0
amf	Hamer-Banna	7808	0.998	3e-05				0.0012
amh	Amharic	682875	0.99206	0.00044	0.99951	6e-05	1.0	0.0
ami	Amis	104294	0.999	3e-05			0.26087	0.0

Table 5: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 1)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
amk	Ambai	7850	0.9995	3e-05				
amm	Ama (Papua New Guinea)	7826	1.0	0.0				
amn	Amanab	14975	0.9995	3e-05				0.00011
amp	Alamblak	7720	0.9985	3e-05				
amr	Amarakaeri	7671	1.0	0.0			1.0	0.0
amu	Guerrero Amuzgo	8056	0.999	0.0				0.00022
amx	Anmatyerre	1949	1.0	0.0				
ang	Old English (ca. 450-1100)	379	0.88889	3e-05				
ann	Anal	30940	0.99499	8e-05				
ann	Obolo	7948	0.9995	0.0				
anv	Denya	7928	0.9995	3e-05				
any	Anyin	7949	0.999	0.0				
aoc	Pemon	98	1.0	0.0				0.00044
aoi	Anindilyakwa	3813	0.99644	3e-05		0.00028		
aoj	Mufian	15638	0.9995	3e-05				
aom	Ömie	7848	0.9995	3e-05				
aon	Bumbita Arapesh	7832	1.0	0.0				0.00011
aos	Uab Meto	7962	0.99501	0.00019				
apb	Sa'a	7764	1.0	0.0				
apc	Levantine Arabic	68045	0.79142	0.00891	0.17857	0.00915		
ape	Bukiyip	7832	0.9995	3e-05				0.00033
apn	Apinayé	7353	1.0	0.0				
apr	Arop-Lokep	7853	1.0	0.0				
apt	Apatani	7941	1.0	0.0				0.00011
apu	Apurinã	7937	1.0	0.0				
apw	Western Apache	7930	0.9995	0.0				
apy	Apalaí	30421	0.9995	0.0				
apz	Safeyoka	7830	1.0	0.0				0.00022
ara	Arabic	1044573	0.9985	8e-05				
arb	Standard Arabic	7100859	0.81268	0.01268	0.25705	0.21515	0.98333	0.00011
are	Western Arramta	7810	1.0	0.0				
arg	Aragonese	30103	0.97236	0.00011				
arh	Arhuaco	3968	0.42298	0.00121				
arl	Arabela	7914	1.0	0.0			0.99187	0.0
arn	Mapudungun	154241	0.81037	0.01037			0.93913	0.00011
arp	Arapaho	1151	0.9971	0.0				
arq	Algerian Arabic	3826	0.89381	0.00036		0.00114		0.00011
ars	Najdi Arabic	23194	0.7232	0.00624	0.00894	0.00574		
ary	Moroccan Arabic	31432	0.83395	0.00272	0.56588	0.05164		0.00011
arz	Egyptian Arabic	183549	0.86439	0.00635	0.46309	0.09806		
asg	Cishingini	7900	0.9975	0.00011				
asm	Assamese	213937	0.99749	0.0	1.0	0.0		
aso	Dano	7694	1.0	0.0				
ast	Asturian	1030498	0.97023	0.00151	0.9916	0.00051	0.97521	0.00011
ata	Pele-Ata	9433	0.999	3e-05				
atb	Zaiwa	7905	1.0	0.0				
atd	Ata Manobo	7849	0.9985	6e-05				
atg	Ivbie North-Okpela-Arhe	7947	0.9995	0.0				
ati	Attié	17922	0.78761	0.00209				
att	Pamplona Atta	7954	1.0	0.0				
auc	Waorani	7930	1.0	0.0			0.01504	0.0
auí	Anuki	652	1.0	0.0		6e-05		
auy	Awiyaana	7710	0.9965	8e-05				0.00044
ava	Avaric	7833	0.9975	0.00011				
avk	Kotava	4103	0.95715	0.00019		0.00017		0.00022
avt	Au	7878	1.0	0.0				
avu	Avokaya	7590	1.0	0.0				
awa	Awadhi	13074	0.94648	0.00011	0.38951	6e-05		
awb	Awa (Papua New Guinea)	7880	0.9995	3e-05				
awi	Aekyom	7790	0.999	0.0				0.00011
awx	Awara	1635	0.9958	0.0				
aym	Aymara	368899	0.99402	0.00025				
ayo	Ayoreo	7898	0.9995	3e-05				
ayr	Central Aymara	173203	0.99449	8e-05	0.99557	0.00045	0.98361	0.00022
azb	South Azerbaijani	532	0.97778	3e-05	0.36583	0.00011		
aze	Azerbaijani	1069419	0.9995	3e-05				
azg	San Pedro Amuzgos Amuzgo	7939	1.0	0.0				
azj	North Azerbaijani	472589	0.9935	0.00019	0.99901	0.0	0.74306	0.00668
azz	Highland Puebla Nahuatl	7943	1.0	0.0				0.00011
bak	Bashkir	171555	0.98846	0.00022	1.0	0.0		0.0012
bal	Baluchi	141	0.84211	0.0				
bam	Bambara	20569	0.92308	0.00061	0.52563	0.05119	0.49682	0.00635
ban	Balinese	32978	0.99348	8e-05	0.97521	6e-05	0.97561	0.00011
bao	Waimaha	7940	0.9995	3e-05				
bar	Bavarian	130954	0.98611	0.00061				0.00011

Table 6: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 2)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
bas	Basa (Cameroon)	132504	0.996	0.00014		0.00017		0.00022
bav	Vengo	7954	1.0	0.0				0.00011
bba	Baatonum	33686	0.999	6e-05			0.92187	0.00099
bbb	Barai	10264	1.0	0.0				
bbc	Batak Toba	279942	0.98618	0.00074				
bbj	Ghomálá'	27499	0.79298	0.00465				0.00109
bbr	Girawa	7675	0.999	3e-05				0.00011
bcc	Southern Balochi	1753	0.99313	3e-05				
bch	Bariai	10603	0.998	3e-05				
bci	Baoulé	382411	0.998	8e-05		0.00011	0.97521	0.00033
bcl	Central Bikol	1193855	0.99104	0.00039			1.0	0.0
bco	Kaluli	1544	1.0	0.0				
bcw	Bana	7874	1.0	0.0				
bdd	Bunama	7866	0.9985	6e-05				
bdh	Baka (South Sudan)	7948	0.9995	0.0				0.00011
bea	Beaver	677	1.0	0.0				
bef	Benabena	7857	0.999	3e-05				0.00044
bel	Belarusian	428690	0.998	6e-05	1.0	0.0	0.98333	0.0
bem	Bemba (Zambia)	1477399	0.98039	0.0011	0.9906	0.00045	0.98333	0.00022
ben	Bengali	1659455	0.97466	0.00143	0.99852	6e-05	1.0	0.0
beq	Beembe	7934	0.60249	0.01262				
ber	Berber languages	628585	0.84139	0.00514		0.01335		0.00099
bex	Jur Modo	10586	0.9985	0.0				0.00274
bfd	Bafut	7941	0.999	3e-05				
bfo	Malba Birifor	7898	0.998	0.00011				
bfz	Mahasu Pahari	57	0.83333	0.0				
bgr	Bawm Chin	7859	0.99599	6e-05				
bgs	Tagabawa	9968	0.999	0.0				
bgz	Banggai	7819	0.9995	0.0				
bhg	Binandere	2782	0.99632	0.0				
bhl	Bimin	9573	0.999	3e-05				
bho	Bhojpuri	62722	0.64017	0.02426	0.94329	0.00443	0.78519	0.00033
bhp	Bima	7876	0.9995	0.0				
bhw	Biak	109097	0.99045	0.00011				
bib	Bissa	7940	0.9995	0.0				
big	Biangai	7814	0.9995	3e-05				0.00022
bih	Bihari languages	10000	0.18688	0.00025				
bik	Bikol	30000	0.98838	3e-05				
bim	Bimoba	30166	0.998	0.00011				0.00033
bin	Bini	132682	0.9975	3e-05			0.9927	0.00011
bis	Bislama	1062315	0.998	0.00011			1.0	0.0
biu	Biete	7929	0.99499	0.00011				
biv	Southern Birifor	7936	0.999	0.0				0.00022
bjn	Banjar	32196	0.95164	0.00022	0.79496	0.05329		0.00536
bjp	Fanamaket	877	1.0	0.0				
bjr	Binumarien	9867	1.0	0.0				
bjv	Bedjond	7919	0.998	3e-05				
bkd	Binukid	7773	0.998	0.0				
bkq	Bakairí	7773	0.9995	0.0				
bku	Buhid	7911	0.999	3e-05				
bkv	Bekwarra	7860	1.0	0.0				
bla	Siksika	204	0.98361	0.0				
blh	Kuwaa	7902	0.999	0.0				0.00011
blw	Balangao	7883	0.9995	0.0				0.00033
blz	Balantak	7917	0.997	6e-05				
bmb	Bembe	8008	0.56335	0.01023				
bmh	Kein	7688	0.9995	3e-05				
bmk	Ghayavi	650	0.95385	6e-05				
bmq	Bomu	7930	0.9985	0.0				
bmr	Muinane	7926	1.0	0.0				
bmu	Somba-Siawari	9565	0.999	3e-05				0.00011
bnj	Eastern Tawbuid	7881	0.9985	3e-05				
bnp	Bola	14309	0.996	0.00011				
boa	Bora	7650	1.0	0.0			0.99213	0.00011
bod	Tibetan	24952	0.98419	0.00077	0.94589	6e-05	0.89091	0.00011
boj	Anjam	14853	1.0	0.0				0.00022
bom	Berom	7960	0.998	3e-05				
bon	Bine	7901	1.0	0.0				
bos	Bosnian	507207	0.76033	0.00138	0.58206	0.00312	0.18026	0.01007
bov	Tuwuli	7907	0.9985	0.0				
box	Buamu	7830	1.0	0.0		6e-05		0.00011
bpr	Koronadal Blaan	7840	0.96566	0.00066				
bps	Sarangani Blaan	7840	0.96682	0.00118				
bpy	Bishnupriya	30000	0.98785	0.0				
bqc	Boko (Benin)	30639	0.99551	0.00017				

Table 7: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 3)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
bqj	Bandial	7903	0.998	3e-05				
bqp	Busa	7894	0.9955	0.00014				0.00011
bre	Breton	16810	0.98688	0.00011			0.98361	0.0
bru	Eastern Bru	7888	0.999	0.0				
brx	Bodo (India)	11						
bsc	Bassari	7949	0.9995	3e-05				0.00022
bsn	Barasana-Eduria	7547	0.999	3e-05				
bsp	Baga Sitemu	4533	0.99089	0.00017				0.00011
bsq	Bassa	4073	0.96104	3e-05		0.00028		0.00055
bss	Akoose	7905	0.999	0.0				
btd	Batak Dairi	9423	0.99246	6e-05				0.00011
btg	Gagnoa Bété	16784	0.77055	0.00396				0.00055
bth	Biatah Bidayuh	7889	0.999	0.0				
bts	Batak Simalungun	8277	0.99097	0.00017				
btt	Bete-Bendi	7866	0.999	0.0				0.00011
btx	Batak Karo	191461	0.97756	0.00069				
bua	Buriat	10906	0.97807	6e-05				
bud	Ntcham	7916	0.999	3e-05				0.00022
bug	Buginese	15386	0.98379	8e-05	0.99802	6e-05	0.95312	0.00055
buk	Bugawac	7776	0.9995	0.0				
bul	Bulgarian	1762751	0.98762	0.00061	0.99951	0.0	0.96	0.00055
bum	Bulu (Cameroon)	141188	0.99102	0.0003		6e-05	0.54762	0.00022
bus	Bokobaru	7882	0.99399	0.00014				0.00011
bvr	Burarra	7882	1.0	0.0				
bvy	Baybayanon	76						
bvz	Bauzi	7501	1.0	0.0				0.00011
bwd	Bwaidoka	1522	0.99797	0.0				
bwi	Baniwa	262	0.96104	0.0				
bwq	Southern Bobo Madaré	7921	0.99699	3e-05				0.00011
bwu	Buli (Ghana)	7824	0.998	3e-05				
bxh	Buhutu	4196	0.99915	3e-05				0.00011
bxr	Russia Buriat	8599	0.997	8e-05				
byr	Baruya	8233	1.0	0.0				
byv	Medumba	2171	0.97605	8e-05				0.00394
byx	Qaqet	7783	0.9995	0.0				
bzd	Bribri	8660	0.999	0.0				0.00077
bzh	Mapos Buang	7937	0.9995	3e-05				0.00011
bzi	Bisu	7830	0.999	0.0				
bjz	Belize Kriol English	124087	0.94398	0.00179				
bzt	Brithenig	357	0.92308	3e-05				0.00011
caa	Chortí	7940	1.0	0.0				
cab	Garifuna	228814	0.98498	0.00039			0.992	0.00011
cac	Chuj	38234	0.999	3e-05				0.00055
caf	Southern Carrier	7943	0.99198	0.00017				
cag	Nivaclé	9167	0.9995	0.0				0.00033
cak	Kaqchikel	164900	0.99601	0.00019			1.0	0.0
cao	Chácobo	7902	0.999	3e-05				
cap	Chipaya	15847	0.999	3e-05				0.00011
caq	Car Nicobarese	32067	1.0	0.0				
car	Galibi Carib	9359	0.9995	3e-05				0.00055
cas	Tsimané	7870	0.998	3e-05				0.00011
cat	Catalan	1137480	0.97554	0.00129	1.0	0.0	0.93023	0.00099
cav	Cavineña	7741	0.9995	0.0				0.00011
cax	Chiquitano	15872	1.0	0.0				0.00011
cay	Cayuga	31						
cbc	Carapana	7791	0.9975	3e-05				
cbi	Chachi	7863	1.0	0.0			0.9771	0.00022
cbk	Chavacano	111815	0.98029	0.00025				0.00033
cbr	Cashibo-Cacataibo	7813	0.9995	0.0			0.7033	0.0
cbs	Cashinahua	7502	1.0	0.0		6e-05	0.67308	0.00033
cbt	Chayahuita	7804	0.9995	0.0			0.97479	0.00011
cbu	Candoshi-Shapra	7588	1.0	0.0			0.33803	0.0
cbv	Cacua	7694	1.0	0.0				
cce	Chopi	120353	0.99299	0.00014		6e-05		0.00011
cco	Comaltepec Chinantec	7890	1.0	0.0				0.00131
ceb	Cebuano	2111383	0.97987	0.00107	0.99503	0.0	0.96721	0.00044
ceg	Chamacoco	7912	0.9995	0.0				
cek	Eastern Khumi Chin	7873	1.0	0.0				
ces	Czech	1639384	0.99156	0.00044	0.99951	6e-05	0.98387	0.0
cfm	Falam Chin	38517	0.98848	0.00028			0.85714	0.0
cgc	Kagayanen	7823	0.9995	3e-05				
egg	Chiga	40958	0.98943	0.00011				0.00022
cha	Chamorro	16006	0.996	0.00014		6e-05	0.8381	0.00011
chd	Highland Oaxaca Chontal	8393	0.998	0.0		6e-05		0.00011
che	Chechen	60837	0.995	0.00017				

Table 8: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 4)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
chf	Tabasco Chontal	8213	0.998	6e-05				0.00022
chg	Chagatai	8						
chj	Ojiltán Chinantec	6824	0.72469	0.00091			0.12727	0.00471
chk	Chuukese	377198	0.99701	0.00017			0.97521	0.00011
chn	Chinook jargon	53	0.8	0.0				
cho	Choctaw	124	0.78788	0.0				0.00263
chq	Quiotepec Chinantec	7891	1.0	0.0				0.00044
chr	Cherokee	7982	0.99699	3e-05			0.09677	0.0
chu	Church Slavic	7836	0.4985	0.0				
chv	Chuvash	39476	0.99301	0.00025			0.86154	0.0
chw	Chuwabu	119383	0.997	0.00011		6e-05		
chz	Ozumacín Chinantec	7919	1.0	0.0				
cjk	Chokwe	193952	0.9955	0.00011	0.84493	6e-05	0.92641	0.00033
cjo	Ashéninka Pajonal	7774	0.99354	0.00033				
cjp	Cabécar	7921	0.9995	0.0				
cjs	Shor	1553	0.98929	0.0			0.65217	0.0
cjv	Chuave	7852	0.9995	0.0				
cjy	Jinyu Chinese	18						
ckb	Central Kurdish	138398	0.99007	0.00047	0.99901	0.00011		
cko	Anufo	7882	1.0	0.0				0.00131
ckt	Chukot	1675	0.98619	6e-05				0.00033
cle	Lealao Chinantec	7934	1.0	0.0				
clu	Caluyanun	7850	0.99451	0.00019				
cly	Eastern Highland Chatino	7928	0.77037	0.00217				0.00066
cme	Cerma	7890	0.9995	0.0				0.00011
cmi	Emberá-Chamí	16270	0.6085	0.01438				
cmn	Mandarin Chinese	1073282	0.83808	0.01009		0.05727	0.51064	0.07148
cmo	Central Mnong	16195	0.99699	0.0				0.00011
cnh	Hakha Chin	435869	0.99057	0.00047			0.93023	0.00099
cni	Asháninka	11125	0.80793	0.00228			0.90226	0.00142
cnl	Lalana Chinantec	7911	1.0	0.0				
cnt	Tepetotutla Chinantec	7924	1.0	0.0				
cnw	Ngawn Chin	7929	0.99548	3e-05				0.00055
coe	Koreguaje	7741	0.9995	3e-05				0.00164
cof	Colorado	7555	1.0	0.0			0.74747	0.0
cok	Santa Teresa Cora	18162	0.99449	0.00011				
con	Cofán	7876	0.9985	3e-05				0.00011
cop	Coptic	23773	1.0	0.0				
cor	Cornish	41272	0.99097	0.00017				
cos	Corsican	11141	0.97444	8e-05		0.00017	0.95082	0.00044
cot	Caquinte	7879	0.9975	3e-05			0.96774	0.00022
cpa	Palantla Chinantec	7946	0.9995	0.0				
cpb	Ucayali-Yurúa Ashéninka	7947	0.98448	0.00039				0.00022
cpc	Ajyíninka Apurucayali	7939	0.998	0.0				
cpí	Chinese Pidgin English	7						
cpu	Pichis Ashéninka	7945	0.98754	0.00044			0.89908	0.0
cpy	South Ucayali Ashéninka	6127	0.9937	6e-05				
crh	Crimean Tatar	28216	0.97352	0.00022	0.98902	6e-05	0.97561	0.00033
cri	Sãotomense	2594	0.94133	8e-05		6e-05	0.84404	0.00033
crk	Plains Cree	293	0.86486	0.00011				
crm	Moose Cree	8076	0.9995	0.0				0.00547
crn	El Nayar Cora	23287	0.99451	0.00019				
crq	Iyo'wujwa Chorote	7731	0.36727	0.00954				0.00055
ers	Seselwa Creole French	506502	0.99104	0.00039			1.0	0.0
crt	Iyojwa'ja Chorote	7826	0.55489	0.0192				0.00066
crx	Carrier	7935	0.99151	0.00028				
csb	Kashubian	10947	0.98221	3e-05				0.00011
csk	Jola-Kasa	7918	0.999	0.0		6e-05		
cso	Sochiapam Chinantec	7936	1.0	0.0				
csw	Swampy Cree	476	0.93671	3e-05			0.0	0.00186
esy	Siyin Chin	30034	0.98449	0.00041				
cta	Tataltepec Chatino	7908	0.999	0.0				0.00066
ctd	Tedim Chin	35149	0.88063	0.00564			0.78431	0.0
cto	Emberá-Catío	22638	0.86318	0.00358		6e-05		0.00011
ctp	Western Highland Chatino	7910	0.9995	3e-05				
ctu	Chol	174449	0.9879	0.00011				0.00044
cub	Cubeo	7943	0.9995	3e-05				0.00033
cuc	Usila Chinantec	7901	1.0	0.0				
cui	Cuíba	7882	0.9995	3e-05				
cuk	San Blas Kuna	26510	0.998	3e-05		6e-05		0.00022
cul	Culina	7821	1.0	0.0				
cut	Teutila Cuicatec	7835	0.999	0.0				
cux	Tepeuxila Cuicatec	7954	1.0	0.0				
cwd	Woods Cree	278	0.91304	0.00022				
cwe	Kwere	7950	0.97405	0.00077				

Table 9: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 5)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
cwt	Kuwaataay	7828	1.0	0.0				
cya	Nopala Chatino	7946	0.82102	0.00891				0.00033
cym	Welsh	273301	0.99501	0.00019	0.99951	6e-05	1.0	0.0
czt	Zotung Chin	9478	0.999	3e-05				0.00011
daa	Dangaléat	7839	0.999	3e-05				0.00011
dad	Marik	7726	0.9995	3e-05				
daf	Dan	12719	0.9995	0.0				
dah	Gwahatike	7704	0.999	3e-05				
dak	Dakota	2366	0.99856	0.0				
dan	Danish	3921737	0.96039	0.00173	0.9931	0.00051	0.85135	0.00241
dar	Dargwa	2195	0.99543	3e-05				0.00055
ddg	Fataluku	1603	0.98934	6e-05				0.00077
ddo	Dido	20						
ded	Dedua	10276	0.999	0.0				
des	Desano	7740	1.0	0.0				
deu	German	1800293	0.96193	0.00212	0.99901	0.0	0.98745	0.00011
dga	Southern Dagaare	12612	0.998	3e-05			0.71166	0.00482
dgc	Casiguran Dumagat Agta	7795	0.9995	0.0				
dgi	Northern Dagara	7943	0.9975	3e-05				
dgr	Dogrib	9376	0.9995	0.0				
dgz	Daga	7802	0.9975	0.00011				0.00011
dhg	Dhangu-Djangu	630	1.0	0.0				
dhm	Zemba	7908	0.99649	6e-05		0.00023		0.00022
dhv	Dehu	403863	0.95252	0.00223				0.00514
dig	Digo	7865	0.99449	0.00011				
dik	Southwestern Dinka	33790	0.99551	0.00019	0.99653	6e-05		0.00799
din	Dinka	3290	0.38141	0.0				
dip	Northeastern Dinka	7933	0.98742	0.00017				
diq	Dimli (individual language)	30006	0.997	6e-05		0.00011		0.00109
dis	Dimasa	7955	0.999	3e-05		6e-05		
diu	Diriku	198	0.88889	0.0				
div	Dhivehi	30040	1.0	0.0			0.96774	0.0
dje	Zarma	7899	0.99699	3e-05		6e-05		0.00109
djk	Eastern Maroon Creole	98689	0.99548	3e-05				
djr	Djambarrpuynu	7771	0.9985	8e-05		0.0004		
dks	Southeastern Dinka	10409	0.98705	0.00047		0.00011		
dng	Dungan	944	0.98962	0.0				0.00033
dnj	Dan	15219	1.0	0.0				
dob	Dobu	7854	0.9985	0.0				
dop	Lukpa	7934	1.0	0.0				
dow	Doyayo	7919	0.9995	3e-05				0.00022
drg	Rungus	244	0.82857	0.0				
drt	Drents	40						
dru	Rukai	30027	0.996	0.00011				
dsb	Lower Sorbian	11095	0.97823	0.00025				
dtp	Kadazan Dusun	19197	0.95972	0.00162		6e-05		0.00011
dts	Toro So Dogon	7822	0.9995	0.0				
dua	Duala	52748	0.9975	3e-05				0.00011
due	Umiray Dumaget Agta	7864	0.9985	0.0				
dug	Duruma	7836	0.99499	0.00011				
duo	Dupaninan Agta	7795	0.998	0.0				
dur	Dii	7870	0.9985	3e-05				0.00011
dwr	Dawro	7801	0.99044	8e-05				
dws	Dutton World Speedwords	57	0.46154	0.0				
dww	Dawawa	7876	0.9985	3e-05				
dyi	Djimini Senoufo	7927	1.0	0.0				0.00033
dyo	Jola-Fonyi	9559	0.9985	3e-05			0.97391	0.0
dyu	Dyula	218015	0.95472	0.00234	0.12435	0.01449	0.23188	0.0069
dzo	Dzongkha	6899	0.9843	8e-05	0.9496	0.00585	0.90769	0.0012
ebk	Eastern Bontok	7913	0.9975	3e-05				
efi	Efik	1078995	0.99451	0.00022				0.00755
egl	Emilian	144	0.38889	3e-05		6e-05		
eka	Ekajuk	7942	0.9985	3e-05				
ekk	Standard Estonian	300000	0.98759	0.00055			0.90226	0.00142
eko	Koti	3176	0.99494	0.0				
ell	Modern Greek (1453-)	4450890	0.98862	0.00061	1.0	0.0	0.97908	0.0
emi	Mussau-Emira	4352	0.99753	0.0				
eml	Emiliano-Romagnolo	30000	0.98601	0.00041		0.00045		0.00952
emp	Northern Emberá	8463	0.997	6e-05				
emx	Erromintxela	12						
enb	Markweeta	7871	0.9995	3e-05				
eng	English	10703345	0.63088	0.03212	0.98732	0.00148	0.85294	0.00197
enl	Enlhet	7903	1.0	0.0				
enm	Middle English (1100-1500)	39815	0.9823	0.00017				0.00022
enx	Enxet	7890	1.0	0.0				

Table 10: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 6)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
epo	Esperanto	1161088	0.98377	0.00091	0.99852	0.00017	0.96825	0.00044
eri	Ogea	7908	0.9995	3e-05				
ese	Ese Ejja	7842	0.9995	0.0			0.75	0.00011
esi	North Alaskan Inupiatun	7915	0.992	0.00022				0.00011
esk	Northwest Alaska Inupiatun	7921	0.99249	0.00017				0.00011
est	Estonian	3664155	0.99399	0.00011	1.0	0.0		
esu	Central Yupik	7942	0.9995	3e-05				
eto	Eton (Cameroon)	208	0.95082	3e-05		0.00011		
etr	Edolo	3182	0.99898	0.0				
etu	Ejagham	7900	1.0	0.0				
eus	Basque	938424	0.97363	0.0014	0.99951	0.0	0.91045	0.00131
eve	Even	1149	0.98382	6e-05			0.27869	0.00372
evn	Evenki	116	0.73684	3e-05			0.20755	0.00394
ewe	Ewe	1698872	0.99206	0.00044	1.0	0.0	0.98361	0.00022
ewo	Ewondo	7942	0.9985	0.0				0.00197
ext	Extremaduran	10066	0.96701	6e-05		0.00017		0.00011
eza	Ezaa	30880	0.99353	0.0003				
faa	Fasu	7854	0.9995	3e-05				
fad	Wagi	1147	1.0	0.0				
fai	Faiwol	7941	0.999	3e-05				
fal	South Fali	7916	0.999	3e-05				
fan	Fang (Equatorial Guinea)	22472	0.99043	6e-05				0.00142
fao	Faroese	90577	0.99399	0.00011	0.99951	0.0	0.98305	0.0
fas	Persian	1000000	0.88456	0.00718				
fat	Fanti	54615	0.99448	3e-05			0.97521	0.00022
ffm	Maasina Fulfulde	7872	0.97054	0.00085				0.00044
fij	Fijian	1232612	0.99106	0.00044	0.99951	0.0	1.0	0.0
fil	Filipino	38283	0.81967	0.00022				
fin	Finnish	3909988	0.94857	0.00286	0.99901	0.00011	0.36	0.02452
fkv	Kven Finnish	539	0.67187	3e-05			0.28571	0.0
fmp	Fe'fe'	104	0.92308	0.0				0.00066
fon	Fon	259192	0.9945	0.00017	0.99752	0.0	0.94118	0.00044
for	Fore	7892	1.0	0.0				0.00263
fra	French	2570543	0.74664	0.01862	0.99951	6e-05	0.95238	0.00066
frm	Middle French (ca. 1400-1600)	32						
fro	Old French (842-ca. 1400)	216	0.08333	0.0				
frr	Northern Frisian	12856	0.98633	3e-05		0.00017		0.00022
fry	Western Frisian	131535	0.99651	0.00017			0.99174	0.00011
fub	Adamawa Fulfulde	34642	0.98303	0.00052		0.00017		0.00175
fuc	Pulaar	7						
fud	East Futuna	11205	0.99246	6e-05		0.00028		0.00011
fue	Borgu Fulfulde	4664	0.9815	0.00022		6e-05		
fuf	Pular	12566	0.98898	0.00025			0.04762	0.00044
fuh	Western Niger Fulfulde	7899	0.97049	0.0008				0.00022
fuq	Central-Eastern Niger Fulfulde	7908	0.96761	0.00099				
fur	Friulian	54651	0.94985	0.00072	0.99951	6e-05	0.80272	0.00306
fuv	Nigerian Fulfulde	22406	0.97815	0.0008	0.96843	6e-05	0.76984	0.00241
gaa	Ga	1217812	0.99501	0.00019			0.93846	0.00088
gag	Gagauz	17347	0.99548	3e-05			0.94017	0.0
gah	Alekano	7879	0.999	3e-05				0.00011
gai	Borei	7866	0.9995	3e-05				
gam	Kandawo	7799	0.999	3e-05				0.00011
gaw	Nobonob	7838	1.0	0.0				
gaz	West Central Oromo	335746	0.99301	0.00022	0.99411	0.00068	0.83221	0.00274
gba	Gbaya (Central African Republic)	1010	0.99617	0.0				
gbi	Galela	7722	0.9985	6e-05				
gbm	Garhwali	36						
gbo	Northern Grebo	7939	1.0	0.0				0.00011
gbr	Gbagyi	7660	0.998	0.0				0.00011
gcf	Guadeloupean Creole French	82017	0.98254	0.00055		0.00023		0.00471
gcr	Guianese Creole French	32425	0.98852	0.00036				0.00022
gde	Gude	7901	1.0	0.0				
gdg	Ga'dang	7827	0.9995	0.0				0.00022
gdn	Umanakaina	7737	1.0	0.0				0.00022
gdr	Wipi	7880	1.0	0.0				
geb	Kire	7822	0.9995	3e-05				
gej	Gen	7953	0.9985	6e-05				
gfk	Patpatar	7657	0.9995	0.0				
ghe	Southern Ghale	7953	0.9995	0.0				
ghs	Guhu-Samane	7461	0.998	3e-05				
gid	Gidar	7919	0.9995	0.0				
gil	Gilbertese	428828	0.998	8e-05				
giz	South Giziga	35118	0.9965	0.00011				
gjn	Gonja	30289	0.997	6e-05			0.90476	0.00088
gkn	Gokana	96606	0.98947	0.00022				

Table 11: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 7)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
gkp	Guinea Kpelle	45287	0.54231	0.01537			0.92063	0.00109
gla	Scottish Gaelic	95320	0.99298	0.00011	0.99951	6e-05	0.94574	0.00022
gle	Irish	274216	0.9935	0.00017	1.0	0.0	0.95	0.00088
glg	Galician	343533	0.98495	0.00033	0.99703	0.00011	0.98305	0.00011
glk	Gilaki	10879	0.93362	0.00011		0.00818		
glv	Manx	45473	0.997	0.00011			1.0	0.0
gmv	Gamo	15674	0.99701	0.00014		0.00011		
gnb	Gangte	7955	0.99296	3e-05				0.00022
gnd	Zulgo-Gemzek	7873	0.998	6e-05				
gng	Ngangam	7833	0.999	0.0				
gnn	Gumatj	13043	0.9985	0.0				0.00022
gnw	Western Bolivian Guaraní	17302	0.996	0.00011				
goa	Guro	1971	0.99286	3e-05				0.00142
gof	Gofa	7908	0.98541	0.00022				
gog	Gogo	8642	0.99348	8e-05		0.00062		0.00011
gom	Goan Konkani	89931	0.96933	0.00069		0.00017		0.00044
gor	Gorontalo	7895	0.999	3e-05				
gos	Gronings	5670	0.94176	6e-05				
got	Gothic	3857	0.99652	0.0				
gqr	Gor	7931	0.9975	8e-05				
grc	Ancient Greek (to 1453)	87146	0.98889	3e-05				0.00055
grn	Guarani	62443	0.98069	8e-05	1.0	0.0		
grt	Garo	8033	0.9985	0.0		6e-05		
gso	Southwest Gbaya	7902	0.9995	0.0				
gsw	Swiss German	108513	0.95317	0.00201		0.00011	0.98333	0.00011
gub	Guajajára	30075	0.51632	0.01438				
guc	Wayuu	248890	0.999	6e-05			0.96063	0.00055
gud	Yocoboué Dida	7933	0.9985	6e-05				
gug	Paraguayan Guaraní	384689	0.87191	0.00762			0.81967	0.0
guh	Guahibo	9114	0.95575	8e-05				0.0012
gui	Eastern Bolivian Guaraní	15213	0.99499	8e-05				0.00153
guj	Gujarati	1018488	1.0	0.0	1.0	0.0	1.0	0.0
guk	Gumuz	7906	0.9985	0.0				
gul	Sea Island Creole English	7931	0.9985	6e-05				
gum	Guambiano	8925	0.95248	0.00039				0.00011
gun	Mbyá Guaraní	7929	0.9985	0.0				
guo	Guayabero	7809	1.0	0.0				
guq	Aché	7925	1.0	0.0				
gur	Farefare	71300	0.996	0.00014		6e-05		0.00011
guw	Gun	765163	0.9975	0.00011				0.00011
gux	Gourmanchéma	7927	0.9975	3e-05				0.00022
guz	Gusii	7935	0.99599	6e-05				
gvc	Guanano	7775	0.9995	0.0				
gvf	Golin	7896	0.9985	0.0				
gvl	Gulay	7956	0.9985	3e-05				0.00022
gvn	Kuku-Yalanji	8219	0.9985	6e-05				
gwi	Gwichin	7845	1.0	0.0				
gxx	Wè Southern	24463	0.63256	0.01293				0.00208
gya	Northwest Gbaya	35345	0.99499	0.00011				
gym	Ngäbere	272246	0.99551	0.00017				0.00022
gyr	Guarayu	15925	0.9985	8e-05			0.62745	0.0
hae	Eastern Oromo	7951	0.99649	6e-05				
hag	Hanga	7659	0.9985	6e-05				0.00044
hak	Hakka Chinese	38023	0.99598	0.0				
hat	Haitian	380465	0.98213	0.00069	0.99852	0.00017	0.90706	0.00274
hau	Hausa	401986	0.98854	0.00041	0.95427	0.00551	0.94488	0.0023
hav	Havu	8780	0.98434	0.00014		6e-05		
haw	Hawaiian	7859	0.99497	0.0		6e-05	1.0	0.0
hay	Haya	16371	0.92727	8e-05		6e-05		
hbo	Ancient Hebrew	102471	0.9985	8e-05				0.00011
hbs	Serbo-Croatian	300000	0.99401	0.00019				
hch	Huichol	13394	0.9985	0.0				
hdn	Northern Haida	3						
heb	Hebrew	2021869	0.98328	0.00094	0.99606	0.00045	0.99145	0.00011
heg	Helong	9068	0.999	3e-05				
heh	Hehe	8605	0.9955	0.00011		0.00051		0.00022
her	Herero	154169	0.99549	6e-05		6e-05		
hif	Fiji Hindi	17894	0.98742	0.00017		0.00034		0.00077
hig	Kamwe	7900	0.999	0.0				
hil	Hiligaynon	1762387	0.98665	0.00069		0.00057	1.0	0.0
hin	Hindi	2227417	0.80097	0.01342	0.67444	0.05551	0.62	0.00832
hix	Hixkaryana	7756	1.0	0.0				
hla	Halia	7706	0.999	3e-05				
hlt	Matu Chin	7916	1.0	0.0			0.92982	0.0
hmn	Hmong	163469	1.0	0.0				

Table 12: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 8)

iso639-3	Language	Sentences	GlottLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
hmo	Hiri Motu	1029005	0.97791	0.00113				
hmr	Hmar	50021	0.99449	8e-05				
hne	Chhattisgarhi	60771	0.95589	0.00017	0.90296	0.00256		0.00011
hnj	Hmong Njua	61134	0.99552	0.00022				
hnn	Hanunoo	7931	0.9995	0.0				
hns	Caribbean Hindustani	9791	0.99599	6e-05			0.88889	0.00033
hoc	Ho	1448	0.97035	8e-05				
hop	Hopi	7910	1.0	0.0				
hot	Hote	7646	1.0	0.0				
hra	Hrangkhol	30908	0.9935	0.00017				
hrv	Croatian	1901496	0.80685	0.01081	0.75157	0.03272	0.58824	0.00919
hrx	Hunsrik	46411	0.97319	0.00041				
hsb	Upper Sorbian	31517	0.98205	0.00058			1.0	0.0
hsn	Xiang Chinese	4						
hto	Minica Huitoto	7926	0.9995	3e-05				
hub	Huambisa	15262	0.9985	6e-05				0.00033
hui	Huli	7838	0.9995	0.0				0.00011
hun	Hungarian	4361329	0.9726	0.00138	1.0	0.0	0.82192	0.00285
hus	Huastec	42824	0.98231	0.00019			0.97814	0.00044
huv	Murui Huitoto	7704	1.0	0.0			0.98305	0.0
hvn	San Mateo Del Mar Huave	10600	0.998	0.0				0.00011
hvn	Sabu	7902	0.9995	0.0				
hwc	Hawai'i Creole English	17681	0.85699	0.00283				0.00011
hye	Armenian	1425068	0.9985	6e-05	1.0	0.0	1.0	0.0
hyw	Western Armenian	679292	0.9995	3e-05				
ian	Iatmul	7674	0.999	3e-05				
iba	Iban	210100	0.9995	0.0				
ibg	Ibanag	117204	0.997	8e-05				0.00033
ibo	Igbo	537005	0.99402	0.00025	0.99951	6e-05	0.98718	0.00022
icr	Islander Creole English	7849	0.99699	0.0				
ido	Ido	40359	0.97836	0.00041		6e-05	0.95	0.00011
idu	Idoma	74684	0.97688	0.0005			0.0	0.00011
ifa	Amganad Ifugao	30672	0.98516	0.00072				
ifb	Batad Ifugao	7913	0.98637	0.00011		6e-05		
ife	Ifè	7870	0.9995	0.0		6e-05		0.00011
ifk	Tuwali Ifugao	7699	0.99397	3e-05				
ifu	Mayoyao Ifugao	7819	0.999	0.0		6e-05		0.00022
ify	Keley-I Kallahan	29643	0.99552	0.00022				
ige	Igede	76711	0.9995	0.0				0.00022
ign	Ignaciano	15364	0.9995	3e-05				
igs	Interglossa	32						
iii	Sichuan Yi	60						
ijc	Izon	3785	0.60347	0.00069				0.00022
ike	Eastern Canadian Inuktitut	30996	0.999	3e-05			0.96842	0.00033
ikk	Ika	7953	0.9995	0.0				
ikw	Ikwere	7934	0.999	0.0				
ilb	Ila	6805	0.99094	6e-05				
ile	Interlingue	17750	0.96945	0.00033		6e-05		0.00011
ilo	Iloko	2917828	0.9828	0.00096	0.99951	6e-05	0.90625	0.00131
imo	Imbongu	7720	0.998	6e-05				
ina	Interlingua	58339	0.97512	0.00083		6e-05	0.84892	0.00219
inb	Inga	8000	0.9995	0.0				0.00153
ind	Indonesian	2835053	0.8254	0.01117	0.91929	0.00983	0.72	0.00405
ino	Inoke-Yate	7474	0.9995	0.0				0.00044
iou	Tuma-Irumu	12564	0.9985	0.0				
ipi	Ipili	6181	0.99944	0.0				
iqw	Ikwo	7943	0.98849	0.0003				
iri	Rigwe	7948	1.0	0.0				
irk	Iraqw	7936	0.9985	0.0				
iry	Iraya	7904	0.999	3e-05				
isd	Isnag	7892	0.999	0.0				
ish	Esan	111255	0.97726	0.00033				0.00011
isl	Icelandic	150748	0.9955	0.00011	0.99901	0.00011	0.9916	0.00011
iso	Isoko	656673	0.995	0.00017				0.00022
ita	Italian	2485451	0.91225	0.00523	0.99803	0.00017	0.78947	0.00339
its	Isekiri	11791	0.70713	0.00267				
itv	Itawit	7928	0.9975	3e-05				
ium	Iu Mien	54967	1.0	0.0				0.00099
ivb	Ibatan	7894	0.9975	0.00011				
ivv	Ivatan	7895	0.9975	3e-05				
iws	Sepik Iwam	7956	1.0	0.0				
ixl	Ixil	24719	0.9985	3e-05				
izh	Ingrian	21						
izr	Izere	7945	0.998	8e-05		6e-05		
izz	Izii	7947	0.98445	0.00033				0.00011

Table 13: Performance of GlottLID-M on GlottLID-C test, FLORES-200 and UDHR benchmarks (part 9)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
jac	Popti'	8027	0.998	0.0				0.00011
jae	Yabem	7624	1.0	0.0				
jam	Jamaican Creole English	23393	0.99299	0.00014		6e-05		
jav	Javanese	233182	0.98066	0.00077	0.98346	0.00187	0.97581	0.00044
jbo	Lojban	16508	0.99347	6e-05				0.00099
jbu	Jukun Takum	7940	0.99599	6e-05				0.00044
jdt	Judeo-Tat	9						
jic	Tol	7907	0.9995	0.0				
jiv	Shuar	17084	0.80832	0.00165			0.48387	0.01379
jmc	Machame	7957	0.9975	8e-05		0.00017		
jmx	Western Juxtlahuaca Mixtec	234	0.13636	3e-05				0.00066
jpa	Jewish Palestinian Aramaic	17						
jpn	Japanese	2236956	0.98375	0.00088	1.0	0.0	0.71498	0.01292
jra	Jarai	7944	0.9995	0.0				
jvn	Caribbean Javanese	7750	0.99448	3e-05				
kaa	Kara-Kalpak	53472	0.99298	0.00011			0.96667	0.00022
kab	Kabyle	704680	0.83958	0.00572	0.85967	0.01221		0.00613
kac	Kachin	213841	0.99651	0.00014	1.0	0.0		0.00011
kal	Kalaallisut	248414	0.996	0.00011			0.98305	0.0
kam	Kamba (Kenya)	359666	0.995	0.00017	0.92406	6e-05		
kan	Kannada	733181	0.98377	0.00091	1.0	0.0	1.0	0.0
kao	Xaasongaxango	7909	0.9985	6e-05				0.00033
kap	Bezhta	912	0.99259	0.0				
kaq	Capanahua	7924	1.0	0.0				0.00996
kas	Kashmiri	12946	0.98941	6e-05	0.97674	0.0		
kat	Georgian	734914	0.9975	0.00011	1.0	0.0	1.0	0.0
kaz	Kazakh	386828	0.99452	0.00028	0.99951	0.0	0.96721	0.00033
kbc	Kadiwéu	7861	0.9995	3e-05				
kbd	Kabardian	54247	0.99602	0.00022			0.87692	0.00175
kbh	Camsá	7884	1.0	0.0				
kbm	Iwal	7796	0.9995	3e-05				
kbp	Kabiyè	234402	0.9945	0.00017	0.99901	6e-05	0.85714	0.00219
kbq	Kamano	10526	0.9995	0.0				0.00011
kbr	Kafa	7459	0.9995	3e-05			0.99174	0.00011
kck	Kalanga	23763	0.93843	0.0				0.00033
kdc	Kutu	7929	0.97477	0.00044				0.00011
kde	Makonde	18823	0.99649	6e-05		0.00034	0.59813	0.0
kdh	Tem	1071	0.99408	0.0			0.77551	0.0
kdi	Kumam	7938	0.9965	0.00011				0.00022
kdj	Karamojong	7928	0.99699	3e-05				0.00011
kdl	Tsikimba	7901	0.996	8e-05				
kea	Kabuverdianu	147918	0.9449	0.00226	0.95238	0.0	0.72727	0.00109
kei	Kei	297	0.95556	0.0		6e-05		0.00657
kek	Kekchí	203758	0.99701	0.00014			0.97521	0.00033
ken	Kenyang	7933	0.999	0.0				
ket	Ket	20						
kew	West Kewa	9393	0.99198	0.00017				
kex	Kukna	873	0.97143	0.0				
kez	Kukele	7935	1.0	0.0				
kff	Koya	7934	0.999	0.0				
kgf	Kube	10398	1.0	0.0				
kgk	Kaiwá	7725	0.9985	8e-05				0.00011
kgp	Kaingang	9799	0.9995	0.0				
kha	Khasi	36201	0.98589	0.00017		0.00011	0.97521	0.00022
khk	Halh Mongolian	176464	0.9965	8e-05	1.0	0.0	0.98462	0.00011
khm	Khmer	86506	0.999	6e-05	0.99951	0.0	1.0	0.0
khs	Kasua	7848	0.9985	8e-05				0.00033
khy	Kele (Democratic Republic of Congo)	7911	0.9975	3e-05		6e-05		0.00011
khz	Keapara	7929	0.997	8e-05				
kia	Kim	30712	0.99499	8e-05				
kik	Kikuyu	519523	0.98863	0.00063	0.96562	0.00403		0.00022
kin	Kinyarwanda	1575481	0.96376	0.0016	0.91471	0.00034	0.76336	0.0023
kir	Kirghiz	740492	0.98714	0.00066	1.0	0.0	0.94488	0.00077
kiu	Kirmanjki (individual language)	6						
kix	Khiamniungan Naga	7935	1.0	0.0				
kjb	Q'anjob'al	30505	0.996	0.00011				
kje	Kisar	7827	0.998	3e-05				
kjh	Khakas	43856	0.88244	0.00322			0.83099	0.00252
kjs	East Kewa	7917	0.99301	0.00025				0.00011
kkc	Odoodee	5179	0.99933	0.0				
kki	Kagulu	7957	0.99102	0.0003				0.00077
kkj	Kako	7920	0.999	0.0				0.00044
kkk	Kosarek Yale	3524	0.99907	0.0				
klj	Khalaj	20						
klm	Kalenjin	4550	0.99782	0.0				

Table 14: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 10)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
kvj	Psikye	7908	1.0	0.0				
kvn	Border Kuna	7926	1.0	0.0				
kwd	Kwaio	7876	0.9995	3e-05				
kwf	Kwara'ae	9038	0.9975	3e-05				
kwi	Awa-Cuaiquer	7920	0.999	0.0		6e-05	0.84716	0.0
kwj	Kwanga	7936	1.0	0.0				
kwn	Kwangali	304624	0.99552	0.00022		6e-05		0.00022
kwy	San Salvador Kongo	471082	0.99352	0.00028		0.0004		0.00022
kxc	Konso	7905	0.9985	0.0				
kxm	Northern Khmer	7912	1.0	0.0				
kxw	Konai	7887	1.0	0.0				
kyc	Kyaka	7891	0.998	8e-05				
kyf	Kouya	7797	0.9995	3e-05				
kyg	Keyagana	9517	0.999	6e-05				
kyq	Kenga	7902	1.0	0.0				0.00022
kyu	Western Kayah	7907	0.9995	0.0				
kyz	Kayabí	7550	1.0	0.0				
kze	Kosena	7704	0.9965	0.00011				
kzf	Da'a Kaili	6792	0.99649	6e-05				
kzj	Coastal Kadazan	6159	0.95996	0.00047				0.00033
kzn	Kokola	2619	0.82961	3e-05				0.00011
laa	Southern Subanen	10						
lac	Lacandon	7923	0.999	3e-05				
lad	Ladino	11721	0.96319	0.0		0.90598	0.00044	
lai	Lambya	7869	0.99548	3e-05				
laj	Lango (Uganda)	7941	0.99549	6e-05				0.00011
lam	Lamba	38968	0.98941	6e-05		0.00023		
lao	Lao	26289	0.9995	0.0	1.0	0.0	1.0	0.0
las	Lama (Togo)	7903	0.9995	0.0				
lat	Latin	217775	0.97705	0.00069			0.975	0.00011
lav	Latvian	345532	0.99551	0.00019				
lbb	Label	667	1.0	0.0				
lbe	Lak	218	0.98462	0.0				0.00044
lbj	Ladakhi	7163	1.0	0.0		0.00017		
lbk	Central Bontok	9400	0.996	0.00014				
lch	Luchazi	236	0.64286	0.0		0.00114		0.00011
lcm	Tungag	9544	0.99599	6e-05				
ldi	Laari	61299	0.9935	0.00017		6e-05		
ldn	Láadan	144	0.97872	0.0				
lea	Lega-Shabunda	3823	0.9907	6e-05		0.00011		0.00011
led	Lendu	4500	0.99485	8e-05				0.00022
lee	Lyélé	7873	0.999	3e-05		6e-05		
lef	Lelemi	7901	0.998	0.0				
leh	Lenje	60420	0.99249	0.00017		0.00011		0.00011
lem	Nomaande	7917	0.9995	3e-05				
leu	Kara (Papua New Guinea)	7869	0.9995	0.0				
lew	Ledo Kaili	7859	0.997	8e-05				
lex	Luang	9630	0.9995	0.0				
lez	Lezghian	421	0.98305	3e-05				
lfn	Lingua Franca Nova	22272	0.97358	0.00028				0.00011
lgm	Lega-Mwenga	7945	0.99551	0.00017				
lhi	Lahu Shi	7872	1.0	0.0				0.00022
lhm	Lhomi	7812	0.9995	0.0				
lhu	Lahu	73972	1.0	0.0				
lia	West-Central Limba	7904	1.0	0.0			0.94643	0.0
lid	Nyindrou	9513	1.0	0.0				0.00011
lif	Limbu	15688	1.0	0.0				
lij	Ligurian	36632	0.97681	0.00041	0.99901	6e-05	0.49785	0.0127
lim	Limburgan	141486	0.96436	0.00127	0.99253	0.0		0.00011
lin	Lingala	1856585	0.98325	0.00088	0.99901	0.00011	0.99145	0.00022
lip	Sekpele	7899	0.9995	0.0				
lir	Liberian English	24782	0.53173	0.01958				
lit	Lithuanian	2813062	0.97971	0.00085	0.99951	0.0	0.9375	0.00088
liv	Liv	33						
ljp	Lampung Api	7900	0.99448	3e-05				
lkt	Lakota	22						
llb	Lolo	30215	0.98327	0.00091		0.00023		0.00011
lld	Ladin	1049	0.9589	0.0			0.53465	0.00153
lln	Lele (Chad)	2151	0.90074	6e-05		6e-05		0.0012
lmk	Lamkang	7953	0.998	3e-05				0.00011
lmo	Lombard	62982	0.97	0.00083	0.99554	0.00011		0.00919
lmp	Limbum	7927	0.999	3e-05				
lob	Lobi	7937	0.999	0.0			0.92857	0.00022
loe	Saluan	137	0.86667	0.0				
log	Logo	7844	1.0	0.0				

Table 16: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 12)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
lol	Mongo	7934	0.997	0.00011				
lom	Loma (Liberia)	8918	0.96124	0.00014				
loq	Lobala	3745	0.99573	3e-05				
lou	Louisiana Creole	22						
loz	Lozi	961751	0.99303	0.00033		0.00011	0.84892	0.0
lsi	Lashi	7897	0.9995	0.0				
lsm	Saamia	7940	0.9985	3e-05		6e-05		0.00077
ltg	Latgalian	14697	0.97178	6e-05	0.99653	0.0		
ltz	Luxembourgish	133586	0.98798	0.00028	0.99951	0.0	0.98305	0.0
lua	Luba-Lulua	1138848	0.99353	0.0003	0.99653	6e-05	0.71186	0.00175
lub	Luba-Katanga	651814	0.99552	0.00025				0.00285
lue	Luvale	598110	0.998	8e-05		0.00074	0.99145	0.0
lug	Ganda	297207	0.98406	0.00055	0.99653	0.0	0.9589	0.00066
lun	Lunda	394555	0.9985	3e-05		0.00023	0.81752	0.00033
luo	Luo (Kenya and Tanzania)	562230	0.99155	0.00041	1.0	0.0		0.00088
lus	Lushai	568212	0.99301	0.00025	0.99653	6e-05	0.93548	0.00088
lut	Lushootseed	59	1.0	0.0				
lvs	Standard Latvian	3176411	0.96455	0.00182	0.99655	0.00034	0.94118	0.00164
lwo	Luwo	7810	0.999	3e-05				
lww	Lewo	7830	0.999	6e-05				
lzh	Literary Chinese	17606	0.95639	0.00014				
lzz	Laz	75	0.125	3e-05				
maa	San Jerónimo Tecóatl Mazatec	23769	0.9995	0.0				
mad	Madurese	8060	0.9985	6e-05		0.00028	0.92174	0.0
maf	Mafa	7943	0.998	3e-05				
mag	Magahi	6208	0.96204	3e-05	0.95459	0.00136	0.75385	0.00044
mah	Marshallese	532466	0.99651	0.00019			0.96063	0.00055
mai	Maithili	32796	0.95805	0.00017	0.97366	6e-05	0.83099	0.0
maj	Jalapa De Díaz Mazatec	7883	0.999	3e-05				
mak	Makasar	7860	0.9985	0.0				
mal	Malayalam	737267	1.0	0.0	1.0	0.0	1.0	0.0
mam	Mam	244791	0.99601	0.00017			0.93913	0.00022
maq	Chiquihuitlán Mazatec	7930	0.999	3e-05				
mar	Marathi	1382828	0.9896	0.00055	1.0	0.0	0.99174	0.00011
mas	Masai	31306	0.999	0.0				0.00055
mau	Huautla Mazatec	197845	0.9985	6e-05				0.00372
mav	Sateré-Mawé	15290	0.85929	0.00171				0.0023
maw	Mampruli	7890	0.999	6e-05				0.00296
max	North Moluccan Malay	427	0.9011	0.0				
maz	Central Mazahua	9655	0.93082	0.00055			0.83582	0.00186
mbb	Western Bukidnon Manobo	7852	0.9985	3e-05				
mbc	Macushi	9275	0.92423	0.00022		6e-05		0.00022
mbd	Dibabawon Manobo	7818	0.9945	0.00014				
mbf	Baba Malay	7930	0.99449	8e-05		6e-05		
mbh	Mangseng	7897	0.9995	3e-05				
mbi	Ilianen Manobo	7894	0.9985	6e-05				
mbj	Nadëb	7842	1.0	0.0				
mbl	Maxakalí	7908	1.0	0.0				
mbs	Sarangani Manobo	9330	1.0	0.0				
mbt	Matigsalug Manobo	7888	0.9995	3e-05				0.00044
mca	Maca	7939	1.0	0.0				
mcb	Machiguenga	7743	0.999	3e-05				0.00033
mcd	Sharanahua	7472	0.9995	3e-05			0.97521	0.00022
mcf	Matsés	7847	1.0	0.0			1.0	0.0
mck	Mbunda	157207	0.99451	0.00022		0.00119		0.00788
mcn	Masana	30987	0.99651	0.00014		6e-05		
mco	Coatlán Mixe	230569	0.98645	0.00028				0.00449
mcp	Makaa	13175	0.999	3e-05		6e-05		0.00033
mcq	Ese	7924	1.0	0.0				
mcu	Cameroon Mambila	7894	0.9995	0.0				
mda	Mada (Nigeria)	7931	0.999	0.0				
mdf	Moksha	86	0.5	3e-05				
mdy	Male (Ethiopia)	37003	1.0	0.0				
med	Melpa	7510	1.0	0.0				
mee	Mengen	7874	0.9995	3e-05				
meh	Southwestern Tlaxiaco Mixtec	1543	0.10196	0.00014				0.00022
mej	Meyah	7842	0.999	0.0				
mek	Mekeo	7799	0.999	3e-05				
men	Mende (Sierra Leone)	11481	0.99649	3e-05			0.9771	0.00033
meq	Meray	7903	0.998	8e-05				
mer	Meru	3946	0.95789	0.0		0.00011		
meu	Motu	119511	0.98073	0.00014				
mev	Mano	390	0.95726	3e-05				0.00011
mfa	Pattani Malay	319	0.925	0.0				0.00011
mfe	Morisyen	445479	0.99006	0.00044				0.00022

Table 17: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 13)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
mfh	Matal	7949	1.0	0.0				
mfi	Wandala	7930	1.0	0.0				0.00011
mfk	North Mofu	7937	0.99346	3e-05				
mfq	Moba	9584	0.9965	8e-05			0.88722	0.00164
mfy	Mayo	10521	0.99548	3e-05		0.00045		0.00011
mfz	Mabaan	7874	1.0	0.0				
mgc	Morokodo	3827	0.99911	0.0				
mgd	Makhuwa-Meetto	78022	0.997	8e-05		0.0004		0.00033
mgm	Mambae	209	0.68421	6e-05				0.00011
mgo	Meta'	111	0.92	0.0				0.00022
mgr	Mambwe-Lungu	164338	0.99007	0.00047		0.00182		0.00022
mgv	Matengo	70	0.6	0.0				
mhi	Ma'di	7941	0.9985	3e-05				
mhl	Mauwake	7578	0.999	3e-05				
mhr	Eastern Mari	22422	0.98593	0.00025				0.00022
mhw	Mbukushu	609	0.97727	0.0		0.00028		0.00011
mhx	Maru	7918	0.9995	0.0				
mhy	Ma'anyan	7889	0.99448	3e-05				
mib	Atatláhuca Mixtec	7887	1.0	0.0				
mic	Mi'kmaq	7923	0.9995	0.0			0.15625	0.0
mie	Ocotepc Mixtec	7899	1.0	0.0				
mif	Mofu-Gudur	7875	0.9985	3e-05				
mig	San Miguel El Grande Mixtec	7940	0.9995	0.0				0.00011
mih	Chayuco Mixtec	7897	0.998	0.00011				
mik	Mikasuki	104	0.72727	0.0				
mil	Peñoles Mixtec	7894	0.9995	3e-05				0.00022
min	Minangkabau	132106	0.99248	0.00014	0.6616	0.00017	0.87591	0.00175
mio	Pinotepa Nacional Mixtec	7914	0.9985	6e-05				
miq	Miskito	86121	0.97908	0.00069			0.832	0.0
mir	Isthmus Mixe	7505	1.0	0.0				
mit	Southern Puebla Mixtec	7779	0.999	3e-05				
miy	Ayutla Mixtec	7915	1.0	0.0				
miz	Coatzacoapan Mixtec	7953	1.0	0.0				0.00011
mjc	San Juan Colorado Mixtec	7915	0.9995	0.0				
mjj	Karbi	7953	0.9995	0.0				
mkd	Macedonian	809994	0.99253	0.00033	1.0	0.0	0.99174	0.0
mkf	Mokole	7866	0.9995	0.0				
mkn	Kupang Malay	9069	0.998	3e-05				
mks	Silacayoapan Mixtec	7949	0.9985	3e-05				
mkz	Makasae	1720	0.98266	0.0		6e-05		0.00033
mlg	Malagasy	30062	1.0	0.0				
mlh	Mape	7925	0.9985	6e-05				
mlp	Bargam	7729	1.0	0.0		0.00017		0.00011
mlt	Maltese	2281035	0.97815	0.0008	0.97401	0.00307	0.77419	0.00383
mlu	To'abaita	1036	0.99375	3e-05		6e-05		0.00011
mmn	Mamanwa	7829	0.999	3e-05				
mmo	Mangga Buang	7937	0.9985	3e-05				
mmx	Madak	10379	0.999	0.0				
mna	Mbula	13167	0.998	3e-05				
mnb	Muna	7924	1.0	0.0				0.00022
mnc	Manchu	2						
mnf	Mundani	7866	0.9995	0.0				
mni	Manipuri	48249	0.9899	0.0	0.99901	6e-05		
mnk	Mandinka	7913	0.9985	3e-05				0.00011
mnr	Mono (USA)	3						
mnw	Mon	9						
mnx	Manikion	7376	0.9995	3e-05				
mny	Manyawa	50297	0.97712	0.00017				
moa	Mwan	7939	0.9995	0.0				
moc	Mocoví	16176	0.9995	3e-05				
mog	Mongondow	7903	1.0	0.0				
moh	Mohawk	953	0.99678	0.0				
mon	Mongolian	102788	0.98521	0.0008				
mop	Mopán Maya	8965	0.999	0.0				
mor	Moro	7935	1.0	0.0			0.9916	0.0
mos	Mossi	626622	0.9925	0.00019	0.98138	0.0	0.97015	0.00044
mox	Molima	7830	0.998	6e-05				
mpg	Marba	7909	0.9985	3e-05				
mph	Maung	598	1.0	0.0				
mpm	Yosondúa Mixtec	7900	0.999	6e-05				0.00011
mpp	Migabac	3959	1.0	0.0				
mps	Dadibi	30278	0.9995	0.0				
mpt	Mian	7692	0.999	3e-05				0.00241
mpx	Misima-Panaeati	8788	0.998	3e-05				0.00022
mqb	Mbuko	7873	0.9995	0.0				

Table 18: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 14)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
mqj	Mamasa	8069	0.992	0.00022				0.00011
mqy	Manggarai	7953	0.9985	3e-05				
mrq	Mising	6373	0.9995	0.0				0.00022
mri	Maori	79437	0.98948	0.00025	0.99901	6e-05	0.8227	0.00022
mrj	Western Mari	10083	0.99041	0.0				0.00011
mrq	North Marquesan	1007	0.96774	0.0		6e-05		0.00011
mrw	Mangareva	187	0.8	0.0				
mrw	Maranao	7932	0.9985	3e-05				
msa	Malay (macrolanguage)	53819	0.998	3e-05		6e-05		0.00011
msb	Masbateny	7900	0.99549	8e-05				
msc	Sankaran Maninka	1783	0.98641	6e-05				0.00077
mse	Musey	7917	0.9975	3e-05				
msk	Mansaka	7775	0.99101	0.00028				
msm	Agusan Manobo	7776	0.995	0.00014				
msy	Aruamu	7694	0.9995	3e-05				
mta	Cotabato Manobo	7857	1.0	0.0				
mtg	Una	7834	0.999	0.0				
mti	Maiwa (Papua New Guinea)	7899	0.99699	3e-05				
mtj	Moskona	7846	0.9985	6e-05				
mtu	Totontepec Mixe	7906	1.0	0.0			0.0	0.00088
mtp	Wichí Lhamtés Nocten	7934	1.0	0.0				0.00011
mua	Mundang	7908	0.9995	0.0				
mug	Musgu	30824	0.99451	0.00019				
muh	Mündü	7469	1.0	0.0				
mur	Murle	7816	0.999	0.0				0.00011
mus	Creek	598	0.9172	8e-05				
mux	Bo-Ung	7692	0.999	3e-05				
muy	Muyang	7876	0.9995	3e-05				0.00011
mva	Manam	7947	0.999	0.0				
mvn	Minaveha	7827	0.99699	0.0				
mvp	Duri	7814	0.996	0.00011				
mvv	Tagal Murut	28						
mwc	Are	1150	0.99342	3e-05				
mwf	Murrinh-Patha	316	1.0	0.0				
mwf	Mirandese	33797	0.99247	8e-05				0.00033
mwm	Sar	30621	0.999	6e-05				
mwn	Nyamwanga	54496	0.99347	6e-05		0.0004		0.00011
mwp	Kala Lagaw Ya	4301	0.9984	3e-05				
mwq	Mün Chin	7927	1.0	0.0				0.00022
mwv	Mentawai	7901	0.999	3e-05				
mww	Hmong Daw	8021	0.99346	0.0				
mxh	Tezoatlán Mixtec	7938	1.0	0.0				0.00022
mxp	Tlahuitoltepec Mixe	7924	0.9995	0.0				0.00011
mxq	Juquila Mixe	7933	1.0	0.0				0.00011
mxt	Jamiltepec Mixtec	7916	0.9975	3e-05				
mxv	Metlatónoc Mixtec	141566	0.99151	0.00028			0.14925	0.0
mya	Burmese	498977	0.998	0.00011	1.0	0.0	0.66292	0.00646
myb	Mbay	7908	0.9975	3e-05				0.00011
myk	Mamara Senoufo	7920	0.999	3e-05				
myu	Mundurukú	7683	0.9995	3e-05				
myv	Erzya	18314	0.992	0.00022				
myw	Muyuw	6727	1.0	0.0				
myx	Masaaba	7954	0.999	0.0				
myy	Macuna	7837	0.9995	0.0				
mza	Santa María Zacatepec Mixtec	7940	1.0	0.0				0.00088
mzh	Wichí Lhamtés Güisnay	29905	0.996	0.00014				0.00011
mzk	Nigeria Mambila	7917	0.9995	0.0				
mzl	Mazatlán Mixe	7907	1.0	0.0				0.00011
mzm	Mumuye	7945	1.0	0.0				
mzn	Mazanderani	30000	0.96612	0.00019		0.00295		
mzw	Deg	7889	0.999	6e-05				0.00077
mzz	Maiadomu	652	1.0	0.0				
nab	Southern Nambikuára	7609	1.0	0.0				
naf	Nabak	7692	0.9995	3e-05				0.00011
nah	Nahuatl languages	212	0.68293	3e-05				0.00011
nak	Nakanai	7892	0.9995	0.0				
nan	Min Nan Chinese	37894	1.0	0.0				
nan	Min Nan Chinese	37894	1.0	0.0			0.0	0.00011
nap	Neapolitan	10002	0.97646	0.0				
naq	Khoekhoe	106437	0.9995	0.0				
nas	Naasioi	7985	1.0	0.0				
nau	Nauru	11						
nav	Navajo	91313	0.999	6e-05			0.9916	0.00011
naw	Nawuri	7948	1.0	0.0				
nba	Nyemba	162410	0.98861	0.00058		0.00227		

Table 19: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 15)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
nbc	Chang Naga	7899	0.998	6e-05				
nbe	Konyak Naga	7951	0.9995	0.0				
nbl	South Ndebele	238555	0.9679	0.0008			0.0	0.00055
nbq	Nggem	3714	1.0	0.0				0.00033
nbu	Rongmei Naga	30767	0.99198	0.00017				
nca	Iyo	7866	0.999	3e-05				
nch	Central Huasteca Nahuatl	191991	0.97793	0.00116				0.00668
ncj	Northern Puebla Nahuatl	192101	0.99303	0.0003				0.00033
ncl	Michoacán Nahuatl	7934	0.998	6e-05				
nct	Chothe Naga	7936	0.998	3e-05				
ncu	Chumburung	7654	1.0	0.0				
ncx	Central Puebla Nahuatl	161081	0.97718	0.00085				0.00011
nde	Ndau	197046	0.99601	0.00019		6e-05		0.00011
nde	North Ndebele	234610	0.96552	0.00096		0.00273		0.00624
ndh	Ndali	743	0.96257	3e-05		0.00068		0.00011
ndi	Samba Leko	7924	1.0	0.0				
ndj	Ndamba	7955	0.9965	0.00011		6e-05		0.00022
ndo	Ndonga	481932	0.92503	0.0005		0.00136	0.86765	0.00197
ndp	Ndo	7946	1.0	0.0				
nds	Low German	128598	0.98218	0.00077			1.0	0.0
ndz	Ndogo	7937	0.9995	0.0				
neb	Toura (Côte d'Ivoire)	7864	1.0	0.0				
nep	Nepali (macrolanguage)	137937	0.99649	0.0				
new	Newari	30017	0.97093	0.00025		0.00051		0.00011
nfa	Dhao	7649	1.0	0.0				
nfr	Nafaanra	7930	0.9985	0.0				
ngb	Northern Ngbandi	3998	0.99164	3e-05				0.00011
ngc	Ngombe (Democratic Republic of Congo)	7941	0.99601	0.00017				
ngl	Lomwe	177993	0.97725	0.00094		6e-05		0.00033
ngp	Ngulu	7956	0.97885	0.00039		0.00011		
ngt	Kriang	19						
ngu	Guerrero Nahuatl	118903	0.9935	0.00017				0.00011
nhd	Chiripá	15822	0.83343	0.00033				
nhe	Eastern Huasteca Nahuatl	7941	0.94	0.00165				
nhg	Tetelcingo Nahuatl	7906	0.998	0.0				
nhi	Zacatlán-Ahuacatlán-Tepetzintla Nahuatl	7911	0.99749	0.0				
nhk	Isthmus-Cosoleacaque Nahuatl	4466	0.8986	0.00014				0.00055
nho	Takuu	7908	0.9995	3e-05				
nhr	Naro	7906	1.0	0.0				
nhu	Noone	7919	0.999	3e-05				
nhw	Western Huasteca Nahuatl	7942	0.93259	0.00146				
nhx	Isthmus-Mecayapan Nahuatl	9954	0.999	6e-05				
nhy	Northern Oaxaca Nahuatl	7931	0.996	0.00011				
nia	Nias	205435	0.9985	6e-05				0.00022
nif	Nek	3713	1.0	0.0				
nii	Nii	7794	1.0	0.0				
nij	Ngaju	7879	0.99399	0.00011				
nim	Nilamba	7948	0.998	3e-05		6e-05		
nin	Ninzo	7915	0.9995	3e-05				
niq	Nandi	35203	0.9975	8e-05				0.00427
niu	Niuean	565376	0.9975	6e-05			1.0	0.0
niv	Gilyak	20						
niy	Ngiti	7950	1.0	0.0				
njb	Nocte Naga	7888	0.9995	3e-05				
njm	Angami Naga	30987	0.99699	0.0				
njn	Liangmai Naga	30075	0.99502	0.00025				
njo	Ao Naga	30939	0.997	6e-05			0.95312	0.0
njz	Nyishi	7935	0.9995	0.0				0.00142
nka	Nkoya	73	0.36364	0.0				
nki	Thangal Naga	7955	0.98123	0.00011				0.00055
nko	Nkonya	7825	0.9995	3e-05				
nla	Ngombale	312	0.92105	3e-05				0.00022
nlc	Nalca	7873	1.0	0.0				
nld	Dutch	4208335	0.76911	0.01612	0.99803	0.00023	0.70238	0.00547
nlv	Orizaba Nahuatl	14						
nma	Maram Naga	7934	1.0	0.0				
nmf	Tangkhuil Naga (India)	30939	0.996	8e-05		6e-05		
nmh	Monsang Naga	7951	0.9985	0.0				
nmo	Moyon Naga	7950	0.9985	6e-05				0.00044
nmw	Nimoa	1220	1.0	0.0				
nmz	Nawdm	7874	0.999	0.0				0.00033
nmb	Nande	80966	0.98394	0.00033		0.00386		0.00109
nng	Maring Naga	7955	1.0	0.0				
nnh	Ngiemboon	7773	1.0	0.0				
nnl	Northern Rengma Naga	30056	0.9925	0.00022				

Table 20: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 16)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
nno	Norwegian Nynorsk	463877	0.98089	0.00036	0.98507	0.00045	0.95868	0.00033
nnp	Wancho Naga	7948	1.0	0.0				0.00011
nnq	Ngindo	7940	0.99649	6e-05				
nnw	Southern Nuni	7874	1.0	0.0				
noa	Woun Meu	15760	0.9995	0.0				0.00011
nob	Norwegian Bokmål	2890508	0.96898	0.00129	0.98185	0.00148	0.98462	0.00022
nog	Nogai	9743	0.99649	3e-05				
non	Old Norse	21						
nop	Numanggang	12584	0.9985	6e-05				
nor	Norwegian	1000000	0.997	6e-05				
not	Nomatsiguenga	7819	0.998	3e-05			0.97391	0.0
nou	Ewage-Notu	7758	0.9995	0.0				0.00033
nov	Novial	430	0.71579	0.00011				
nph	Phom Naga	7947	0.999	0.0				
npi	Nepali (individual language)	99103	0.98559	0.00058	0.99104	0.00011	0.98214	0.0
npl	Southeastern Puebla Nahuatl	14454	0.99601	0.00017				
npo	Pochuri Naga	7954	0.999	3e-05				
npv	Napu	7750	0.9985	3e-05				
nre	Southern Rengma Naga	30149	0.998	8e-05				
nrf	Jërriais	1066	0.98339	0.0				0.00022
nri	Chokri Naga	7954	0.99498	6e-05				
nsa	Sangtam Naga	7931	1.0	0.0				
nse	Nsenga	106988	0.99047	0.00017		0.0004		0.00011
nsm	Sumi Naga	30168	0.9965	0.00011				
nsn	Nehan	7887	0.999	3e-05				
nso	Pedi	2010451	0.99253	0.00033	0.99704	0.00028	0.86957	0.00197
nss	Nali	2204	0.99849	0.0				
nst	Tase Naga	30918	0.9975	3e-05				
nsu	Sierra Negra Nahuatl	7903	0.99599	3e-05				
ntp	Northern Tepehuan	7753	1.0	0.0				
ntr	Delo	7896	0.9995	0.0				0.00088
nus	Nuer	16408	0.9985	0.0	0.99951	0.0		0.00011
nuy	Nunggubuyu	8201	0.998	3e-05				
nvu	Namia	7255	1.0	0.0				
nwb	Nyabwa	7725	0.9985	0.0				
nwi	Southwest Tanna	7454	0.9995	0.0				
nwx	Middle Newar	11272	0.99649	6e-05				
nxm	Ngando (Democratic Republic of Congo)	7948	0.9975	6e-05				
nya	Nyanja	2582911	0.93803	0.0036	0.99753	0.00023	0.96414	0.00099
nyf	Giryama	8144	0.98947	0.00022		6e-05		
nyk	Nyaneka	297246	0.98166	0.00074		0.0046		0.00066
nyl	Nyankole	236252	0.98166	0.00074		6e-05	0.85938	0.0
nyo	Nyoro	7946	0.98286	0.00025				
nyu	Nyungwe	176938	0.99052	0.00033				
nyy	Nyakyusa-Ngonde	110073	0.99102	0.0003		0.00034		0.00055
nzb	Njebi	70	0.6	0.0		6e-05		0.00011
nzi	Nzima	384511	0.9985	8e-05			1.0	0.0
nzm	Zeme Naga	30978	0.9975	3e-05				
oar	Old Aramaic (up to 700 BCE)	22						
obo	Obo Manobo	7651	0.9975	3e-05				
oci	Occitan (post 1500)	135269	0.98549	0.00039	0.99951	6e-05	0.41101	0.0
ofs	Old Frisian	13						
ogo	Khana	61553	0.999	6e-05				
ojb	Northwestern Ojibwa	36949	0.70851	0.01862			0.81481	0.0
oji	Ojibwa	7989	0.999	0.0				
ojs	Severn Ojibwa	7937						0.00066
oke	Okpe (Southwestern Edo)	64083	0.9843	8e-05				0.00011
okv	Orokaiva	7780	1.0	0.0				0.00011
old	Mochi	7955	0.98808	0.00052		0.00023		0.00044
omw	South Tairora	9414	0.9995	0.0				
ong	Olo	7881	0.9995	3e-05				
ons	Ono	15076	1.0	0.0				0.00011
ood	Tohono O'odham	7563	0.99699	0.0		6e-05		
opm	Oksapmin	7657	0.999	0.0				
ori	Oriya (macrolanguage)	100397	0.9995	0.0				
orm	Oromo	489160	0.9995	3e-05		6e-05		
orv	Old Russian	1307	0.94602	3e-05				
ory	Odia	122527	0.9995	3e-05	1.0	0.0		
osp	Old Spanish	23						
oss	Ossetian	630164	0.99502	0.00028			0.5	0.00679
ota	Ottoman Turkish (1500-1928)	2287	0.81188	8e-05		0.00267		0.00011
ote	Mezquital Otomi	58835	0.92369	0.00237			0.0	0.00372
otm	Eastern Highland Otomi	7870	1.0	0.0				
otn	Tenango Otomi	7870	1.0	0.0				0.00011
otq	Querétaro Otomi	7943	1.0	0.0				

Table 21: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 17)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
ots	Estado de México Otomi	13242	0.95737	0.00041				0.0046
otw	Ottawa	108	1.0	0.0				0.00044
oym	Wayampi	7693	0.9995	3e-05				
ozm	Koonzime	7891	1.0	0.0				
pab	Parecís	7936	0.9995	3e-05				
pad	Paumarí	7771	1.0	0.0				
pag	Pangasinan	1255155	0.99452	0.00025	0.99852	0.0		0.00033
pah	Tenharim	7699	0.9995	0.0				
pam	Pampanga	19422	0.98532	6e-05			1.0	0.0
pan	Panjabi	722260	1.0	0.0	1.0	0.0	1.0	0.0
pao	Northern Paiute	7028	0.999	6e-05				
pap	Papiamento	1601687	0.97782	0.00102	0.99069	0.00102	0.79195	0.00339
pau	Palauan	181209	0.99751	0.00014			0.97436	0.0
pbb	Páez	12673	0.81626	0.00333			0.7125	0.00482
pbz	Patamona	7939	0.9995	0.0				
pbi	Parkwa	7849	1.0	0.0				0.00011
pbl	Mak (Nigeria)	7924	0.38695	0.00242				0.00011
pbt	Southern Pashto	63256	0.96663	0.00061	0.81486	0.00051		0.00109
pcd	Picard	1348	0.89552	0.0				
pck	Paite Chin	30968	0.97284	0.0011				0.00033
pcm	Nigerian Pidgin	8364	0.97864	0.00011			0.71739	0.0
pdz	Pennsylvania German	11954	0.94379	0.00066				
pdz	Plautdietsch	152305	0.998	8e-05				
pem	Phende	9968	0.99649	3e-05		0.00034		0.00044
pes	Iranian Persian	2814370	0.80032	0.01356	0.57435	0.08493	0.65922	0.00668
pfe	Pere	10404	0.9995	3e-05				0.00044
pfl	Pfaelzisch	10003	0.96516	0.00028				0.00011
phm	Phimbi	45602	0.98943	0.00011		0.00017		0.00011
phn	Phoenician	15						
pib	Yine	7937	0.999	0.0				
pid	Piaroa	7255	0.47033	0.00085				
pio	Piapoco	7655	1.0	0.0				
pir	Piratapuyo	7740	0.9995	3e-05				
pis	Pijin	703022	0.998	0.00011			0.9916	0.0
pjt	Pitjantjatjara	10949	1.0	0.0				0.00547
pkb	Pokomo	7824	0.9985	6e-05				0.00022
plg	Pilagá	8729	1.0	0.0				0.00011
pli	Pali	2						
pls	San Marcos Tlacoyalco Popoloca	23439	0.86827	0.00286				0.00011
plt	Plateau Malagasy	202954	0.99552	0.00022	0.99852	0.0	0.98182	0.0
plu	Palikúr	8749	0.999	0.0		0.00011		0.0012
plw	Brooke's Point Palawano	7940	0.9995	3e-05				
pma	Paama	15067	0.999	6e-05				
pmf	Pamona	7956	0.9985	0.0				
pms	Piemontese	30824	0.98993	8e-05				0.00033
pmx	Poumei Naga	30182	0.99549	6e-05				
pnb	Western Panjabi	300035	0.9762	0.0003		0.00102	0.65969	0.00668
pne	Western Penan	7928	0.999	0.0				
poe	San Juan Atzingo Popoloca	19275	0.9995	0.0				
poh	Poqomchi'	41239	0.998	0.0				0.00011
poi	Highland Popoloca	17342	0.7267	0.00613				0.00011
pol	Polish	4592867	0.9621	0.00187	0.9907	0.00108	0.7362	0.00471
pon	Pohnpeian	431877	0.997	0.00011			1.0	0.0
por	Portuguese	5403043	0.82411	0.01166	0.99655	0.0004	0.84806	0.00471
pot	Potawatomi	2078	1.0	0.0				
pov	Upper Guinea Crioulo	28501	0.99147	0.00014		0.00233	0.96552	0.0
poy	Pogolo	7955	0.9975	8e-05				
ppk	Uma	7760	0.999	3e-05				
ppl	Pipil	59	0.4	0.0			0.42105	0.0
ppo	Folopa	7679	1.0	0.0				
pps	San Luís Temalacayuca Popoloca	7950	0.9995	3e-05				0.00055
prf	Paranan	7865	0.9985	0.0				
prg	Prussian	1088	0.96067	0.0				
pri	Paicé	6986	1.0	0.0				
prk	Parauk	8909	0.63062	0.0014				
prs	Dari	93926	0.80441	0.00083	0.14688	0.0192	0.0	0.00547
pse	Central Malay	7905	0.9985	0.0				
ptp	Patep	7918	0.999	0.0				
ptu	Bambam	7808	0.99649	6e-05				0.00077
pua	Western Highland Purepecha	7950	0.52827	0.00077				
pus	Pushto	30046	0.88156	3e-05				
pwg	Gapapaiwa	7914	0.99551	0.00019				
pww	Pwo Northern Karen	30880	1.0	0.0				
qub	Huallaga Huánuco Quechua	64459	0.81356	0.00715		6e-05		0.02704
quc	K'iche'	173500	0.99402	0.00025			0.95575	0.00011

Table 22: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 18)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
que	Quechua	694846	0.97263	0.0014			0.9916	0.0
quf	Lambayaque Quechua	8072	0.98582	3e-05		6e-05		0.00394
qug	Chimborazo Highland Quichua	160594	0.84767	0.00787			0.0375	0.0
quh	South Bolivian Quechua	46618	0.81818	0.00861		0.00028	0.92174	0.00044
quil	North Bolivian Quechua	15852	0.77368	0.00223		6e-05		0.00011
qup	Southern Pastaza Quechua	7700	0.99701	0.00014				0.0093
qus	Santiago del Estero Quichua	6856	0.99649	0.0				0.00208
quw	Tena Lowland Quichua	33203	0.67937	0.01062				0.00055
quy	Ayacucho Quechua	457040	0.97855	0.00066	0.75904	0.0	0.67403	0.00646
quz	Cusco Quechua	347402	0.9414	0.00281		0.02176	0.54822	0.00898
qva	Ambo-Pasco Quechua	7824	0.98297	0.00041			0.0	0.00011
qvc	Cajamarca Quechua	7799	0.998	6e-05		6e-05	0.92035	0.00033
qve	Eastern Apurímac Quechua	7924	0.98167	0.0				
qvh	Huamálíes-Dos de Mayo Huánuco Quechua	7304	0.98799	0.0003			0.0	0.00022
qvi	Imbabura Highland Quichua	227687	0.97923	0.00088				0.00055
qvm	Margos-Yarowilca-Lauricocha Quechua	7299	0.9824	0.00033			0.15385	0.0
qvn	North Junín Quechua	7948	0.9945	0.00017			0.31884	0.0
qvo	Napo Lowland Quechua	7853	0.99198	0.00017				0.00011
qvs	San Martín Quechua	7872	0.99649	3e-05				0.00252
qvw	Huaylla Wanca Quechua	16232	0.77036	0.00239				0.00055
qvz	Northern Pastaza Quichua	8730	0.94858	6e-05				0.00011
qwh	Huaylas Ancash Quechua	7834	0.997	6e-05			0.48276	0.00066
qxh	Panao Huánuco Quechua	7727	0.99247	0.00011				
qxl	Salasaca Highland Quichua	7876	0.9995	3e-05				
qxn	Northern Conchucos Ancash Quechua	7937	0.98087	0.00033			0.03333	0.00011
qxo	Southern Conchucos Ancash Quechua	7421	0.97364	0.00088				
qxq	Qashqa'í	14						
qxr	Cañar Highland Quichua	9639	0.9646	0.00025				
qya	Quenya	144	0.28571	3e-05				
rad	Rade	30874	0.9975	6e-05				
rai	Ramoaina	7828	0.9995	0.0				
rap	Rapanui	16603	0.57556	0.00776				0.00011
rar	Rarotongan	920894	0.98958	0.0005			0.99174	0.00011
rcf	Réunion Creole French	13290	0.98891	8e-05		0.00045		0.00022
rhg	Rohingya	3850	0.98712	3e-05		0.00028		0.00142
ria	Riang (India)	7947	0.9985	0.0				
rif	Tarifit	227	0.43137	6e-05				
rim	Nyaturu	7954	0.9995	3e-05				
rkb	Rikbaktsa	7766	0.999	3e-05				
rnc	Carpathian Romani	8938	0.99649	6e-05				
rme	Angloromani	168	0.76923	0.0				
rml	Baltic Romani	4828	0.73838	0.00028		6e-05		0.00077
rmm	Balkan Romani	338459	0.997	8e-05		6e-05	0.86636	0.00011
rmo	Sinte Romani	11235	0.99749	0.0		0.00011		
rmq	Caló	2273	0.99541	0.0				
rmy	Vlax Romani	96254	0.91895	0.00184		6e-05		0.00394
rnd	Ruund	29279	0.999	3e-05		0.00011		
rng	Ronga	77778	0.9853	3e-05				0.00044
rnl	Ranglong	10406	0.994	0.00017				
roh	Romansh	30149	0.9945	0.00017			0.99268	0.0
rom	Romany	876	0.44602	0.00828				
ron	Romanian	1542662	0.98327	0.00091	0.99951	0.0	0.80992	0.00493
roo	Rotokas	7890	1.0	0.0				
rop	Kriol	29167	0.998	6e-05				
rro	Waima	7946	0.999	3e-05				0.00011
rtm	Rotuman	11052	0.9985	0.0				0.00011
rub	Gungu	7912	0.999	0.0				
rue	Rusyn	10117	0.95084	8e-05				
ruf	Luguru	7951	0.99649	6e-05		6e-05		
run	Rundi	1361196	0.96652	0.00094	0.92541	0.00881	0.87591	0.00186
rup	Macedo-Romanian	2219	0.99573	3e-05			0.125	0.0
rus	Russian	9074266	0.65357	0.02904	0.99901	6e-05	0.43321	0.01718
rwo	Rawa	15237	0.9995	3e-05				
ryu	Central Okinawan	42						
sab	Buglere	7507	0.999	0.0				
sag	Sango	1017526	0.99552	0.00025	0.99901	0.0	0.81553	0.0
sah	Yakut	115824	0.98601	0.00041			0.53881	0.01106
san	Sanskrit	147128	0.97656	0.00072	0.99104	6e-05	0.66667	0.0
sas	Sasak	7890	0.9985	3e-05				
sat	Santali	21927	1.0	0.0	1.0	0.0		
sba	Ngambay	30900	0.9995	0.0				
sbd	Southern Samo	7909	0.9975	3e-05				0.00011
sbe	Saliba	6215	0.998	6e-05				
sbl	Botolan Sambal	7848	1.0	0.0				
sbs	Subiya	328	0.83871	0.0				

Table 23: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 19)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
sby	Soli	208	0.95833	0.0				0.00022
sck	Sadri	29						
scn	Sicilian	62549	0.96888	0.00074	0.99802	6e-05		0.00263
sco	Scots	101211	0.97563	0.00025		0.00028	0.92683	0.00044
sda	Toraja-Sa'dan	8864	0.99198	0.00017				0.00011
sdh	Southern Kurdish	1048	0.93968	0.0				
sdo	Bukar-Sadung Bidayuh	787	0.98851	3e-05				
seh	Sena	301781	0.98462	0.00063		0.00034		
ses	Koyraboro Senni Songhai	12790	0.9955	0.00011				
sey	Secoya	7912	1.0	0.0			0.02985	0.00044
sfw	Sehwi	10131	0.99548	0.0				0.00033
sgb	Mag-antsi Ayta	7857	0.998	8e-05				
sgf	Shughni	717	1.0	0.0				0.00077
sgs	Samogitian	10047	0.98889	3e-05		6e-05		
sgw	Sebat Bet Gurage	7909	0.99749	0.0				
sgz	Sursurunga	7745	0.9995	3e-05				
shi	Tachelhit	10669	0.98226	0.00011		0.00011		
shk	Shilluk	7907	1.0	0.0			0.88889	0.0
shn	Shan	24569	1.0	0.0	1.0	0.0	0.99145	0.0
shp	Shipibo-Conibo	9806	0.9995	3e-05			0.27397	0.0
shr	Shi	14876	0.98656	0.0005		0.00011		
shs	Shuswap	95	0.8125	0.0				
shu	Chadian Arabic	7923	0.998	6e-05		0.00835		0.0012
shy	Tachawit	247	0.27907	0.0				
sid	Sidamo	130089	0.999	6e-05			0.90625	0.00131
sig	Paasaal	7893	0.998	3e-05				0.00011
sil	Tumulung Sisaala	7868	0.99649	0.0				
sim	Mende (Papua New Guinea)	7790	0.9995	3e-05				0.00033
sin	Sinhala	554048	1.0	0.0	1.0	0.0	1.0	0.0
sja	Epena	7870	0.9995	0.0				
sjn	Sindarin	92	0.33333	3e-05				
skg	Sakalava Malagasy	56311	0.9955	0.00011		0.00011		0.00022
skr	Saraiiki	134	0.51429	3e-05				
sld	Sissala	7906	0.999	6e-05				0.0035
slk	Slovak	3544374	0.97476	0.00099	0.99852	6e-05	0.86957	0.00197
sll	Salt-Yui	7869	0.999	3e-05				
slv	Slovenian	4072739	0.96881	0.0016	0.99459	0.00062	0.88889	0.00164
sma	Southern Sami	59	0.83333	0.0				
sme	Northern Sami	18205	0.99448	6e-05		6e-05	0.96667	0.00022
smk	Bolinao	7859	0.9985	3e-05				
sml	Central Sama	7891	0.9995	0.0		6e-05		
smo	Samoa	1640628	0.99352	0.00025	0.99603	0.0	1.0	0.0
smt	Simte	7953	0.99247	8e-05				
sna	Shona	2150482	0.98521	0.0008	0.99901	0.00011	0.93846	0.00088
snc	Sinaugoro	7926	1.0	0.0				
snd	Sindhi	132171	0.9985	0.0	0.99362	0.00074		
snf	Noon	7907	0.99599	3e-05				0.0012
snn	Siona	7892	1.0	0.0			0.60773	0.0
snp	Siane	15669	0.999	0.0				0.00022
snw	Selee	7890	1.0	0.0				
sny	Saniyo-Hiyewe	7848	1.0	0.0				
soe	Songomeno	1127	0.96988	3e-05				0.00011
som	Somali	227769	0.99649	6e-05	0.96657	0.00398	0.75817	0.00405
sop	Songe	208326	0.9955	0.00011		0.00011		0.00055
soq	Kanasi	10512	0.9985	3e-05				0.00022
sot	Southern Sotho	2131930	0.99305	0.00039	1.0	0.0	0.98333	0.00011
soy	Miyobe	7920	1.0	0.0				0.00099
spa	Spanish	2583672	0.50519	0.05363	0.99508	0.00057	0.71681	0.00679
spl	Selepet	7031	0.9995	3e-05				
spm	Akukem	1622	0.99785	0.0				
spp	Supyire Senoufo	7847	0.9985	6e-05				
sps	Saposa	8166	0.999	0.0				
spy	Sabaot	15366	1.0	0.0				
sqi	Albanian	326340	0.999	6e-05				
srd	Sardinian	53845	0.93574	6e-05	0.99951	0.0		
sri	Siriano	7808	0.9985	0.0				
srn	Saramaccan	75703	0.9975	6e-05				0.00055
srn	Sranan Tongo	1166639	0.99107	0.00047				
srp	Serbian	1390294	0.98142	0.00039	0.99901	0.00011	0.5124	0.00657
srq	Sirionó	7814	0.9995	0.0				
srr	Serer	3524	0.99191	0.0			0.89231	0.00131
ssd	Siroi	10880	0.9965	0.00011				
ssg	Seimat	7891	0.998	3e-05				
ssw	Swati	426339	0.97691	0.00052	0.99654	0.00023	0.94891	0.00066
ssx	Samberigi	9408	1.0	0.0				0.00011

Table 24: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 20)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
stn	Owa	7884	0.9985	6e-05				
stp	Southeastern Tepehuan	7918	1.0	0.0				0.00022
stq	Saterfriesisch	10507	0.99147	0.00014				
sua	Sulka	7558	0.999	3e-05				
suc	Western Subanon	7896	0.999	0.0				
sue	Suena	7882	0.998	8e-05				
suk	Sukuma	8083	0.99599	3e-05		6e-05	0.68712	0.00514
sun	Sundanese	109886	0.98094	0.00044	0.99012	0.00057	0.9697	0.00033
sur	Mwaghavul	7952	0.999	3e-05				
sus	Susu	11639	0.99449	8e-05		6e-05	0.92683	0.00088
sux	Sumerian	183	0.92754	0.0				
suz	Sunwar	30868	0.9985	0.0				
swa	Swahili (macrolanguage)	100000	0.998	8e-05		6e-05		
swb	Maore Comorian	1412	0.97387	0.00011			0.79137	0.00274
swc	Congo Swahili	452844	0.9025	0.00454		0.00409		0.00285
swe	Swedish	3997074	0.96724	0.00154	0.99754	0.00028	0.86301	0.00219
swg	Swabian	9915	0.97342	0.00011				0.00011
swh	Swahili (individual language)	370928	0.9401	0.00267	0.94869	0.00187	0.84956	0.00044
swk	Malawi Sena	7727	0.98992	6e-05				
swp	Suau	11467	0.997	0.00011				
sxb	Suba	7906	0.998	0.0				0.00011
sxn	Sangir	51443	0.995	0.00014				
syb	Central Subanen	7644	0.999	3e-05				
syc	Classical Syriac	7926	1.0	0.0				0.00635
syl	Sylheti	15						
szb	Ngalum	7940	1.0	0.0				
szl	Silesian	57496	0.99247	0.00011	0.99104	6e-05		
tab	Tabassaran	7851	0.999	3e-05				
tac	Lowland Tarahumara	11398	0.9985	0.0				
tah	Tahitian	1185188	0.99255	0.00039			0.91892	0.00011
taj	Eastern Tamang	7884	0.9995	0.0			0.66667	0.0
tam	Tamil	1581134	1.0	0.0	1.0	0.0	1.0	0.0
tap	Taabwa	216	0.875	0.0		0.00011		
taq	Tamasheq	24410	0.90069	0.00325	0.80642	0.02022		0.00438
tar	Central Tarahumara	25433	0.98077	0.00019				0.00022
tat	Tatar	372101	0.98657	0.00052	1.0	0.0	0.65556	0.00668
tav	Tatuyo	7676	0.9975	8e-05				
taw	Tai	7683	0.9985	6e-05				
tbc	Takia	7836	1.0	0.0				
tbg	North Tairora	19510	0.999	6e-05				
tbk	Calamian Tagbanwa	7653	1.0	0.0				
tbl	Tboli	7806	0.9985	0.0				0.00011
tbo	Tawala	7895	0.99701	0.00014				0.00011
tby	Tabaru	7878	0.9995	3e-05				
tbz	Ditammari	30712	0.9995	3e-05			0.20896	0.0
tca	Ticuna	25611	0.81432	0.00393			0.9916	0.0
tcc	Datooga	7953	1.0	0.0				
tcf	Malinaltepec Me'phaa	125443	0.997	0.00011				0.00022
tes	Torres Strait Creole	12298	0.99046	0.00014				
tcy	Tulu	10000	0.98219	0.0				
tcz	Thado Chin	44548	0.997	0.00011				
tdt	Tetun Dili	450685	0.99056	0.00044			0.66292	0.00646
tdx	Tandroy-Mahafaly Malagasy	73631	0.9975	6e-05		6e-05		
ted	Tepo Krumen	7812	0.999	6e-05				
tee	Huehuetla Tepehua	7938	1.0	0.0				
tel	Telugu	634652	0.999	6e-05	1.0	0.0	1.0	0.0
tem	Timne	7951	1.0	0.0			0.97345	0.0
teo	Teso	36835	0.99451	0.00019				0.00044
ter	Tereno	8019	0.999	3e-05				
tet	Tetum	9162	0.99197	0.00011				
tew	Tewa (USA)	4831	1.0	0.0				
tfr	Teribe	7534	0.9995	0.0				
tgk	Tajik	232287	0.99599	3e-05	1.0	0.0	0.67429	0.00624
tgl	Tagalog	1391946	0.85393	0.00897	0.99901	0.00011	0.94403	0.00077
tgo	Sudest	8042	0.9995	0.0				
tgp	Tangoa	7927	0.999	0.0				
tha	Thai	883065	0.99502	0.00028	1.0	0.0	1.0	0.0
thk	Tharaka	7890	0.9995	3e-05		0.00011		
thv	Tahaggart Tamahaq	589	0.66038	0.0		0.00182		0.00011
tif	Tifal	7682	0.9985	0.0				
tig	Tigre	3874	0.74834	3e-05		0.00125		
tih	Timugon Murut	7913	0.9995	3e-05				
tik	Tikar	7900	0.9995	0.0				
tim	Timbe	7791	0.9995	0.0				
tir	Tigrinya	917442	0.89658	0.00624	0.98851	0.0	1.0	0.0

Table 25: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 21)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
tiv	Tiv	481805	0.9965	0.00011			0.98551	0.00022
tiy	Tiruray	7896	1.0	0.0				
tke	Takwane	10656	0.99498	6e-05				0.00011
tkl	Tokelau	629	0.91026	0.0				
tkr	Tsakhur	912	0.98932	0.0				
tku	Upper Necaxa Totonac	7936	0.99303	0.0003				
tlb	Tobelo	7902	0.999	3e-05				0.00011
tlf	Telefol	7676	0.9995	3e-05				
tlh	Klingon	55689	0.99498	6e-05		6e-05		
tlj	Talinga-Bwisi	7885	0.999	3e-05				
tl	Tetela	584747	0.99304	0.00036		0.00017		0.00011
tly	Talys	66	0.57143	0.0			0.03175	0.0
tmd	Haruai	7725	1.0	0.0				
tmr	Jewish Babylonian Aramaic	218	0.7	0.0				
tmw	Temuan	5						
tna	Tacana	7705	0.999	3e-05				
tn	Tanimuca-Retuarã	3025	1.0	0.0				
tnk	Kwamera	7870	1.0	0.0				
tnn	North Tanna	7865	0.9975	3e-05				
tnp	Whitesands	7864	0.998	8e-05				
tob	Toba	39496	0.99599	6e-05			0.97561	0.00033
toc	Coyutla Totonac	7915	0.9985	6e-05				0.00011
tod	Toma	11025	0.996	8e-05				
tog	Tonga (Nyasa)	231197	0.99699	3e-05		0.00011		
toh	Gitonga	107233	0.995	0.00014				
toi	Tonga (Zambia)	746307	0.98961	0.00058		0.00011	1.0	0.0
toj	Tojolabal	189077	0.98953	0.00036		6e-05	0.83688	0.00022
tok	Toki Pona	52772	1.0	0.0				0.00044
ton	Tonga (Tonga Islands)	1234253	0.99502	0.00025			1.0	0.0
too	Xicotepc De Juárez Totonac	7940	0.99297	8e-05				
top	Papantla Totonac	238408	0.99601	0.00017			0.97561	0.00033
tos	Highland Totonac	7906	0.998	3e-05				0.00022
tpa	Taupota	656	0.94792	8e-05				
tpi	Tok Pisin	1846778	0.99155	0.00039	0.99951	0.0	0.98361	0.00011
tpm	Tampulma	30663	0.997	8e-05				0.00066
tp	Pisaflores Tepehua	7926	0.9995	3e-05		0.00011		
tpt	Tlachichilco Tepehua	7927	0.9995	0.0		6e-05		
tpw	Tupí	563	0.90566	6e-05				0.00011
tpz	Tinputz	7846	1.0	0.0				
tqb	Tembé	30084	0.48998	0.01293				
trc	Copala Triqui	7881	1.0	0.0				
trn	Trinitario	7840	1.0	0.0				0.00022
tro	Tarao Naga	7952	0.9995	0.0				
trp	Kok Borok	30861	0.998	8e-05				
trq	San Martín Itunyoso Triqui	7937	1.0	0.0				
tsc	Tswa	297653	0.99097	0.00017				0.00011
tsg	Tausug	7892	0.9995	3e-05				
tsn	Tswana	799821	0.94537	0.00303	0.99753	6e-05	0.98361	0.00022
tso	Tsonga	2723082	0.97416	0.00143	0.99803	0.00023	0.94158	0.00153
tsw	Tsishingini	7902	0.99699	3e-05				
tsz	Purepecha	132907	0.74587	0.01735			0.81944	0.00274
ttc	Tektiteko	7954	1.0	0.0				0.00208
tte	Bwanabwana	7734	0.99551	0.00017				
tj	Tooro	106342	0.97983	0.00102		0.00017		0.00175
ttq	Tawallammat Tamajaq	2766	0.98647	0.0				
tts	Northeastern Thai	55	0.5	0.0				0.00011
tuc	Mutu	15211	0.9995	3e-05				
tue	Tuyuca	7812	0.999	0.0				
tuf	Central Tunebo	7875	0.9985	3e-05				
tui	Tupuri	30989	0.998	3e-05				
tuk	Turkmen	696538	0.99601	0.00017	0.99803	0.00023	0.94821	0.00142
tum	Tumbuka	808156	0.99551	0.00019	0.99852	0.00011		
tuo	Tucano	15602	1.0	0.0				
tur	Turkish	2439747	0.92159	0.00465	0.9907	0.00108	0.4918	0.01357
tuv	Turkana	237	0.89655	3e-05				0.00153
tvk	Southeast Ambrym	13248	0.9985	0.0				
tv	Tuvalu	520271	0.99206	0.00044				
twi	Twi	1934311	0.98668	0.00074	0.99951	0.0	0.95349	0.00131
twu	Teranu	7903	0.9975	0.00011				
twx	Tewe	31794	0.98376	3e-05				
txq	Tii	9062	0.997	8e-05				
txu	Kayapó	7661	1.0	0.0				
tyv	Tuvinian	147493	0.9945	0.00014			0.98361	0.00022
tzh	Tzeltal	223502	0.98949	0.00028			0.98333	0.00022
tzj	Tz'utujil	17101	0.99352	0.00025				0.00011

Table 26: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 22)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
tzl	Talossan	343	0.775	3e-05				
tzm	Central Atlas Tamazight	8142	0.88564	0.00292	0.94421	0.0054	0.01754	0.00569
tzo	Tzotzil	521363	0.9985	8e-05			0.97479	0.00011
ubr	Ubir	9424	0.9975	8e-05				
ubu	Umbu-Ungu	15261	0.9985	3e-05				
udm	Udmurt	95670	0.99053	0.00036				0.00022
udu	Uduk	7952	0.9995	0.0			0.98361	0.00022
uig	Uighur	118987	0.9995	0.0	0.99901	0.00011	0.89916	0.0012
ukr	Ukrainian	2374463	0.95992	0.00212	0.99951	6e-05	0.98361	0.00022
umb	Umbundu	646290	0.99301	0.00022	0.88585	0.00045	0.87931	0.00109
upv	Uripiv-Wala-Rano-Atchin	7916	0.998	6e-05				
ura	Urarina	7752	0.9985	3e-05			0.82963	0.0
urb	Urubú-Kaapor	7742	0.9995	0.0				
urd	Urdu	775141	0.97065	0.00143	0.98346	0.00187	0.96522	0.00077
urh	Urhobo	181379	0.99302	0.00028				0.00011
uri	Urim	2487	1.0	0.0				
urk	Urak Lawoi'	7911	0.9995	0.0				
urt	Urat	7816	0.9985	0.0				
usa	Usarufa	8134	1.0	0.0				
usp	Uspanteco	7898	0.999	0.0				
uvh	Uri	7690	0.9995	0.0				
uvl	Lote	7908	0.999	0.0				
uzb	Uzbek	181303	0.999	6e-05				
uzn	Northern Uzbek	1516837	0.99054	0.00039	0.96885	0.00364	0.48819	0.00788
vag	Vagla	7938	0.9995	0.0				0.00011
vap	Vaiphei	30918	0.98504	0.0005				0.00011
var	Huarijio	7954	0.9975	3e-05				
vec	Venetian	124915	0.96296	0.00099	0.99703	6e-05	0.86957	0.00197
ven	Venda	806164	0.998	0.00011			1.0	0.0
vep	Veps	13						
vgt	Vlaamse Gebarentaal	9618	0.78372	3e-05				
vid	Vidunda	7943	0.99154	0.00036		0.00017		0.00022
vie	Vietnamese	2010052	0.99303	0.00033	0.99951	6e-05	0.66304	0.00011
viv	Iduna	7521	0.9985	3e-05				
vls	Vlaams	30000	0.97166	0.00044		0.00023		0.00011
vmk	Makhuwa-Shirima	1970	0.88306	0.0				0.00011
vmw	Makhuwa	306018	0.97205	0.00132		0.00011	0.95798	0.00022
vmy	Ayautla Mazatec	7941	0.999	0.0				0.00263
vol	Volapük	105178	0.99751	0.00014				0.00044
vro	Võro	10015	0.98739	0.00011				0.00328
vun	Vunjo	7951	0.99145	8e-05				
vut	Vute	7912	1.0	0.0				0.00328
waj	Waffa	7854	0.9985	0.0				
wal	Wolaytta	309841	0.98961	0.00058				0.00033
wap	Wapishana	14453	0.9985	0.0				0.00099
war	Waray (Philippines)	606273	0.99305	0.00039	0.99951	0.0	0.9916	0.0
wat	Kaninuwa	2596	0.99868	3e-05				
way	Wayana	7923	0.9995	0.0				
wba	Warao	388	0.97521	3e-05				0.00044
wbm	Wa	30852	0.76979	0.01416				0.00197
wbp	Warlpiri	10006	1.0	0.0				
wca	Yanomámi	7788	0.80093	0.00803				
wed	Wedau	1309	0.96658	0.00019				
wer	Weri	7854	1.0	0.0				0.00011
wes	Cameroon Pidgin	91652	0.94163	0.00267				0.00252
wew	Wejewa	884	0.98893	0.0				
whg	North Wahgi	977	0.9699	3e-05				0.00011
whk	Wahau Kenyah	7945	0.99548	3e-05				
wib	Southern Toussian	6982	0.9995	3e-05				
wim	Wik-Mungkan	7697	1.0	0.0				
wiu	Wiru	7809	0.9995	0.0				0.00099
wln	Walloon	30053	0.99198	0.00014			0.62105	0.00777
wls	Wallisian	880578	0.99255	0.00039				
wlv	Wichí Lhamtés Vejoz	1809	0.9899	3e-05				0.00033
wmt	Walmajarri	1149	1.0	0.0				
wmw	Mwani	7940	0.99549	8e-05				0.00022
wnc	Wantoat	10243	0.999	0.0				
wnu	Usan	7720	1.0	0.0				
wob	Wè Northern	7924	0.9985	3e-05				
wol	Wolof	79608	0.97988	0.00039	0.99852	0.0	0.79747	0.0035
wos	Hanga Hundi	7811	0.999	0.0				0.00011
wrk	Garrwa	4838	0.99862	3e-05				
wrs	Waris	8985	0.999	0.0				
wsk	Waskia	13069	0.99701	0.00014				
wuu	Wu Chinese	104765	0.8768	0.00033		0.00011	0.35811	0.01905

Table 27: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 23)

iso639-3	Language	Sentences	GlotLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
wuv	Wuvulu-Aua	7938	0.998	0.0				
wwa	Waama	7901	0.9985	0.0			0.88636	0.0
xal	Kalmyk	8727	0.99147	0.00014				0.00022
xav	Xavánte	24284	0.78285	0.00803				0.00022
xbi	Kombio	4326	0.99924	0.0				
xbr	Kambara	7547	0.999	0.0				
xed	Hdi	7945	0.9985	3e-05				0.00011
xho	Xhosa	1011828	0.98372	0.00083	0.99118	0.00097	0.93846	0.00088
xla	Kamula	9641	0.9995	3e-05				
xmf	Mingrelian	124528	0.99303	0.0003				
xmv	Antankarana Malagasy	76882	0.99699	3e-05		6e-05		0.00011
xnn	Northern Kankanay	7735	0.99649	3e-05				
xog	Soga	25897	0.99249	0.00017				
xon	Konkomba	15023	0.99651	0.00019				
xpe	Liberia Kpelle	31074	0.55157	0.00919				
xqa	Karakhanid	12						
xrb	Eastern Karaboro	7887	0.9995	3e-05				
xsb	Sambal	7915	0.997	0.00011				
xsi	Sio	10302	1.0	0.0				0.00044
xsm	Kasem	7874	0.9985	6e-05				
xsr	Sherpa	7935	1.0	0.0				
xsu	Sanumá	7788	0.76697	0.00371				0.00011
xtl	Diuxi-Tilantongo Mixtec	8182	0.9985	3e-05				0.00044
xtm	Magdalena Peñasco Mixtec	7929	0.9985	0.0				0.00427
xtn	Northern Tlaxiaco Mixtec	14968	0.9985	8e-05				
xuo	Kuo	7884	0.999	3e-05				
yaa	Yaminahua	7622	1.0	0.0				
yad	Yagua	7454	1.0	0.0			0.88889	0.0
yal	Yalunka	7932	0.998	0.0				0.00055
yam	Yamba	7927	0.9995	0.0				
yan	Mayangna	30722	0.99449	8e-05				
yao	Yao	204519	0.99701	0.00014		6e-05	0.97345	0.00022
yap	Yapese	352203	0.99651	0.00017			0.96721	0.00022
yaq	Yaqui	7934	1.0	0.0				
ybb	Yemba	8028	0.91398	0.00028				0.00197
yby	Yaweyuha	7883	0.999	0.0				
ycn	Yucuna	7857	0.9995	0.0				
ydd	Eastern Yiddish	911	0.99661	0.0	0.99603	0.0	0.99187	0.0
yid	Yiddish	44101	0.99497	0.0				
yim	Yimchungru Naga	30883	0.99548	3e-05				
yka	Yakan	8455	0.9975	3e-05				
ykg	Northern Yukaghir	20						
yle	Yele	7585	0.9995	0.0		6e-05		
yli	Angguruk Yali	7905	0.999	3e-05				0.00088
yml	Iamalele	7317	0.9985	0.0				
yom	Yombe	77077	0.98856	0.00047		6e-05		0.00646
yon	Yongkom	11798	0.9995	0.0				0.00022
yor	Yoruba	1812160	0.99206	0.00041	0.99406	0.00023	0.85106	0.0023
yrb	Yareba	7117	0.9975	8e-05				
yre	Yaouré	7908	1.0	0.0				
yrk	Nenets	1908	0.99112	3e-05			0.8381	0.00011
yrl	Nhengatu	7439	0.9322	0.00022				
yss	Yessan-Mayo	15808	0.999	6e-05				
yua	Yucateco	616290	0.99701	0.00014			1.0	0.0
yue	Yue Chinese	64647	0.9549	0.00022	0.00394	0.0	0.46897	0.00449
yuj	Karkar-Yuri	7845	0.9995	0.0				
yup	Yukpa	329	0.96078	3e-05				0.00077
yut	Yopno	10245	1.0	0.0				
yuw	Yau (Morobe Province)	7846	0.999	6e-05				
yuz	Yuracare	7826	1.0	0.0				
yva	Yawa	7651	0.9995	3e-05				0.00011
zaa	Sierra de Juárez Zapotec	7891	1.0	0.0				
zab	Western Tlacolula Valley Zapotec	9862	0.99549	6e-05				
zac	Ocotlán Zapotec	7941	0.9995	0.0				
zad	Cajonos Zapotec	7938	1.0	0.0				0.00033
zae	Yareni Zapotec	7916	0.999	6e-05				0.00011
zai	Isthmus Zapotec	276740	0.98903	0.00039				0.00055
zam	Miahuatlán Zapotec	7943	0.9995	3e-05			0.0	0.00011
zao	Ozolotepec Zapotec	7940	0.998	3e-05				0.00109
zar	Rincón Zapotec	7919	0.9975	8e-05				
zas	Santo Domingo Albarradas Zapotec	7928	0.9995	3e-05				0.00131
zat	Tabaa Zapotec	7938	1.0	0.0				
zav	Yatzachi Zapotec	11233	0.87575	0.00099				0.00088
zaw	Mitla Zapotec	7951	0.9995	0.0				
zca	Coatecas Altas Zapotec	7938	1.0	0.0				0.00022

Table 28: Performance of GlotLID-M on GlotLID-C test, FLORES-200 and UDHR benchmarks (part 24)

iso639-3	Language	Sentences	GlottLID-C		FLORES-200		UDHR	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
zdj	Ngazidja Comorian	2097	0.97484	6e-05		0.00011	0.78125	0.00208
zea	Zeeuws	10012	0.91037	0.00025		0.00045		
zgh	Standard Moroccan Tamazight	3285	0.93333	0.00039		0.00068	0.17647	0.0
zho	Chinese	4212269	0.998	0.0	1.0	0.0		
zia	Zia	7893	0.99749	0.0				
ziw	Zigula	7957	0.97857	0.00069				
zlm	Malay (individual language)	2260	0.86341	3e-05			0.0	0.00011
zne	Zande (individual language)	315310	0.99053	0.00036				0.00219
zom	Zou	30810	0.64431	0.0192				0.0012
zos	Francisco León Zoque	7953	0.999	0.0				
zpa	Lachiguirí Zapotec	67840	0.75362	0.01389				0.00055
zpc	Choapan Zapotec	7914	0.999	0.0				
zpd	Southeastern Ixtlán Zapotec	106	0.82927	3e-05				0.0023
zpf	San Pedro Quiatoni Zapotec	94	1.0	0.0				0.00208
zpg	Guevea De Humboldt Zapotec	1020	0.98462	0.0				
zpi	Santa María Quiévolani Zapotec	7856	0.999	6e-05				0.00011
zpj	Quiavicuzas Zapotec	124	0.89362	0.0				0.00077
zpl	Lachixío Zapotec	7953	0.999	3e-05				
zpm	Mixtepec Zapotec	7695	0.9995	0.0				0.00033
zpo	Amatlán Zapotec	7913	0.9985	3e-05				0.00033
zpq	Zoogocho Zapotec	7889	0.99649	3e-05				
zpt	San Vicente Coatlán Zapotec	7929	1.0	0.0				0.00383
zpu	Yalálag Zapotec	7935	0.999	0.0				
zpv	Chichicapan Zapotec	7946	1.0	0.0				0.00438
zpz	Texmelucan Zapotec	7936	0.9995	0.0				
zsm	Standard Malay	445673	0.9223	0.00168	0.93506	0.00307		0.0081
zsr	Southern Rincon Zapotec	7918	0.998	0.0				
ztq	Quióquitani-Quierí Zapotec	7898	1.0	0.0				0.00011
zty	Yatee Zapotec	7908	0.999	6e-05				
zul	Zulu	990448	0.99295	0.0	0.96893	0.0	0.98305	0.0
zyb	Yongbei Zhuang	10631	0.9985	0.0			0.912	0.00066
zyp	Zyphe Chin	7934	0.999	0.0				0.00011
zza	Zaza	1713	0.936	0.0				

Table 29: Performance of GlottLID-M on GlottLID-C test, FLORES-200 and UDHR benchmarks (part 25)

														with confidence threshold θ											
														GlotLID-M		CLD3		GlotLID-M $\theta=0.3$		GlotLID-M $\theta=0.5$		CLD3 $\theta=0.5$		CLD3 $\theta=0.7$	
iso639-3	FLORES Code(s)	CLD3 Code(s)	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓									
ace	ace	-	0.95757	0.01099					0.95732	0.00984	0.95689	0.00788													
af	af	-	1.0	0.0	0.86863	0.00308			1.0	0.0	1.0	0.0	0.88042	0.00275	<u>0.91091</u>	0.00188									
aka	aka/twi	-	0.99876	0.00012					0.99901	0.0	0.99901	0.0													
amh	amh	am	0.99951	0.00012	0.66579	0.01046			0.99951	0.00011	0.99951	0.0001	0.66579	0.01043	0.66579	0.0102									
ara	arz/ars/acm/ary/aeb/acq/apc/arb/ajp	ar	0.93244	0.06061	0.88458	0.0137			0.92725	0.0542	0.92631	0.04535	0.89253	0.01176	<u>0.90924</u>	0.00751									
asm	asm	-	1.0	0.0					1.0	0.0	1.0	0.0													
ast	ast	-	0.99209	0.00099					0.99308	0.00066	0.99257	0.00049													
awa	awa	-	0.38951	0.00012					0.38982	0.0	0.35313	0.0													
ayr	ayr	-	0.99556	0.00086					0.96738	0.00011	0.93193	0.0													
aze	azb/azj	az	0.71808	0.00049	0.45528	0.01446			0.71546	0.00033	0.69627	0.00019	0.48299	0.0118	<u>0.53112</u>	0.00768									
bak	bak	-	1.0	0.0					1.0	0.0	1.0	0.0													
bam	bam	-	0.52563	0.11122					0.52664	0.0991	0.53084	0.08467													
ban	ban	-	0.97521	0.00012					0.97571	0.0	0.97467	0.0													
bel	bel	be	1.0	0.0	0.98827	0.00024			1.0	0.0	1.0	0.0	0.98972	0.00021	<u>0.99312</u>	0.00013									
bem	bem	-	0.9906	0.00099					0.99256	0.00044	0.99256	0.00039													
ben	ben	bn	0.99852	0.00012	<u>0.5005</u>	0.02059			0.99852	0.00011	0.99852	0.0001	0.5005	0.02053	0.5005	0.02006									
bho	bho	-	0.94329	0.00963					0.94374	0.00852	0.94846	0.00477													
bod	bod	-	0.94589	0.00012					0.94589	0.00011	0.94589	0.0001													
bos	bos	bs	0.58206	0.00679	0.53913	0.00518			0.57353	0.00608	0.49605	0.00331	<u>0.55291</u>	0.00431	0.00197	1e-05									
bug	bug	-	0.99802	0.00012					0.99703	0.0	0.99404	0.0													
bul	bul	bg-Latn/bg	0.99951	0.0	0.93506	0.00141			0.99951	0.0	0.99951	0.0	0.96413	0.00073	<u>0.98051</u>	0.00034									
cat	cat	ca	1.0	0.0	0.54988	0.017			1.0	0.0	1.0	0.0	0.56949	0.01565	<u>0.60701</u>	0.01305									
ceb	ceb	ceb	0.99503	0.0	0.65466	0.01081			0.99454	0.0	0.99404	0.0	0.67137	0.00999	<u>0.68434</u>	0.00908									
ces	ces	cs	0.99951	0.00012	0.89569	0.0024			0.99951	0.00011	0.99901	0.0001	0.92435	0.00166	<u>0.95071</u>	0.00096									
ckb	ckb	-	0.84493	0.00012					0.83429	0.00011	0.79834	0.0001													
cos	cos	-	1.0	0.0					1.0	0.0	1.0	0.0													
crh	crh	co		0.00037		0.02364				0.00033		0.00019		0.02132		0.0177									
cym	cym	cy	0.98851	0.0					0.988	0.0	0.988	0.0													
dan	dan	da	0.99951	0.00012	0.84123	0.00396			0.99951	0.00011	1.0	0.0	0.89947	0.00232	<u>0.93828</u>	0.00133									
deu	deu	de	0.99357	0.00074	0.93422	0.00118			0.99554	0.00022	0.99554	0.00019	0.95082	0.00079	<u>0.96071</u>	0.00046									
dik	dik	-	0.99901	0.0	0.98011	0.0004			0.99901	0.0	0.99852	0.0	0.98826	0.00023	<u>0.99016</u>	0.00014									
dyu	dyu	-	0.96653	0.00012					0.96653	0.0	0.99454	0.0													
dzo	dzo	-	0.12435	0.03148					0.11878	0.0282	0.11186	0.02472													
ell	ell	-	0.9496	0.01271					0.9491	0.01139	0.9491	0.01002													
eng	eng	el-Latn/el	1.0	0.0	0.90811	0.00207			1.0	0.0	1.0	0.0	0.94382	0.0012	<u>0.96691</u>	0.00066									
epo	epo	eo	0.9878	0.00309	0.95943	0.00081			0.99215	0.00166	0.99556	0.00058	0.97473	0.00044	<u>0.98132</u>	0.00024									
est	est	et	0.99901	0.00025	0.91773	0.00178			0.99951	0.00011	1.0	0.0	0.95121	0.00098	<u>0.97423</u>	0.00043									
eus	eus	eu	0.99852	0.00037	0.92477	0.00166			0.99951	0.00011	0.99951	0.0001	0.95905	0.00084	<u>0.9781</u>	0.00038									
ewe	ewe	-	0.99951	0.0	0.86818	0.00317			0.99951	0.0	0.99951	0.0	0.93137	0.00153	<u>0.96099</u>	0.00081									
fao	fao	-	1.0	0.0					1.0	0.0	1.0	0.0													
fas	fas	fa	0.99951	0.0					0.99951	0.0	0.99951	0.0													
fij	fij	pes/prs	0.79937	0.12542	0.62121	0.02544			0.80032	0.11171	0.82343	0.08448	0.64803	0.02256	<u>0.71721</u>	0.01595									
fil	fil	-	0.99901	0.0					0.99901	0.0	0.99901	0.0													
fin	fin	fi	0.99951	0.00012	0.92449	0.00169			1.0	0.0	1.0	0.0	0.95825	0.00089	<u>0.97817</u>	0.00041									
fon	fon	-	0.99752	0.0					0.99752	0.0	0.99703	0.0													
fra	fra	fr	0.99951	0.00012	0.82909	0.00428			0.99951	0.00011	0.99852	0.0001	0.85641	0.00345	<u>0.89511</u>	0.00233									
fry	fry	-				0.00228							0.00168			0.00099									
fur	fur	-	0.99951	0.00012					0.99951	0.00011	1.0	0.0													
fuv	fuv	-	0.96738	0.00012					0.96099	0.0	0.94693	0.0													
gaz	gaz	-	0.99312	0.0016					0.90232	0.00055	0.78878	0.00029													
gla	gla	gd	0.99951	0.00012	0.82382	0.00446			1.0	0.0	1.0	0.0	0.86919	0.00312	<u>0.91561</u>	0.00185									
gle	gle	ga	1.0	0.0	0.92696	0.00162			1.0	0.0	1.0	0.0	0.95234	0.00101	<u>0.97961</u>	0.00039									
glg	glg	gl	0.99703	0.00025	0.76147	0.0063			0.99703	0.00022	0.99703	0.0001	0.79904	0.00501	<u>0.84291</u>	0.00035									
grn	grn	-	1.0	0.0					1.0	0.0	1.0	0.0													
guj	guj	gu	1.0	0.0	<u>0.99703</u>	0.0			1.0	0.0	1.0	0.0	0.99703	0.0	<u>0.99703</u>	0.0									
hat	hat	ht	0.99852	0.00037	0.63645	0.01196			0.99852	0.00033	0.99901	0.00019	0.70798	0.00861	<u>0.78066</u>	0.0057									
hau	hau	ha	0.95924	0.01062	0.44685	0.02592			0.98348	0.00376	0.99313	0.00136	0.53795	0.0179	<u>0.64867</u>	0.01101									
haw	haw	-				0.01547								0.01097		0.00655									
heb	heb	iw	1.0	0.0	0.99555	4e-05			1.0	0.0	1.0	0.0	0.99555	4e-05	<u>0.99604</u>	3e-05									
hin	hin	hi-Latn/hi	0.67624	0.11961	0.21078	0.07843			0.67692	0.10685	0.69697	0.08564	0.22372	0.07248	<u>0.25377</u>	0.05996									
hmn	hmn	hmn				0.00069							0.00029			0.00014									
hne	hne	-	0.90296	0.00555					0.90343	0.00487	0.898	0.0035													
hrv	hrv	hr	0.75157	0.0711	0.56313	0.0049			0.75373	0.06216	0.768	0.04389	<u>0.56847</u>	0.00456	0.00394	0.0									
hun	hun	hu	1.0	0.0	0.71804	0.00822			1.0	0.0	0.99951	0.0	0.79889	0.00525	<u>0.88105</u>	0.00275									
hye	hye	hy	1.0	0.0	<u>0.99703</u>	0.0			1.0	0.0	1.0	0.0	0.99703	0.0	<u>0.99703</u>	0.0									
ibo	ibo	ig	0.99951	0.00012	0.66843	0.01036			1.0	0.0	1.0	0.0	0.75769	0.00665	<u>0.85581</u>	0.0034									
ilo	ilo	-	0.99951	0.00012					0.99951	0.00011	0.99951	0.0001													
isl	isl	is	0.99901	0.00025	0.62928	0.01231			0.99951	0.00011	0.99951	0.0001	0.64432	0.01148	<u>0.6569</u>	0.01061									
ita	ita	it	0.99803	0.00037	0.53638	0.01807			0.99852	0.00022	0.99901	0.0001	0.56196	0.01622	<u>0.61908</u>	0.01244									
jav	jav	ja	0.98442	0.00383	0.57216	0.0156			0.99166	0.00177	0.99213	0.00127	0.62126	0.01266	<u>0.67272</u>	0.00972									
jpn	jpn	ja-Latn/ja	1.0	0.0	0.67627	0.00998			1.0	0.0	1.0	0.0	0.76672	0.00631	<u>0.854</u>	0.00345									
kab	kab	-	0.86127	0.02605					0.87886	0.01858	0.90909	0.00954													
kac	kac	-	1.0	0.0					1.0	0.0	1.0	0.0													
kam	kam	-	0.91658	0.00012					0.91183	0.0	0.87368	0.0													
kan	kan	kn	1.0	0.0	<u>0.99153</u>	0.0			1.0	0.0	1.0	0.0	0.99153	0.0	<u>0.99153</u>	0.0									
kas	kas	-	0.97649	0.0					0.97597	0.0	0.96945	0.0													
kat	kat	ka	1.0	0.0	<u>0.99354</u>	0.0			1.0	0.0	1.0	0.0	0.99354	0.0	<u>0.99354</u>	0.0									
kaz	kaz	kk	0.99951	0.0	0.71835	0.00819			0.99951	0.0	0.99951	0.0	0.72531	0.00788	<u>0.75968</u>	0.00643									
kbp	kbp	-	0.99901	0.00012					0.99901	0.00011	0.99901	0.0001													
kea	kea	-	0.95238	0.0					0.9513	0.0	0.93586	0.0													
khm	khm	km	0.99951	0.0	<u>0.99404</u>	0.0			0.99951	0.0	0.99951	0.0	0.99404	0.0	<u>0.99404</u>	0.0									
kik	kik	-	0.96562	0.00876					0.96509	0.00774															

		with confidence threshold θ													
iso639-3	FLORES Code(s)	CLD3 Code(s)	GlottLID-M		CLD3		GlottLID-M $\theta=.3$		GlottLID-M $\theta=.5$		CLD3 $\theta=.5$		CLD3 $\theta=.7$		
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	
lav	lvs/ltg	lv	0.99951	0.00012	0.89202	0.00348	0.99975	0.0	0.99951	0.0	0.91429	0.00225	<u>0.92211</u>	0.00122	
lij		lij	-	0.99901	0.00012			0.99852	0.00011	0.99753	0.0001				
lim		lim	-	0.99253	0.0			0.99253	0.0	0.99153	0.0				
lin		lin	-	0.99901	0.00025			0.99852	0.00022	0.99901	0.0001				
lit		lit	-	0.99951	0.0	0.78767	0.00561	0.99951	0.0	0.99951	0.0	0.84719	0.00373	<u>0.91057</u>	0.00196
lmo		lmo	-	0.99554	0.00025			0.99554	0.00022	0.99504	0.0001				
ltz		lb	-	0.99951	0.0	0.93872	0.00136	0.99901	0.0	0.99901	0.0	0.96011	0.00086	<u>0.97821</u>	0.00043
lua		lua	-	0.99653	0.00012			0.99553	0.0	0.99404	0.0				
lug		lug	-	0.99603	0.0			0.99603	0.0	0.99454	0.0				
luo		luo	-	1.0	0.0			1.0	0.0	0.99951	0.0				
lus		lus	-	0.99653	0.00012			0.99703	0.0	0.99653	0.0				
mag		mag	-	0.95459	0.00296			0.95507	0.00254	0.95408	0.00127				
mai		mai	-	0.97366	0.00012			0.97366	0.00011	0.97102	0.0				
mal		ml	-	1.0	0.0	0.99653	0.0	1.0	0.0	1.0	0.0	0.99653	0.0	0.99653	0.0
mar		mr	-	1.0	0.0	0.47801	0.02287	1.0	0.0	1.0	0.0	0.50855	0.02018	<u>0.59325</u>	0.01397
mkd		mkd	-	1.0	0.0	0.99407	6e-05	1.0	0.0	1.0	0.0	0.99357	5e-05	<u>0.99305</u>	2e-05
mlg		mg	-	0.99951	0.00012	0.89399	0.00249	0.99951	0.00011	0.99951	0.0001	0.94757	0.00116	<u>0.97352</u>	0.00055
mlt		mt	-	0.97731	0.0058	0.55065	0.01708	0.99216	0.00177	0.99803	0.00039	0.62752	0.01237	<u>0.72662</u>	0.00765
mni		mni	-	0.99901	0.00012			0.99901	0.00011	0.99901	0.0001				
mon		khk	-	1.0	0.0	0.99508	0.0001	1.0	0.0	0.99951	0.0	0.99704	6e-05	<u>0.99901</u>	2e-05
mos		mos	-	0.98138	0.0			0.97415	0.0	0.96418	0.0				
mri		mi	-	0.99901	0.00012	0.60242	0.01228	0.99951	0.0	0.99901	0.0	0.67426	0.00878	<u>0.7575</u>	0.00525
msa	min/ind/bjn/zsm	ms/id	-	0.97122	0.02271	0.64861	0.01076	0.97515	0.01482	0.97478	0.01051	0.64377	0.00722	<u>0.54044</u>	0.00419
mya		my	-	1.0	0.0	0.67006	0.00983	1.0	0.0	1.0	0.0	0.67006	0.0098	<u>0.67006</u>	0.00958
nep		ne	-	0.99852	0.00025	0.34321	0.03993	0.99852	0.00022	0.99951	0.0	0.36071	0.03687	<u>0.41741</u>	0.02834
nld		nl	-	0.99803	0.00049	0.77945	0.00588	0.99901	0.00022	0.99901	0.0001	0.78535	0.00565	<u>0.80854</u>	0.00471
nor	nno/nob	no	-	0.99729	0.00111	0.95306	0.0011	0.99753	0.00088	0.99778	0.00068	<u>0.96076</u>	0.0007	0.95885	0.00038
nso		nso	-	0.99704	0.00062			0.99704	0.00055	0.99655	0.00049				
nus		nus	-	0.99951	0.0			0.99951	0.0	0.99951	0.0				
nya		ny	-	0.99753	0.00049	0.37034	0.03552	0.99803	0.00033	0.99852	0.0001	0.41506	0.02935	<u>0.50325</u>	0.01996
oci		oci	-	0.99951	0.00012			1.0	0.0	0.99951	0.0				
ory		ory	-	1.0	0.0			0.80519	0.0	0.66314	0.0				
pag		pag	-	0.99852	0.0			0.99852	0.0	0.99852	0.0				
pan		pa	-	1.0	0.0	0.99553	0.0	1.0	0.0	1.0	0.0	0.99553	0.0	0.99553	0.0
pap		pap	-	0.99069	0.00222			0.99118	0.00188	0.99557	0.00078				
pol		pl	-	0.9907	0.00235	0.585	0.01483	0.99167	0.00188	0.99167	0.00165	0.61774	0.01289	<u>0.64081</u>	0.01137
por		pt	-	0.99655	0.00086	0.77611	0.00597	0.99704	0.00066	0.99704	0.00049	0.81641	0.0046	<u>0.86528</u>	0.00305
pus		ps	-	0.88805	0.00198	0.66315	0.01051	0.88853	0.00166	0.89142	0.00088	0.70238	0.00869	<u>0.80064</u>	0.00494
quy		quy	-	0.75676	0.0			0.625	0.0	0.57163	0.0				
ron		ro	-	0.99951	0.0	0.82339	0.00442	0.99951	0.0	0.99951	0.0	0.87289	0.00297	<u>0.91857</u>	0.00172
run		run	-	0.92541	0.01913			0.92584	0.01703	0.92627	0.01489				
rus		ru-Latn/ru	-	0.99901	0.00012	0.94255	0.00124	0.99901	0.00011	0.99901	0.0001	0.96459	0.00072	<u>0.97521</u>	0.00042
sag		sag	-	0.99901	0.0			0.99901	0.0	0.99901	0.0				
san		san	-	0.99104	0.00012			0.99104	0.00011	0.99103	0.0				
sat		sat	-	1.0	0.0			1.0	0.0	1.0	0.0				
scn		scn	-	0.99802	0.00012			0.99802	0.00011	0.99852	0.0				
shn		shn	-	1.0	0.0			1.0	0.0	1.0	0.0				
sin		si	-	1.0	0.0	0.99354	0.0	1.0	0.0	1.0	0.0	0.99354	0.0	0.99354	0.0
slk		sk	-	0.99852	0.00012	0.75414	0.00668	0.99852	0.00011	0.99901	0.0	0.81083	0.00474	<u>0.87511</u>	0.00279
slv		sl	-	0.99508	0.00123	0.97107	0.00057	0.99655	0.00077	0.99951	0.0001	0.97955	0.00037	<u>0.98528</u>	0.00022
simo		sm	-	0.99603	0.0	0.90934	0.00198	0.99603	0.0	0.99603	0.0	0.944	0.00114	<u>0.97187</u>	0.00048
sna		sn	-	0.99951	0.00012	0.61449	0.01309	0.99951	0.00011	1.0	0.0	0.66955	0.01024	<u>0.75336</u>	0.00662
snd		sd	-	0.99606	0.00099	0.47115	0.02287	0.99606	0.00088	0.99704	0.00058	0.49206	0.02092	<u>0.57735</u>	0.01439
som		so	-	0.97028	0.00765	0.52313	0.01912	0.98973	0.00232	0.99803	0.00039	0.57094	0.01571	<u>0.61892</u>	0.01256
sot		st	-	1.0	0.0	0.5043	0.02015	1.0	0.0	1.0	0.0	0.52382	0.01851	<u>0.54545</u>	0.01644
spa		es	-	0.99508	0.00123	0.63533	0.01193	0.99508	0.00111	0.99508	0.00088	0.64905	0.0112	<u>0.67561</u>	0.00971
sqi		sq	-	0.99951	0.00012	0.79984	0.00523	1.0	0.0	1.0	0.0	0.88762	0.00263	<u>0.94382</u>	0.00117
srđ		srđ	-	0.99951	0.0			0.99901	0.0	0.99901	0.0				
srp		sp	-	0.99901	0.00025	0.99753	2e-05	0.99951	0.00011	1.0	0.0	<u>0.99802</u>	1e-05	0.99653	1e-05
ssw		ssw	-	0.99455	0.00037			0.99455	0.00033	0.99455	0.00029				
sun		su	-	0.9906	0.00099	0.45112	0.02448	0.99306	0.00033	0.99304	0.0001	0.4952	0.02034	<u>0.55461</u>	0.01544
swa		sw	-	0.96611	0.00876	0.26502	0.05802	0.97542	0.00564	0.98635	0.00273	0.29567	0.04969	<u>0.35717</u>	0.03665
swe		sv	-	0.99803	0.00049	0.96728	0.00063	0.99951	0.00011	1.0	0.0	0.97431	0.00048	<u>0.97991</u>	0.00029
szl		szl	-	0.99104	0.00012			0.99104	0.00011	0.99104	0.0001				
tam		ta	-	1.0	0.0	<u>0.99303</u>	0.0	1.0	0.0	1.0	0.0	0.99303	0.0	0.99303	0.0
taq		taq	-	0.80906	0.04234			0.83861	0.02168	0.84449	0.00876				
tat		tat	-	1.0	0.0			1.0	0.0	1.0	0.0				
tel		te	-	1.0	0.0	0.97881	0.0	1.0	0.0	1.0	0.0	0.97881	0.0	0.97881	0.0
tgk		tg	-	1.0	0.0	0.99411	0.00012	1.0	0.0	1.0	0.0	0.99754	5e-05	<u>0.99803</u>	3e-05
tgl		tgl	-	0.99951	0.00012			0.99901	0.00011	0.99901	0.0001				
tha		th	-	1.0	0.0	<u>0.98749</u>	0.0	1.0	0.0	1.0	0.0	0.98749	0.0	0.98749	0.0
tir		tir	-	0.98851	0.0			0.98851	0.0	0.988	0.0				
tpi		tpi	-	0.99951	0.0			0.99951	0.0	0.99901	0.0				
tsn		tsn	-	0.99753	0.00012			0.99753	0.00011	0.99753	0.0001				
tso		tso	-	0.99753	0.00049			0.99753	0.00044	0.99901	0.0001				
tuk		tuk	-	0.99951	0.00012			0.99951	0.00011	0.99951	0.0001				
tum		tum	-	0.99852	0.00025			0.99901	0.00011	0.99901	0.0				
tur		tr	-	0.99119	0.00222	0.54852	0.01718	0.99119	0.00199	0.99119	0.00175	0.56606	0.01595	<u>0.59982</u>	0.01354
tzm		tzm	-	0.94421	0.01173			0.94421	0.01051	0.94524	0.00837				
uig		uig	-	1.0	0.0			1.0	0.0	1.0	0.0				
ukr		uk	-	0.99951	0.00012	0.9936	0.0001	0.99951	0.00011	0.99951	0.0001	<u>0.99409</u>	9e-05	0.99309	8e-05
umb		umb	-	0.88585	0.00099			0.8781	0.00055	0.834	0.00029				
urd		ur	-	0.98346	0.00407	0.64759	0.0113	0.98346	0.00365	0.99021	0.00185	0.66866	0.01026	<u>0.73611</u>	0.00724
uzb		uz	-	0.96015	0.01037	0.63806	0.01187	0.98396	0.00365	0.99411	0.00117	0.70282	0.00882</		

		with confidence threshold θ												
		GlotLID-M		FT176		GlotLID-M $\theta=3$		GlotLID-M $\theta=5$		FT176 $\theta=3$		FT176 $\theta=5$		
iso639-3	FLORES Code(s)	FT176 Code(s)	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
ace	ace	-	<u>0.95757</u>	0.01253	-	-	0.95732	0.0121	0.95689	0.01	-	-	-	-
afr	af	-	<u>1.0</u>	0.0	0.81658	0.00033	1.0	0.0	1.0	0.0	<u>0.82312</u>	6e-05	0.76132	0.0
aka	aka/twi	-	0.99876	0.00014	-	-	<u>0.99901</u>	0.0	0.99901	0.0	-	-	-	-
amh	amh	am	<u>0.99951</u>	0.00014	0.66689	0.01108	0.99951	0.00014	0.99951	0.00012	0.66689	0.01069	0.66799	0.00991
ara	ar/ars/acm/ary/aeb/acq/apc/arb/ajp	ar/arz	<u>0.93243</u>	0.06899	0.78539	0.04342	0.92725	0.0666	0.92631	0.05753	0.7875	0.04127	<u>0.80111</u>	0.03454
asm	asm	as	<u>1.0</u>	0.0	0.99553	0.0	1.0	0.0	1.0	0.0	0.99553	0.0	0.99553	0.0
ast	ast	ast	0.99209	0.00113	0.47151	0.00067	<u>0.99308</u>	0.00082	0.99257	0.00062	<u>0.47655</u>	0.00012	0.36055	2e-05
awa	awa	aw	-	0.38951	0.00014	-	<u>0.38982</u>	0.0	0.35313	0.0	-	-	-	-
aym	ayr	ayr	-	0.99655	0.00099	-	<u>0.99951</u>	0.00014	0.99951	0.00012	-	-	-	-
aze	azb/azj	az/azb	<u>0.71808</u>	0.00056	0.74843	0.0041	0.71546	0.00041	0.69627	0.00025	0.76746	0.00295	<u>0.77402</u>	0.002
bak	bak	ba	-	<u>1.0</u>	0.0	0.98705	5e-05	1.0	0.0	1.0	<u>0.98754</u>	4e-05	0.98751	1e-05
bam	bam	bm	-	0.52563	0.12687	-	0.52664	0.12179	<u>0.53084</u>	0.10741	-	-	-	-
ban	ban	bn	-	0.97521	0.00014	-	<u>0.97571</u>	0.0	0.97467	0.0	-	-	-	-
bar	-	bar	-	-	-	4e-05	-	-	-	-	-	0	-	0
bcl	bcl	bcl	-	-	-	0.00018	-	-	-	-	-	1e-05	-	0
bel	bel	be	-	<u>1.0</u>	0.0	<u>0.99951</u>	0.0	1.0	0.0	1.0	0.99951	0.0	0.99901	0.0
bem	bem	bm	-	0.9906	0.00113	-	<u>0.99256</u>	0.00054	0.99256	0.00049	-	-	-	-
ben	ben	bn	<u>0.99852</u>	0.00014	0.66187	0.01133	0.99852	0.00014	0.99852	0.00012	<u>0.6647</u>	0.0108	0.6647	0.01006
bho	bho	bn	-	0.94329	0.01098	-	0.94374	0.01047	<u>0.94846</u>	0.00605	-	-	-	-
bih	-	bh	-	-	-	0.00118	-	-	-	-	-	0.00113	-	0.00054
bod	bod	bo	<u>0.94589</u>	0.00014	0.66667	0.01109	0.94589	0.00014	0.94589	0.00012	<u>0.66755</u>	0.01066	0.66755	0.00993
bre	-	br	-	-	-	0.00278	-	-	-	-	-	0.00022	-	5e-05
bug	bug	bg	-	<u>0.99802</u>	0.00014	-	0.99703	0.0	0.99404	0.0	-	-	-	-
bul	bul	bg	<u>0.99951</u>	0.0	<u>0.99802</u>	2e-05	0.99951	0.0	0.99951	0.0	0.99802	2e-05	0.99753	1e-05
cat	cat	ca	-	<u>1.0</u>	0.0	0.67245	0.01069	1.0	0.0	1.0	0.7861	0.00574	<u>0.87855</u>	0.00249
cbk	cbk	cbk	-	-	-	0.00035	-	-	-	-	-	3e-05	-	0
ceb	ceb	cs	<u>0.99503</u>	0.0	0.85532	0.00265	0.99454	0.0	0.99404	0.0	0.8684	0.00221	<u>0.89669</u>	0.00118
ces	ces	cs	<u>0.99951</u>	0.00014	0.94535	0.00128	0.99951	0.00014	0.99901	0.00012	0.98015	0.00043	<u>0.98971</u>	0.00019
che	-	ce	-	-	-	5e-05	-	-	-	-	-	0	-	0
chj	chj	ck	-	<u>0.84493</u>	0.00014	-	0.83429	0.00014	0.79834	0.00012	-	-	-	-
ckb	ckb	ckb	-	<u>1.0</u>	0.0	0.99803	3e-05	1.0	0.0	1.0	0.99951	0.0	0.99951	0.0
cor	-	kw	-	-	-	0.00264	-	-	-	-	-	4e-05	-	0
cos	-	co	-	0.00042	-	9e-05	-	0.00041	-	0.00025	-	1e-05	-	0
crh	crh	ch	-	<u>0.98851</u>	0.0	-	0.988	0.0	0.988	0.0	-	-	-	-
cym	cym	cy	0.99951	0.00014	0.74279	0.00755	0.99951	0.00014	<u>1.0</u>	0.0	<u>0.97985</u>	0.00027	0.97881	0.0
dan	dan	da	0.9931	0.00127	0.91718	0.00145	0.99505	0.00054	<u>0.99554</u>	0.00025	0.93032	0.00107	<u>0.93853</u>	0.00049
deu	deu	de	<u>0.99901</u>	0.0	0.63409	0.01279	0.99901	0.0	0.99852	0.0	0.96935	0.00068	<u>0.98732</u>	0.00026
din	dik	-	-	<u>0.99802</u>	0.00014	-	0.99802	0.0	0.99752	0.0	-	-	-	-
diq	diq	diq	-	-	-	0.00028	-	0.00027	-	0.00025	-	0	-	0
dsb	-	dsb	-	-	-	2e-05	-	-	-	-	-	0	-	0
dyu	dyu	-	-	<u>0.12435</u>	0.03591	-	0.11878	0.03466	0.11186	0.03136	-	-	-	-
dzo	dzo	-	-	<u>0.9496</u>	0.0145	-	0.9491	0.014	0.9491	0.01272	-	-	-	-
ell	ell	el	-	<u>1.0</u>	0.0	0.99167	0.00019	1.0	0.0	1.0	<u>1.0</u>	0.0	1.0	0.0
eml	-	eml	-	-	-	0.00113	-	0.00082	-	0.00062	-	0.0001	-	0
eng	eng	en	0.9878	0.00352	0.09376	0.21432	0.99215	0.00204	<u>0.99556</u>	0.00074	0.42352	0.02914	<u>0.82545</u>	0.00422
epo	epo	eo	0.99901	0.00028	0.58053	0.01599	0.99951	0.00014	<u>1.0</u>	0.0	0.96148	0.00085	<u>0.99606</u>	6e-05
est	est	et	0.99852	0.00042	0.86428	0.00335	<u>0.99951</u>	0.00014	0.99951	0.00012	0.97997	0.00034	<u>0.98756</u>	5e-05
eus	eus	eu	<u>0.99951</u>	0.0	0.8848	0.00286	0.99951	0.0	0.99951	0.0	0.98531	0.00025	<u>0.98905</u>	4e-05
ewe	ewe	-	-	<u>1.0</u>	0.0	-	1.0	0.0	1.0	0.0	-	-	-	-
fao	fao	-	-	<u>0.99951</u>	0.0	-	0.99951	0.0	0.99951	0.0	-	-	-	-
fas	pes/prs	fa	0.79937	0.14306	0.85221	0.00769	0.80032	0.13728	<u>0.82343</u>	0.10716	0.85491	0.00727	<u>0.87129</u>	0.00589
fi	fi	fi	-	<u>0.99901</u>	0.0	-	0.99901	0.0	0.99901	0.0	-	-	-	-
fin	fin	fi	0.99951	0.00014	0.46242	0.02578	<u>1.0</u>	0.0	1.0	0.0	0.69102	0.00957	<u>0.85981</u>	0.00325
fon	fon	-	-	<u>0.99752</u>	0.0	-	0.99752	0.0	0.99703	0.0	-	-	-	-
fra	fra	fr	<u>0.99951</u>	0.00014	0.49378	0.02273	0.99951	0.00014	0.99852	0.00012	0.81844	0.00475	<u>0.94619</u>	0.00112
frr	frr	frr	-	-	-	0.00042	-	0.00041	-	0.00025	-	0	-	0
fry	-	fy	-	-	-	0.00022	-	-	-	-	-	1e-05	-	0
fur	fur	-	-	0.99951	0.00014	-	0.99951	0.00014	<u>1.0</u>	0.0	-	-	-	-
fuv	fuv	-	-	<u>0.96738</u>	0.00014	-	0.96099	0.0	0.94693	0.0	-	-	-	-
gla	gla	gd	0.99951	0.00014	0.95846	0.00018	<u>1.0</u>	0.0	1.0	0.0	0.91609	2e-05	0.71818	0.0
gle	gle	ga	<u>1.0</u>	0.0	0.85702	0.00354	1.0	0.0	1.0	0.0	0.88839	0.00231	<u>0.90054</u>	0.00098
glg	glg	gl	<u>0.99703</u>	0.00028	0.889	0.00081	0.99703	0.00027	0.99703	0.00012	<u>0.91426</u>	0.00021	0.88375	1e-05
glv	glv	gv	-	-	-	0.00018	-	-	-	-	-	2e-05	-	0
gom	gom	gom	-	-	-	0.00019	-	-	-	-	-	0	-	0
grn	grn	gn	<u>1.0</u>	0.0	<u>0.77784</u>	0.00064	1.0	0.0	1.0	0.0	0.60893	0.0	0.2891	0.0
gsw	gsw	als	-	0.00028	-	0.00042	-	0.00027	-	0.00025	-	5e-05	-	0
guj	guj	gu	<u>1.0</u>	0.0	0.99754	5e-05	1.0	0.0	1.0	0.0	<u>1.0</u>	0.0	1.0	0.0
hat	hat	ht	0.99852	0.00042	0.48932	0.0017	0.99852	0.00041	<u>0.99901</u>	0.00025	0.22877	0.00011	0.05374	2e-05
hau	hau	cs	-	0.95924	0.01211	-	0.98348	0.00462	<u>0.99313</u>	0.00173	-	-	-	-
hbs	srp/bos/hrv	bs/hr/sr	0.99868	0.00099	0.80096	0.01623	0.99901	0.00068	<u>0.99984</u>	0.0	0.97202	0.00092	0.77693	7e-05
heb	heb	he	-	<u>1.0</u>	0.0	<u>1.0</u>	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0
hif	hif	hi	-	0.00084	2e-05	-	0.00068	0.0	0.00049	0.0	-	-	-	-
hin	hin	hi	0.67624	0.13644	0.2581	0.06373	0.67692	0.1313	<u>0.69697</u>	0.10864	0.25813	0.06152	<u>0.26337</u>	0.05577
hne	hne	-	-	0.90296	0.00634	-	<u>0.90343</u>	0.00598	0.898	0.00444	-	-	-	-
hsb	hsb	hsb	-	-	-	7e-05	-	-	-	-	-	1e-05	-	0
hun	hun	hu	<u>1.0</u>	0.0	0.88772	0.0028	1.0	0.0	0.99951	0.0	0.98828	0.00025	<u>0.99704</u>	5e-05
hye	hye	hy	<u>1.0</u>	0.0	0.99754	5e-05	1.0	0.0	1.0	0.0	<u>1.0</u>	0.0	1.0	0.0
ibo	ibo	-	-	0.99951	0.00014	-	<u>1.0</u>	0.0	1.0	0.0	-	-	-	-
ido	-	io	-	-	-	0.003	-	-	-	-	-	0.00015	-	2e-05
ile	-	ie	-	-	-	0.00022	-	-	-	-	-	0	-	0
ilo	ilo	ilo	<u>0.99951</u>	0.00014	0.79124	0.00553	0.99951	0.00014	0.99951	0.00012	<u>0.91814</u>	0.00125	0.88235	0.00014
ina	-	ia	-	-	-	0.00045	-	-	-	-	-	4e-05	-	0
isl	isl	is	0.99901	0.00028	0.69613	0.0096	<u>0.99951</u>	0.00014	0.99951	0.00012	0.70219	0.009	<u>0.72313</u>	0.00741
ita	ita	it	0.99803	0.00042	0.3149	0.04818	0.99852	0.00027	<u>0.99901</u>	0.00012	0.46925	0.02418	<u>0.63128</u>	0.01162
jav	jav	sv	0.98442	0.00436	<u>0.70892</u>	0.00342	0.99166	0.00217	<u>0.99213</u>	0.0016	0.69871	0.00047	<u>0.39526</u>	3e-05
jbo	jbo	-	-	-	-	0.00049	-	-	-	-	-	5e-05	-	0
jpn	jpn	ja	<u>1.0</u>	0.0	0.86607	0.00343	1.0	0.0	1.0	0.0	0.99803	4e-05	<u>1.0</u>	0.0
kab	kab	-	-	0.86127	0.02971	-	0.87886	0.02284	<u>0.90909</u>	0.0121	-	-	-	-
kac	kac	-	-	<u>1.0</u>	0.0	-	1.0	0.0	1.0	0.0	-	-	-	-
kam	kam	km	-	<u>0.91658</u>	0.00014	-	0.							

			with confidence threshold θ											
iso639-3	FLORES Code(s)	FT176 Code(s)	GlottLID-M		FT176		GlottLID-M $\theta=3$		GlottLID-M $\theta=5$		FT176 $\theta=3$		FT176 $\theta=5$	
			F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow
ltz	ltz	lb	0.99951	0.0	<u>0.95608</u>	0.0011	0.99901	0.0	0.99901	0.0	0.94966	0.0	0.89035	0.0
lua	lua	-	0.99653	0.00014			0.99553	0.0	0.99404	0.0				
lug	lug	-	0.99603	0.0			0.99603	0.0	0.99454	0.0				
luo	luo	-	1.0	0.0			1.0	0.0	0.99951	0.0				
lus	lus	-	0.99653	0.00014			0.99703	0.0	0.99653	0.0				
mag	mag	-	0.95459	0.00338			0.95507	0.00313	0.95408	0.0016				
mai	mai	mai	0.97366	0.00014	<u>0.32838</u>	1e-05	0.97366	0.00014	0.97102	0.0	0.32838	1e-05	0.16998	0.0
mal	mal	ml	1.0	0.0	0.97683	0.00053	1.0	0.0	1.0	0.0	0.99951	1e-05	1.0	0.0
mar	mar	mr	1.0	0.0	0.9907	0.00021	1.0	0.0	1.0	0.0	0.9907	0.0002	<u>0.99655</u>	7e-05
mkd	mkd	mk	1.0	0.0	0.99556	7e-05	1.0	0.0	1.0	0.0	<u>0.99654</u>	4e-05	<u>0.99654</u>	4e-05
mlg	mlg	plt	0.99951	0.00014	<u>0.79112</u>	0.00055	0.99951	0.00014	0.99951	0.00012	0.51211	2e-05	0.20885	0.0
mlt	mlt	mt	0.97778	0.00648	<u>0.91161</u>	0.00139	0.99216	0.00217	0.99803	0.00049	0.90527	5e-05	0.75599	0.0
mni	mni	-	0.99901	0.00014			0.99901	0.00014	0.99901	0.00012				
mon	mon	khk	1.0	0.0	0.99951	1e-05	1.0	0.0	0.99951	0.0	1.0	0.0	0.99951	0.0
mos	mos	-	0.98138	0.0			0.97415	0.0	0.96418	0.0				
mri	mri	-	0.99901	0.00014			0.99951	0.0	0.99901	0.0				
mrj	-	mrj				3e-05							0	0
msa	min/ind/bjn/zsm	id/min/ms	0.97122	0.02591	0.52247	0.05449	0.97515	0.01821	0.97478	0.01333	<u>0.65691</u>	0.01246	0.57549	0.00236
mwl	-	mwl				3e-05							0	0
mya	mya	my	1.0	0.0	0.66689	0.01108	1.0	0.0	1.0	0.0	0.66755	0.01066	<u>0.6702</u>	0.00981
mzn	-	mzn		0.00197		0.00019		0.00177		0.00062		6e-05	1e-05	1e-05
nah	-	nah				5e-05						0	0	0
nap	-	nap				0.00026						1e-05	1e-05	1e-05
nds	-	nds				0.00016						7e-05	3e-05	3e-05
nep	-	ne	0.99852	0.00028	0.98671	0.00019	0.99852	0.00027	0.99951	0.0	0.98768	0.00016	0.9901	8e-05
nld	-	nl	0.99803	0.00056	0.60661	0.01433	0.99901	0.00027	0.99901	0.00012	0.69464	0.00937	<u>0.77509</u>	0.00572
nno	-	nn	0.98507	0.00113	0.63506	0.00034	0.98606	0.00082	0.986	0.00025	<u>0.66016</u>	0.00018	0.59654	2e-05
nob	-	no	0.98185	0.00366	0.71096	0.00772	0.95835	0.00353	0.89931	0.00259	0.74733	0.00605	<u>0.76308</u>	0.00435
nso	-	ns	0.99704	0.0007			0.99704	0.00068	0.99655	0.00062				
nus	-	nus	0.99951	0.0			0.99951	0.0	0.99951	0.0				
nya	-	ny	0.99753	0.00056			0.99803	0.00041	0.99852	0.00012				
oci	-	oc	0.99951	0.00014	0.70333	0.0017	1.0	0.0	0.99951	0.0	<u>0.73798</u>	0.0004	0.63818	8e-05
ori	-	or	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
orm	-	oz	0.99167	0.00239			0.99655	0.00095	0.99803	0.00049				
pag	-	pag	0.99852	0.0			0.99852	0.0	0.99852	0.0				
pam	-	pam				0.00031						2e-05	0	0
pan	-	pa	1.0	0.0	0.99951	1e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
pap	-	pap	0.99069	0.00253			0.99118	0.00231	0.99557	0.00099				
pfl	-	pfl				2e-05						0	0	0
pms	-	pms				0.00162						0.00042	0.00012	0.00012
pnb	-	pnb		0.00253		0.0026		0.00245		0.00136		0.00246	0.00145	0.00145
pol	-	pl	0.9907	0.00268	0.49198	0.0229	0.99167	0.00231	0.99167	0.0021	0.6529	0.01138	<u>0.66601</u>	0.01
por	-	pt	0.99655	0.00099	0.62192	0.01343	0.99704	0.00082	0.99704	0.00062	0.81947	0.00469	<u>0.92062</u>	0.00168
pus	-	ps	0.88805	0.00225	0.9861	0.0001	0.88853	0.00204	<u>0.89142</u>	0.00111	0.98757	6e-05	0.98295	2e-05
que	-	qu	0.99901	0.00014	<u>0.78925</u>	0.00273	0.99951	0.0	0.99901	0.0	0.73444	0.00016	0.38209	0.0
roh	-	rm				0.00138						0.0001	1e-05	1e-05
ron	-	ro	0.99951	0.0	0.75522	0.00719	0.99951	0.0	0.99951	0.0	0.93791	0.00142	<u>0.9902</u>	0.00018
run	-	ru	0.92541	0.02182			0.92584	0.02093	0.92627	0.01889				
rus	-	ru	0.99901	0.00014	0.91501	0.00206	0.99901	0.00014	0.99901	0.00012	0.99216	0.00017	<u>0.99557</u>	9e-05
sag	-	sag	0.99901	0.0			0.99901	0.0	0.99901	0.0				
san	-	sa	0.99104	0.00014	<u>0.95791</u>	3e-05	0.99104	0.00014	0.99103	0.0	0.95791	3e-05	0.95189	1e-05
sat	-	sat	1.0	0.0			1.0	0.0	1.0	0.0				
scn	-	scn	0.99802	0.00014	<u>0.48256</u>	0.00059	0.99802	0.00014	0.99852	0.0	0.33826	0.0	0.12419	0.0
sco	-	sco		0.0007		0.00024		0.00041		0.00025		1e-05	0	0
shn	-	shn	1.0	0.0			1.0	0.0	1.0	0.0				
sin	-	si	1.0	0.0	0.99951	1e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
slk	-	sk	0.99852	0.00014	0.97443	0.00034	0.99852	0.00014	0.99901	0.0	<u>0.98753</u>	3e-05	0.9824	0.0
slv	-	sl	0.99508	0.00141	0.6687	0.01048	0.99655	0.00095	0.99951	0.00012	<u>0.94732</u>	0.00081	0.93215	0.00011
smo	-	smo	0.99603	0.0			0.99603	0.0	0.99603	0.0				
sna	-	sna	0.99951	0.00014			0.99951	0.00014	1.0	0.0				
snd	-	sd	0.99606	0.00113	0.98623	0.00021	0.99606	0.00109	0.99704	0.00074	0.98964	0.00013	<u>0.99405</u>	3e-05
som	-	so	0.97028	0.00873	<u>0.56777</u>	0.00055	0.98973	0.00285	0.99803	0.00049	0.10467	2e-05	0.00197	0.0
sot	-	sot	1.0	0.0			1.0	0.0	1.0	0.0				
spa	-	es	0.99508	0.00141	0.30413	0.05073	0.99508	0.00136	0.99508	0.00111	0.57615	0.01575	<u>0.72832</u>	0.00744
sqj	-	sq	0.99901	0.00028	0.82767	0.0046	1.0	0.0	1.0	0.0	0.92795	0.00165	<u>0.95549</u>	0.0009
srd	-	sc	0.99951	0.0	<u>0.02822</u>	0.00039	0.99901	0.0	0.99901	0.0	0.0	2e-05	0.0	0.0
ssw	-	ssw	0.99455	0.00042			0.99455	0.00041	0.99455	0.00037				
sun	-	su	0.9906	0.00113	0.51105	0.00995	0.99306	0.00041	0.99304	0.00012	<u>0.65131</u>	0.00044	0.41875	0.0
swa	-	sw	0.96611	0.01	0.27392	0.05511	0.97542	0.00693	0.98635	0.00346	0.53494	0.0138	0.62159	0.00248
swe	-	sv	0.99803	0.00056	0.95652	0.00101	0.99951	0.00014	1.0	0.0	0.98538	0.00031	<u>0.99357</u>	6e-05
szl	-	szl	0.99104	0.00014			0.99104	0.00014	0.99104	0.00012				
tam	-	ta	1.0	0.0	0.99557	0.0001	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
taq	-	taq	0.80906	0.0483			0.83861	0.02664	0.84449	0.01111				
tat	-	tt	1.0	0.0	0.98583	0.00028	1.0	0.0	1.0	0.0	<u>0.98922</u>	0.0002	0.98917	0.00015
tel	-	te	1.0	0.0	0.99901	2e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tgk	-	tg	1.0	0.0	0.99556	7e-05	1.0	0.0	1.0	0.0	<u>0.99802</u>	1e-05	0.99752	0.0
tgl	-	tl	0.99951	0.00014	0.27747	0.0576	0.99901	0.00014	0.99901	0.00012	0.77129	0.00631	<u>0.94112</u>	0.00119
tha	-	th	1.0	0.0	0.99754	5e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tir	-	tir	0.98851	0.0			0.98851	0.0	0.988	0.0				
tpi	-	tpi	0.99951	0.0			0.99951	0.0	0.99901	0.0				
tsn	-	tsn	0.99753	0.00014			0.99753	0.00014	0.99753	0.00012				
tso	-	tso	0.99753	0.00056			0.99753	0.00054	0.99901	0.00012				
tuk	-	tk	0.99951	0.00014	<u>0.92876</u>	3e-05	0.99951	0.00014	0.99951	0.00012	0.91416	0.0	0.82394	0.0
tum	-	tum	0.99852	0.00028			0.99901	0.00014	0.99901	0.0				
tur	-	tr	0.99119	0.00253	0.56113	0.01734	0.99119	0.00245	0.99119	0.00222	0.64768	0.01164	<u>0.67692</u>	0.00952
tzm	-	tzm	0.94421	0.01338			0.94421	0.01291	0.94524	0.01062				
uig	-	ug	1.0	0.0	0.99901	2e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
ukr	-	uk	0.99951	0.00014	0.96657	0.00077	0.99951	0.00014	0.99951	0.00012	1.0	0.0	1.0	0.0
umb	-	umb	0.88585	0.00113			0.8781	0.00						

			with confidence threshold θ											
iso639-3	FLORES Code(s)	OpenLID Code(s)	GlottLID-M		OpenLID		GlottLID-M $\theta=0.3$		GlottLID-M $\theta=0.5$		OpenLID $\theta=0.3$		OpenLID $\theta=0.5$	
			F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow
ace	ace	ace	0.95503	0.00579	0.96012	0.00734	0.955	0.00426	0.95689	0.00299	0.96012	0.00734	0.96099	0.0067
acm	acm	acm	0.01562	0.00023	0.03279	0.00051	0.00784	0.00017	0.00393	0.00011	0.03282	0.00051	0.02713	0.00038
acq	acq	acq	0.00197	6e-05	0.00197	0.0	0.00197	4e-05	0.00197	0.0	0.00197	0.0	0.00197	0.0
aeb	aeb	aeb	0.28501	0.00199	0.33982	0.00624	0.20348	0.00089	0.15064	0.00026	0.34033	0.00624	0.32223	0.00444
afr	afr	afr	1.0	0.0	0.99951	0.0	1.0	0.0	1.0	0.0	0.99951	0.0	0.99951	0.0
ajp	ajp	ajp	0.10836	0.00102	0.19064	0.00206	0.09328	0.00042	0.05369	0.00011	0.18924	0.00206	0.14808	0.00163
aka	aka/twi	twi	0.99852	0.0	0.99852	0.0	0.99852	0.0	0.99852	0.0	0.99852	0.0	0.99802	0.0
als	als	als	0.99852	0.00011	0.99951	6e-05	0.67539	0.0	0.44785	0.0	1.0	6e-05	1.0	0.0
amh	amh	amh	0.99951	6e-05	0.99951	6e-05	0.99951	4e-05	0.99951	4e-05	0.99951	6e-05	0.99951	6e-05
apc	apc	apc	0.17857	0.00915	0.23324	0.01287	0.13223	0.00498	0.09179	0.00255	0.23229	0.01287	0.21749	0.01001
arb	arb	arb	0.25705	0.21515	0.24409	0.14709	0.12788	0.06529	0.09585	0.03457	0.24413	0.14709	0.24699	0.13319
ars	ars	ars	0.00894	0.00574	0.01843	0.0179	0.00377	0.00202	0.00387	0.00074	0.01846	0.0179	0.01784	0.01314
ary	ary	ary	0.56588	0.05164	0.48937	0.09958	0.71835	0.00578	0.69151	0.00218	0.48966	0.09958	0.50306	0.08957
arz	arz	arz	0.46309	0.09806	0.42345	0.14168	0.57422	0.03125	0.58652	0.01647	0.42387	0.14168	0.43993	0.12643
asm	asm	asm	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
ast	ast	ast	0.9916	0.00051	0.99011	0.00058	0.99308	0.00025	0.99257	0.00018	0.99011	0.00058	0.99009	0.00044
awa	awa	awa	0.38951	6e-05	0.67704	0.00051	0.38982	0.0	0.35313	0.0	0.67704	0.00051	0.64761	0.00031
ayr	ayr	ayr	0.99557	0.00045	0.99852	0.00019	0.96738	4e-05	0.93193	0.0	0.99852	0.00019	0.99951	6e-05
azb	azb	azb	0.36583	0.00011	0.75139	0.0	0.25065	0.0	0.13112	0.0	0.75139	0.0	0.74286	0.0
azj	azj	azj	0.99901	0.0	0.99901	6e-05	0.49963	0.0	0.27304	0.0	0.99901	6e-05	0.99901	6e-05
bak	bak	bak	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
bam	bam	bam	0.52563	0.05119	0.61044	0.06424	0.52664	0.03779	0.53084	0.03213	0.61123	0.06424	0.61308	0.0614
ban	ban	ban	0.97521	6e-05	0.97887	0.00019	0.97571	0.0	0.97467	0.0	0.97937	0.00019	0.97885	0.00013
bel	bel	bel	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
bem	bem	bem	0.9906	0.00045	0.97961	0.00251	0.99256	0.00017	0.99256	0.00015	0.98152	0.00251	0.99116	0.00094
ben	ben	ben	0.99852	6e-05	0.99253	0.0	0.99852	4e-05	0.99852	4e-05	0.99253	0.0	0.99253	0.0
bho	bho	bho	0.94329	0.00443	0.89206	0.01481	0.94374	0.00325	0.94846	0.00181	0.89206	0.01481	0.90785	0.01195
bjn	bjn	bjn	0.79496	0.05329	0.79638	0.06225	0.7956	0.03927	0.79547	0.03335	0.79638	0.06225	0.79741	0.05965
bod	bod	bod	0.94589	6e-05	0.80449	0.0	0.94589	4e-05	0.94589	4e-05	0.80449	0.0	0.80378	0.0
bos	bos	bos	0.58206	0.00312	0.69239	0.01229	0.57353	0.00232	0.49605	0.00126	0.69239	0.01229	0.69172	0.01183
bug	bug	bug	0.99802	6e-05	0.99654	0.00013	0.99703	0.0	0.99404	0.0	0.99653	0.00013	0.99703	0.0
bul	bul	bul	0.99951	0.0	1.0	0.0	0.99951	0.0	0.99951	0.0	1.0	0.0	0.99951	0.0
cat	cat	cat	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.99951	0.0
ceb	ceb	ceb	0.99503	0.0	0.99951	6e-05	0.99454	0.0	0.99404	0.0	0.99951	6e-05	1.0	0.0
ces	ces	ces	0.99951	6e-05	0.99753	0.00019	0.99951	4e-05	0.99901	4e-05	0.99704	0.00019	0.99704	0.00019
cjk	cjk	cjk	0.84493	6e-05	0.90232	0.00032	0.83429	4e-05	0.79834	4e-05	0.89554	0.00032	0.8716	0.00019
ckb	ckb	ckb	0.99901	0.00011	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
crh	crh	crh	0.98902	6e-05	0.99204	6e-05	0.988	0.0	0.988	0.0	0.99204	6e-05	0.99204	6e-05
cym	cym	cym	0.99951	6e-05	1.0	0.0	0.99951	4e-05	1.0	0.0	1.0	0.0	1.0	0.0
dan	dan	dan	0.9931	0.00051	0.98661	0.00064	0.99505	0.00017	0.99554	7e-05	0.98758	0.00064	0.98757	0.00038
deu	deu	deu	0.99901	0.0	1.0	0.0	0.99901	0.0	0.99852	0.0	1.0	0.0	1.0	0.0
dik	dik	dik	0.99653	6e-05	0.99951	0.0	0.99653	0.0	0.99454	0.0	0.99901	0.0	0.99802	0.0
dyu	dyu	dyu	0.12435	0.01449	0.04212	0.00367	0.11878	0.01075	0.11186	0.00938	0.04212	0.00367	0.04033	0.00357
dzo	dzo	dzo	0.9496	0.00585	0.85848	0.02131	0.9491	0.00434	0.9491	0.0038	0.85848	0.02131	0.85848	0.02072
ell	ell	ell	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
eng	eng	eng	0.98732	0.00148	0.99263	0.00084	0.99215	0.00063	0.99556	0.00022	0.99308	0.00084	0.99256	0.00025
epo	epo	epo	0.99852	0.00017	0.99901	0.00013	0.99951	4e-05	1.0	0.0	1.0	0.00013	0.99951	0.0
est	est	est	1.0	0.0	0.99753	0.00026	1.0	0.0	1.0	0.0	0.99901	0.00026	0.99802	0.0
eus	eus	eus	0.99951	0.0	0.99704	0.00032	0.99951	0.0	0.99951	0.0	0.99852	0.00032	0.99951	0.0
ewe	ewe	ewe	1.0	0.0	0.99803	0.00026	1.0	0.0	1.0	0.0	0.99803	0.00026	0.99803	0.00025
fao	fao	fao	0.99951	0.0	1.0	0.0	0.99951	0.0	0.99951	0.0	1.0	0.0	1.0	0.0
fij	fij	fij	0.99951	0.0	0.99852	6e-05	0.99901	0.0	0.99901	0.0	0.99852	6e-05	0.99852	6e-05
fin	fin	fin	0.99901	0.00011	0.99951	6e-05	1.0	0.0	1.0	0.0	1.0	6e-05	1.0	0.0
fon	fon	fon	0.99752	0.0	0.99802	0.0	0.99752	0.0	0.99703	0.0	0.99802	0.0	0.99802	0.0
fra	fra	fra	0.99951	6e-05	0.99503	0.0	0.99951	4e-05	0.99852	4e-05	0.99454	0.0	0.99253	0.0
fur	fur	fur	0.99951	6e-05	0.99852	0.00019	0.99951	4e-05	1.0	0.0	0.99901	0.00019	1.0	0.0
fuv	fuv	fuv	0.96843	6e-05	0.98649	6e-05	0.96099	0.0	0.94693	0.0	0.98699	6e-05	0.98189	0.0
gaz	gaz	gaz	0.99411	0.00068	0.99264	0.00097	0.90281	0.00017	0.78925	7e-05	0.99508	0.00097	0.99852	0.00019
gla	gla	gla	0.99951	6e-05	0.99704	0.00039	1.0	0.0	1.0	0.0	0.99754	0.00039	0.99901	0.00013
gle	gle	gle	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
glg	glg	glg	0.99703	0.00011	0.99704	0.00032	0.99703	8e-05	0.99703	4e-05	0.99704	0.00032	0.99704	0.00031
grn	grn	grn	1.0	0.0	0.99754	0.00032	1.0	0.0	1.0	0.0	0.99803	0.00032	0.99901	0.00013
guj	guj	guj	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
hat	hat	hat	0.99852	0.00017	0.99655	0.00045	0.99852	0.00013	0.99901	7e-05	0.99754	0.00045	0.99852	0.00019
hau	hau	hau	0.95427	0.00551	0.90196	0.01416	0.98348	0.00143	0.99313	0.00052	0.93143	0.01416	0.97495	0.00325
heb	heb	heb	0.99606	0.00045	0.99901	0.00013	1.0	0.0	1.0	0.0	0.99901	0.00013	0.99901	0.00013
hin	hin	hin	0.67444	0.05551	0.84774	0.02279	0.6767	0.04078	0.69697	0.0325	0.8481	0.02279	0.86814	0.01859
hne	hne	hne	0.90296	0.00256	0.93617	0.00406	0.90343	0.00186	0.898	0.00133	0.93617	0.00406	0.9314	0.00344
hrv	hrv	hrv	0.75157	0.03272	0.74355	0.02427	0.75573	0.0237	0.768	0.01666	0.74389	0.02427	0.74309	0.02347
hun	hun	hun	1.0	0.0	1.0	0.0	1.0	0.0	0.99951	0.0	1.0	0.0	0.99951	0.0
hye	hye	hye	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
ibo	ibo	ibo	0.99951	6e-05	0.99951	6e-05	1.0	0.0	1.0	0.0	0.99951	6e-05	0.99951	6e-05
ilo	ilo	ilo	0.99951	6e-05	0.99901	0.00013	0.99951	4e-05	0.99951	4e-05	0.99901	0.00013	0.99951	6e-05
ind	ind	ind	0.91929	0.00983	0.92788	0.00566	0.92775	0.00645	0.93204	0.00528	0.92788	0.00566	0.92728	0.00545
isl	isl	isl	0.99901	0.00011	1.0	0.0	0.99951	4e-05	0.99951	4e-05	1.0	0.0	1.0	0.0
ita	ita	ita	0.99803	0.00017	0.99404	0.0	0.99852	8e-05	0.99901	4e-05	0.99404	0.0	0.99203	0.0
jav	jav	jav	0.98346	0.00187	0.96103	0.00521	0.99166	0.00067	0.99213	0.00048	0.96978	0.00521	0.98394	0.002
jpn	jpn	jpn	1.0	0.0	0.99951	0.0	1.0	0.0	1.0	0.0	0.99951	0.0	0.99951	0.0
kab	kab	kab	0.85967	0.01221	0.83636	0.02549	0.87886	0.00709	0.90909	0.00362	0.8404	0.02549	0.84887	0.02247
kac	kac	kac	1.0	0.0										

		with confidence threshold θ												
		GlotLID-M		OpenLID		GlotLID-M $\theta=.3$		GlotLID-M $\theta=.5$		OpenLID $\theta=.3$		OpenLID $\theta=.5$		
iso639-3	FLORES Code(s)	OpenLID Code(s)	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow
lao	lao	lao	1.0	0.0	1.0	0.0	0.99901	0.0	0.99802	0.0	1.0	0.0	1.0	0.0
lij	lij	lij	0.99901	6e-05	0.99803	0.00019	0.99852	0.00019	0.99753	4e-05	0.99803	0.00019	0.99852	0.00013
lim	lim	lim	0.99253	0.0	0.99654	0.00019	0.99253	0.0	0.99153	0.0	0.99703	0.00019	0.99703	0.00013
lin	lin	lin	0.99901	0.00011	0.99901	0.00013	0.99852	8e-05	0.99901	4e-05	0.99901	0.00013	0.99802	0.00013
lit	lit	lit	0.99951	0.0	0.99852	0.00013	0.99951	0.0	0.99951	0.0	0.99852	0.00013	0.99901	6e-05
lmo	lmo	lmo	0.99554	0.00011	0.99753	0.00026	0.99554	8e-05	0.99504	4e-05	0.99753	0.00026	0.99802	6e-05
ltg	ltg	ltg	0.99653	0.0	0.99852	0.0	0.99653	0.0	0.99503	0.0	0.99852	0.0	0.99802	0.0
ltz	ltz	ltz	0.99951	0.0	0.99951	0.0	0.99901	0.0	0.99901	0.0	0.99951	0.0	0.99951	0.0
lua	lua	lua	0.99653	6e-05	0.99604	6e-05	0.99553	0.0	0.99404	0.0	0.99554	6e-05	0.99553	0.0
lug	lug	lug	0.99653	0.0	0.99409	0.00058	0.99603	0.0	0.99454	0.0	0.99458	0.00058	0.99605	0.00031
luo	luo	luo	1.0	0.0	0.99852	0.00019	1.0	0.0	0.99951	0.0	0.99951	0.00019	0.99951	6e-05
lus	lus	lus	0.99653	6e-05	0.99852	0.0	0.99703	0.0	0.99653	0.0	0.99852	0.0	0.99802	0.0
lvs	lvs	lvs	0.99655	0.00034	0.99901	6e-05	0.92495	0.00021	0.80189	0.00015	0.99901	6e-05	0.99901	6e-05
mag	mag	mag	0.95459	0.00136	0.96204	0.00174	0.95507	0.00097	0.95408	0.00048	0.96204	0.00174	0.96393	0.00138
mai	mai	mai	0.97366	6e-05	0.98802	0.00013	0.97366	4e-05	0.97102	0.0	0.98802	0.00013	0.98701	0.00013
mal	mal	mal	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
mar	mar	mar	1.0	0.0	0.99901	0.00013	1.0	0.0	1.0	0.0	0.99901	0.00013	1.0	0.0
min	min	min	0.6616	0.00017	0.66183	0.00039	<u>0.66182</u>	8e-05	0.66116	4e-05	0.66183	0.00039	0.66205	0.00019
mkd	mkd	mkd	1.0	0.0	0.99951	6e-05	1.0	0.0	1.0	0.0	0.99951	6e-05	0.99951	6e-05
mlt	mlt	mlt	0.97401	0.00307	0.93143	0.00959	0.99216	0.00067	0.99803	0.00015	0.95788	0.00959	0.98684	0.00169
mni	mni	mni	0.99901	6e-05	0.99411	0.00077	0.99901	4e-05	0.99901	4e-05	0.99411	0.00077	0.99411	0.00075
mos	mos	mos	<u>0.98138</u>	0.0	0.9814	6e-05	0.97415	0.0	0.96418	0.0	0.97881	6e-05	0.96997	0.0
mri	mri	mri	0.99901	6e-05	0.99951	6e-05	<u>0.99951</u>	0.0	0.99901	0.0	1.0	6e-05	1.0	0.0
mya	mya	mya	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
nld	nld	nld	0.99803	0.00023	0.99704	0.00019	0.99901	8e-05	0.99901	4e-05	0.99704	0.00019	0.99704	0.00019
nno	nno	nno	0.98507	0.00045	0.98277	0.00135	0.98606	0.00025	0.986	7e-05	0.98277	0.00135	0.98374	0.00119
nob	nob	nob	0.98185	0.00148	0.97188	0.00193	0.95835	0.0011	0.89931	0.00078	0.97086	0.00193	0.96883	0.00188
npi	npi	npi	0.99104	0.00011	0.99803	0.00026	0.53362	8e-05	0.30628	0.0	0.99803	0.00026	0.99803	0.00019
nso	nso	nso	0.99704	0.00028	0.9868	0.00154	0.99704	0.00021	0.99655	0.00018	0.9868	0.00154	0.98776	0.00138
nus	nus	nus	0.99951	0.0	0.99951	0.0	0.99951	0.0	0.99951	0.0	0.99951	0.0	0.99951	0.0
nya	nya	nya	0.99753	0.00023	0.99606	0.00051	0.99803	0.00013	0.99852	4e-05	0.99704	0.00051	0.99754	0.00031
oci	oci	oci	0.99951	6e-05	0.9941	0.00071	1.0	0.0	0.99951	0.0	0.9941	0.00071	0.99557	0.0005
ory	ory	ory	1.0	0.0	1.0	0.0	0.80519	0.0	0.66314	0.0	1.0	0.0	1.0	0.0
pag	pag	pag	0.99852	0.0	0.99901	6e-05	0.99852	0.0	0.99852	0.0	0.99901	6e-05	0.99901	6e-05
pan	pan	pan	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
pap	pap	pap	0.99069	0.00102	0.97681	0.00303	0.99118	0.00072	0.99557	0.0003	0.9787	0.00303	<u>0.9815</u>	0.00213
pbt	pbt	pbt	<u>0.81486</u>	0.00051	0.99704	0.00032	0.76381	0.00025	0.68523	0.00011	0.99704	0.00032	0.99753	0.00025
pes	pes	pes	0.57435	0.08493	0.54791	0.06997	0.60647	0.04812	0.57502	0.02962	0.54829	0.06997	<u>0.55288</u>	0.06641
plt	plt	plt	0.99852	0.0	1.0	0.0	0.99802	0.0	0.99603	0.0	1.0	0.0	1.0	0.0
pol	pol	pol	0.9907	0.00108	0.99411	0.00077	0.99167	0.00072	0.99167	0.00063	0.99606	0.00077	0.99606	0.0005
por	por	por	0.99655	0.0004	0.99408	0.00051	0.99704	0.00025	0.99704	0.00018	0.99457	0.00051	0.99654	0.00019
prs	prs	prs	<u>0.14688</u>	0.0192	0.51273	0.01571	0.14348	0.01135	0.1171	0.00716	0.51273	0.01571	0.51395	0.01502
quy	quy	quy	<u>0.75904</u>	0.0	0.99951	6e-05	0.625	0.0	0.57163	0.0	0.99951	6e-05	1.0	0.0
ron	ron	ron	0.99951	0.0	0.99754	0.00032	0.99951	0.0	0.99951	0.0	0.99852	0.00032	0.99852	0.00019
run	run	run	0.92541	0.00881	0.9044	0.01268	0.92584	0.0065	0.92627	0.00565	0.9044	0.01268	0.90563	0.01214
rus	rus	rus	0.99901	6e-05	0.99901	6e-05	0.99901	4e-05	0.99901	4e-05	0.99901	6e-05	0.99901	0.0
sag	sag	sag	0.99901	0.0	0.99901	0.0	0.99901	0.0	0.99901	0.0	0.99901	0.0	0.99901	0.0
san	san	san	0.99104	6e-05	0.99002	0.0	0.99104	4e-05	0.99103	0.0	0.99002	0.0	0.98749	0.0
sat	sat	sat	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
scn	scn	scn	0.99802	6e-05	0.99507	0.00051	0.99802	4e-05	0.99852	0.0	0.99556	0.00051	0.99556	0.00038
shn	shn	shn	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
sin	sin	sin	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
slk	slk	slk	0.99852	6e-05	0.99654	0.00019	0.99852	4e-05	0.99901	0.0	0.99703	0.00019	0.99753	6e-05
slv	slv	slv	0.99459	0.00062	0.99606	0.00045	0.99655	0.0003	0.99951	4e-05	0.99753	0.00045	0.99951	0.0
smo	smo	smo	0.99603	0.0	0.99852	0.00013	0.99603	0.0	0.99603	0.0	0.99901	0.00013	0.99951	0.0
sna	sna	sna	0.99901	0.00011	0.99411	0.00077	0.99951	4e-05	1.0	0.0	0.99704	0.00077	0.99852	0.00019
snd	snd	snd	0.99362	0.00074	0.99901	0.0	0.99508	0.00042	<u>0.99704</u>	0.00022	0.99901	0.0	0.99901	0.0
som	som	som	0.96657	0.00398	0.97683	0.00309	0.98973	0.00089	0.99803	0.00015	0.98828	0.00309	0.99557	0.00056
sot	sot	sot	1.0	0.0	0.9567	0.0	1.0	0.0	1.0	0.0	0.9567	0.0	0.95401	0.0
spa	spa	spa	0.99508	0.00057	0.99211	0.00064	0.99508	0.00042	0.99508	0.00033	0.9921	0.00064	0.99259	0.0005
srd	srd	srd	0.99951	0.0	0.99606	0.00039	0.99901	0.0	0.99901	0.0	<u>0.99704</u>	0.00039	0.99704	0.00025
srp	srp	srp	0.99901	0.00011	0.99951	0.0	0.99951	4e-05	1.0	0.0	0.99951	0.0	0.99951	0.0
ssw	ssw	ssw	0.99654	0.00023	0.99106	0.00026	0.99456	0.00017	0.99455	0.00011	0.99205	0.00026	0.99254	6e-05
sun	sun	sun	0.99012	0.00057	0.99014	0.00077	0.99355	0.00013	0.99304	4e-05	0.99112	0.00077	0.99259	0.00044
swe	swe	swe	0.99754	0.00028	0.99852	0.00019	0.99951	4e-05	1.0	0.0	1.0	0.00019	1.0	0.0
swh	swh	swh	<u>0.94869</u>	0.00187	0.92378	0.01075	0.91684	0.00072	0.74599	0.00018	0.93015	0.01075	0.95247	0.00632
szl	szl	szl	<u>0.99104</u>	6e-05	0.99504	0.00013	0.99104	4e-05	0.99104	4e-05	0.99554	0.00013	0.99553	0.0
tam	tam	tam	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
taq	taq	taq	0.80642	0.02022	0.82365	0.01635	0.83861	0.00827	<u>0.84449</u>	0.00332	0.83486	0.01635	0.85028	0.00814
tat	tat	tat	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tel	tel	tel	1.0	0.0	0.99901	0.0	1.0	0.0	1.0	0.0	0.99901	0.0	0.99901	0.0
tgk	tgk	tgk	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tgl	tgl	tgl	0.99901	0.00011	1.0	0.0	0.99901	4e-05	0.99901	4e-05	1.0	0.0	0.99951	0.0
tha	tha	tha	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tir	tir	tir	0.98851	0.0	0.99951	0.0	0.98851	0.0	0.988	0.0	0.99951	0.0	0.99951	0.0
tpi	tpi	tpi	0.99951	0.0	1.0	0.0	0.99951	0.0	0.99901	0.0	0.99951	0.0	0.99951	0.0
tsn	tsn	tsn	0.99753	6e-05	0.96932	0.00046	0.99753	4e-05	0.99753	4e-05				

			with confidence threshold θ											
			GlottLID-M		NLLB		GlottLID-M $\theta=3$		GlottLID-M $\theta=5$		NLLB $\theta=3$		NLLB $\theta=5$	
iso639-3	FLORES Code(s)	NLLB Code(s)	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow
ace	ace	ace	0.95503	0.00579	0.93532	0.01209	0.955	0.00426	0.95689	0.00299	0.93532	0.01209	0.9379	0.01076
afr	afr	afr	1.0	0.0	0.99852	0.00011	1.0	0.0	1.0	0.0	0.99901	0.00011	0.99951	0.0
aka	aka	aka	0.99852	0.0	0.82334	0.0058	0.99852	0.0	0.99852	0.0	0.82334	0.0058	0.82272	0.00554
als	als	als	0.99852	0.00011	0.99803	0.00022	0.67539	0.0	0.44785	0.0	0.99901	0.00022	0.99951	5e-05
amh	amh	amh	0.99951	6e-05	0.99901	0.00011	0.99951	4e-05	0.99951	4e-05	0.99951	0.00011	0.99951	5e-05
arb	arb	arb	0.25705	0.21515	0.31812	0.46765	0.12788	0.06529	0.09585	0.03457	0.31814	0.46765	0.31769	0.44516
asm	asm	asm	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
ast	ast	ast	0.9916	0.00051	0.99016	0.00076	0.99308	0.00025	0.99257	0.00018	0.99065	0.00076	0.9926	0.00047
awa	awa	awa	0.38951	6e-05	0.96113	0.00092	0.38982	0.0	0.35313	0.0	0.96113	0.00092	0.96304	0.00062
ayr	ayr	ayr	0.99557	0.00045	0.99802	5e-05	0.96738	4e-05	0.93193	0.0	0.99802	5e-05	0.99852	0.0
azb	azb	azb	0.36583	0.00011	0.8767	0.00119	0.25065	0.0	0.13112	0.0	0.87956	0.00119	0.88136	0.00057
azj	azj	azj	0.99901	0.0	0.99704	0.00033	0.49963	0.0	0.27304	0.0	0.99704	0.00033	0.99704	0.00031
bak	bak	bak	1.0	0.0	0.99901	5e-05	1.0	0.0	1.0	0.0	0.99901	5e-05	0.99901	5e-05
bam	bam	bam	0.52563	0.05119	0.61944	0.05293	0.52664	0.03779	0.53084	0.03213	0.61987	0.05293	0.62064	0.04998
ban	ban	ban	0.97521	6e-05	0.9712	0.00033	0.97571	0.0	0.97467	0.0	0.9712	0.00033	0.97117	0.00026
bel	bel	bel	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
bem	bem	bem	0.9906	0.00045	0.97394	0.00277	0.99256	0.00017	0.99256	0.00015	0.97677	0.00277	0.98922	0.00098
ben	ben	ben	0.99852	6e-05	0.99951	5e-05	0.99852	4e-05	0.99852	4e-05	0.99951	5e-05	0.99951	5e-05
bho	bho	bho	0.94329	0.00443	0.93354	0.00168	0.94374	0.00325	0.94846	0.00181	0.93354	0.00168	0.93416	0.00124
bjn	bjn	bjn	0.79496	0.05329	0.75225	0.06312	0.7956	0.03927	0.79547	0.03335	0.7523	0.06312	0.75747	0.05764
bod	bod	bod	0.94589	6e-05	0.96512	0.00385	0.94589	4e-05	0.94589	4e-05	0.9678	0.00385	0.96569	0.00222
bos	bos	bos	0.58206	0.00312	0.5954	0.0064	0.57353	0.00232	0.49605	0.00126	0.5954	0.0064	0.5949	0.00605
bug	bug	bug	0.99802	6e-05	0.97649	0.0006	0.99703	0.0	0.99404	0.0	0.97747	0.0006	0.97742	0.00036
bul	bul	bul	0.99951	0.0	0.99951	0.0	0.99951	0.0	0.99951	0.0	0.99951	0.0	0.99951	0.0
cat	cat	cat	1.0	0.0	0.98732	0.00141	1.0	0.0	1.0	0.0	0.98828	0.00141	0.99459	0.00057
ceb	ceb	ceb	0.99503	0.0	0.99951	0.0	0.99454	0.0	0.99404	0.0	0.99951	0.0	0.99951	0.0
ces	ces	ces	0.99951	6e-05	0.99901	0.00011	0.99951	4e-05	0.99901	4e-05	0.99951	0.00011	1.0	0.0
ckj	ckj	ckj	0.84493	6e-05	0.86875	0.00098	0.83429	4e-05	0.79834	4e-05	0.8611	0.00098	0.83995	0.00052
ckb	ckb	ckb	0.99901	0.00011	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
crh	crh	crh	0.98902	6e-05	0.98291	0.0	0.988	0.0	0.988	0.0	0.98291	0.0	0.98138	0.0
cym	cym	cym	0.99951	6e-05	0.99951	5e-05	0.99951	4e-05	1.0	0.0	1.0	5e-05	1.0	0.0
dan	dan	dan	0.9931	0.00051	0.99456	0.00022	0.99505	0.00017	0.99554	7e-05	0.99505	0.00022	0.99604	5e-05
deu	deu	deu	0.99901	0.0	0.9907	0.00103	0.99901	0.0	0.99852	0.0	1.0	0.00103	1.0	0.0
dik	dik	dik	0.99653	6e-05	0.99253	0.0	0.99653	0.0	0.99454	0.0	0.99203	0.0	0.99002	0.0
dyu	dyu	dyu	0.12435	0.01449	0.04797	0.00249	0.11878	0.01075	0.11186	0.00938	0.04797	0.00249	0.04621	0.00233
dzo	dzo	dzo	0.9496	0.00585	0.96791	5e-05	0.9491	0.00434	0.9491	0.0038	0.96685	5e-05	0.95405	5e-05
ell	ell	ell	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
eng	eng	eng	0.98732	0.00148	0.97825	0.00244	0.99215	0.00063	0.99556	0.00022	0.98925	0.00244	0.99362	0.00067
epo	epo	epo	0.99852	0.00017	0.99704	0.00033	0.99951	4e-05	1.0	0.0	0.99803	0.00033	0.99901	0.0001
est	est	est	1.0	0.0	0.99852	0.00016	1.0	0.0	1.0	0.0	0.99901	0.00016	0.99951	0.0
eus	eus	eus	0.99951	0.0	0.99852	0.00016	0.99951	0.0	0.99951	0.0	0.99901	0.00016	0.99951	5e-05
ewe	ewe	ewe	1.0	0.0	0.99704	0.00033	1.0	0.0	1.0	0.0	0.99704	0.00033	0.99704	0.00031
fao	fao	fao	0.99951	0.0	0.50517	0.0	0.99951	0.0	0.99951	0.0	0.50517	0.0	0.49852	0.0
fij	fij	fij	0.99951	0.0	1.0	0.0	0.99901	0.0	0.99901	0.0	1.0	0.0	0.99951	0.0
fin	fin	fin	0.99901	0.00011	0.99951	5e-05	1.0	0.0	1.0	0.0	1.0	5e-05	1.0	0.0
fon	fon	fon	0.99752	0.0	0.99703	0.0	0.99752	0.0	0.99703	0.0	0.99703	0.0	0.99703	0.0
fra	fra	fra	0.99951	6e-05	0.99606	0.00038	0.99951	4e-05	0.99852	4e-05	0.99852	0.00038	0.99901	5e-05
fur	fur	fur	0.99951	6e-05	0.99802	0.0	0.99951	4e-05	1.0	0.0	0.99802	0.0	0.99752	0.0
fuv	fuv	fuv	0.96843	6e-05	0.98102	0.00043	0.96099	0.0	0.94693	0.0	0.97842	0.00043	0.97578	0.00016
gaz	gaz	gaz	0.99411	0.00068	0.99951	5e-05	0.90281	0.00017	0.78925	7e-05	0.99951	5e-05	0.99951	5e-05
gla	gla	gla	0.99951	6e-05	0.99803	0.00016	1.0	0.0	1.0	0.0	0.99901	0.00016	0.99901	5e-05
gle	gle	gle	1.0	0.0	0.99803	0.00022	1.0	0.0	1.0	0.0	0.99951	0.00022	0.99951	5e-05
glg	glg	glg	0.99703	0.00011	0.9931	0.00054	0.99703	8e-05	0.99703	4e-05	0.99457	0.00054	0.99605	0.00021
grn	grn	grn	1.0	0.0	0.99654	0.00016	1.0	0.0	1.0	0.0	0.99703	0.00016	0.99703	0.0
guj	guj	guj	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
hat	hat	hat	0.99852	0.00017	0.99852	5e-05	0.99852	0.00013	0.99901	7e-05	0.99852	5e-05	0.99852	0.0
hau	hau	hau	0.95427	0.00551	0.99704	0.00027	0.98348	0.00143	0.99313	0.00052	0.99704	0.00027	0.99802	0.0001
heb	heb	heb	0.99606	0.00045	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
hin	hin	hin	0.67444	0.05551	0.87219	0.01594	0.6767	0.04078	0.69697	0.0325	0.87295	0.01594	0.88558	0.0134
hne	hne	hne	0.90296	0.00256	0.92997	0.00146	0.90343	0.00186	0.898	0.00133	0.92997	0.00146	0.92713	0.00135
hrv	hrv	hrv	0.75157	0.03272	0.73352	0.02901	0.75573	0.0237	0.768	0.01666	0.73382	0.02901	0.73361	0.02758
hun	hun	hun	1.0	0.0	0.99264	0.00081	1.0	0.0	0.99951	0.0	0.99557	0.00081	1.0	0.0
hye	hye	hye	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
ibo	ibo	ibo	0.99951	6e-05	0.99951	5e-05	1.0	0.0	1.0	0.0	1.0	5e-05	0.99951	0.0
ilo	ilo	ilo	0.99951	6e-05	0.99852	0.00016	0.99951	4e-05	0.99951	4e-05	0.99852	0.00016	0.99951	5e-05
ind	ind	ind	0.91929	0.00983	0.81942	0.02294	0.92775	0.00645	0.93204	0.00528	0.82348	0.02294	0.8455	0.018
isl	isl	isl	0.99901	0.00011	0.76205	0.03427	0.99951	4e-05	0.99951	4e-05	0.76205	0.03427	0.76522	0.03213
ita	ita	ita	0.99803	0.00017	0.97212	0.00309	0.99852	8e-05	0.99901	4e-05	0.97634	0.00309	0.98346	0.00171
jav	jav	jav	0.98346	0.00187	0.97674	0.00239	0.99166	0.00067	0.99213	0.00048	0.97769	0.00239	0.98244	0.0016
jpn	jpn	jpn	1.0	0.0	0.98268	0.00087	1.0	0.0	1.0	0.0	0.97702	0.00087	0.96175	0.00031
kab	kab	kab	0.85967	0.01221	0.85787	0.01811	0.87886	0.00709	0.90909	0.00362	0.8586	0.01811	0.86043	0.01692
kac	kac	kac	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
kam	kam	kam	0.92406	6e-05	0.75811	0.00011	0.91416	0.0	0.87368	0.0	0.74892	0.00011	0.70415	0.0001
kan	kan	kan	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
kas	kas	kas	0.97674	0.0	0.97753	5e-05	0.97597	0.0	0.96945	0.0	0.97752	5e-05	0.97545	0.0
kat	kat	kat	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
kaz	kaz	kaz	0.99951</											

			with confidence threshold θ											
iso639-3	FLORES Code(s)	NLLB Code(s)	GlottLID-M		NLLB		GlottLID-M $\theta=3$		GlottLID-M $\theta=5$		NLLB $\theta=3$		NLLB $\theta=5$	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
lmo	lmo	lmo	0.99554	0.00011	0.96961	0.00119	0.99554	8e-05	0.99504	4e-05	0.97003	0.00119	0.96569	0.00067
ltg	ltg	ltg	0.99653	0.0	0.99203	0.0	0.99653	0.0	0.99503	0.0	0.99203	0.0	0.99153	0.0
ltz	ltz	ltz	0.99951	0.0	0.99951	0.0	0.99901	0.0	0.99901	0.0	0.99951	0.0	0.99951	0.0
lua	lua	lua	0.99653	6e-05	0.99358	0.00038	0.99553	0.0	0.99404	0.0	0.99357	0.00038	0.99554	0.0001
lug	lug	lug	0.99653	0.0	0.99214	0.00076	0.99603	0.0	0.99454	0.0	0.99311	0.00076	0.99458	0.00041
luo	luo	luo	1.0	0.0	0.99753	5e-05	1.0	0.0	0.99951	0.0	0.99753	5e-05	0.99703	0.0
lus	lus	lus	0.99653	6e-05	0.99454	5e-05	0.99703	0.0	0.99653	0.0	0.99404	5e-05	0.99303	0.0
lvs	lvs	lvs	0.99653	0.00034	0.99362	0.0007	0.92495	0.00021	0.80189	0.00015	0.99362	0.0007	0.99411	0.00062
mag	mag	mag	0.95459	0.00136	0.9311	0.00233	0.95507	0.00097	0.95408	0.00048	0.9311	0.00233	0.93218	0.00181
mai	mai	mai	0.97366	6e-05	0.98709	0.00043	0.97366	4e-05	0.97102	0.0	0.98709	0.00043	0.98706	0.00031
mal	mal	mal	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
mar	mar	mar	1.0	0.0	0.99508	0.00054	1.0	0.0	1.0	0.0	0.99655	0.00054	0.99901	0.0001
min	min	min	0.6616	0.00017	0.29545	5e-05	0.66182	8e-05	0.66116	4e-05	0.29558	5e-05	0.26341	0.0
mkd	mkd	mkd	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
mlt	mlt	mlt	0.97401	0.00307	0.99901	0.00011	0.99216	0.00067	0.99803	0.00015	0.99951	0.00011	0.99951	5e-05
mni	mni	mni	0.99901	6e-05	0.99951	0.0	0.99901	4e-05	0.99901	4e-05	0.99951	0.0	0.99951	0.0
mos	mos	mos	0.98138	0.0	0.9684	0.0	0.97415	0.0	0.96418	0.0	0.96629	0.0	0.95992	0.0
mri	mri	mri	0.99901	6e-05	0.99852	5e-05	0.99951	0.0	0.99901	0.0	0.99852	5e-05	0.99852	0.0
mya	mya	mya	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
nld	nld	nld	0.99803	0.00023	0.983	0.0019	0.99901	8e-05	0.99901	4e-05	0.98587	0.0019	0.98828	0.00124
nno	nno	nno	0.98507	0.00045	0.9697	0.00228	0.98606	0.00025	0.986	7e-05	0.9697	0.00228	0.97491	0.00155
nob	nob	nob	0.98185	0.00148	0.98289	0.00152	0.95835	0.0011	0.89931	0.00078	0.98385	0.00152	0.98481	0.00124
npi	npi	npi	0.99104	0.00011	0.99803	0.00022	0.53362	8e-05	0.30628	0.0	0.99803	0.00022	0.99852	0.00016
nso	nso	nso	0.99704	0.00028	0.98386	0.00146	0.99704	0.00021	0.99655	0.00018	0.98386	0.00146	0.98579	0.00119
nus	nus	nus	0.99951	0.0	0.99803	0.00016	0.99951	0.0	0.99951	0.0	0.99803	0.00016	0.99852	0.0001
nya	nya	nya	0.99753	0.00023	0.94604	0.00179	0.99803	0.00013	0.99852	4e-05	0.94636	0.00179	0.95175	0.00047
oci	oci	oci	0.99951	6e-05	0.98346	0.00179	1.0	0.0	0.99951	0.0	0.98634	0.00179	0.99118	0.00088
ory	ory	ory	1.0	0.0	1.0	0.0	0.80519	0.0	0.66314	0.0	1.0	0.0	1.0	0.0
pag	pag	pag	0.99852	0.0	0.99703	0.00011	0.99852	0.0	0.99852	0.0	0.99753	0.00011	0.99653	0.0
pan	pan	pan	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
pap	pap	pap	0.99069	0.00102	0.98394	0.00174	0.99118	0.00072	0.99557	0.0003	0.98538	0.00174	0.98681	0.00129
pbt	pbt	pbt	0.81486	0.00051	0.99654	0.00016	0.76381	0.00025	0.68523	0.00011	0.99654	0.00016	0.99555	0.00016
pes	pes	pes	0.57435	0.08493	0.68739	0.04815	0.60647	0.04812	0.57502	0.02962	0.68763	0.04815	0.6893	0.04553
plt	plt	plt	0.99852	0.0	1.0	0.0	0.99802	0.0	0.99603	0.0	1.0	0.0	1.0	0.0
pol	pol	pol	0.9907	0.00108	0.98396	0.00179	0.99167	0.00072	0.99167	0.00063	0.9878	0.00179	0.98925	0.00114
por	por	por	0.99655	0.0004	0.98538	0.00157	0.99704	0.00025	0.99704	0.00018	0.98924	0.00157	0.99312	0.00067
prs	prs	prs	0.14688	0.0192	0.49305	0.00098	0.14348	0.01135	0.1171	0.00716	0.49305	0.00098	0.49305	0.00093
quy	quy	quy	0.75904	0.0	1.0	0.0	0.625	0.0	0.57163	0.0	1.0	0.0	1.0	0.0
ron	ron	ron	0.99951	0.0	0.99852	0.00016	0.99951	0.0	0.99852	0.0	0.99852	0.00016	0.99852	0.00016
run	run	run	0.92541	0.00881	0.97824	0.00114	0.92584	0.0065	0.92627	0.00565	0.97824	0.00114	0.97919	0.00093
rus	rus	rus	0.99901	6e-05	0.99901	0.00011	0.99901	4e-05	0.99901	4e-05	0.99901	0.00011	0.99901	0.0001
sag	sag	sag	0.99901	0.0	0.99703	5e-05	0.99901	0.0	0.99901	0.0	0.99752	5e-05	0.99703	0.0
san	san	san	0.99104	6e-05	0.98853	0.00011	0.99104	4e-05	0.99103	0.0	0.98902	0.00011	0.98495	0.0
sat	sat	sat	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
scn	scn	scn	0.99802	6e-05	0.99361	0.0006	0.99802	4e-05	0.99852	0.0	0.99458	0.0006	0.99458	0.00041
shn	shn	shn	1.0	0.0	0.99852	0.0	1.0	0.0	1.0	0.0	0.99802	0.0	0.99503	0.0
sin	sin	sin	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
slk	slk	slk	0.99852	6e-05	0.99951	5e-05	0.99852	4e-05	0.99901	0.0	1.0	5e-05	1.0	0.0
slv	slv	slv	0.99459	0.00062	0.99852	0.00016	0.99655	0.0003	0.99951	4e-05	0.99951	0.00016	1.0	0.0
smo	smo	smo	0.99603	0.0	0.99852	0.00011	0.99603	0.0	0.99603	0.0	0.99951	0.00011	0.99951	0.0
sna	sna	sna	0.99901	0.00011	0.99411	0.00065	0.99951	4e-05	1.0	0.0	0.99508	0.00065	0.99655	0.00031
snd	snd	snd	0.99362	0.00074	0.99704	0.00033	0.99508	0.00042	0.99704	0.00022	0.99704	0.00033	0.99852	0.00016
som	som	som	0.96657	0.00398	1.0	0.0	0.98973	0.00089	0.99803	0.00015	1.0	0.0	1.0	0.0
sot	sot	sot	1.0	0.0	0.75523	0.0	1.0	0.0	1.0	0.0	0.75523	0.0	0.75062	0.0
spa	spa	spa	0.99508	0.00057	0.99215	0.00081	0.99508	0.00042	0.99508	0.00033	0.99361	0.00081	0.99655	0.00031
srd	srd	srd	0.99951	0.0	0.97726	0.0	0.99901	0.0	0.99901	0.0	0.97519	0.0	0.96735	0.0
srp	srp	srp	0.99901	0.00011	1.0	0.0	0.99951	4e-05	1.0	0.0	1.0	0.0	1.0	0.0
ssw	ssw	ssw	0.99654	0.00023	0.99155	0.00016	0.99456	0.00017	0.99455	0.00011	0.99155	0.00016	0.99204	5e-05
sun	sun	sun	0.99012	0.00057	0.95988	0.00277	0.99355	0.00013	0.99304	4e-05	0.96129	0.00277	0.96781	0.00155
swe	swe	swe	0.99754	0.00028	0.99901	5e-05	0.99951	4e-05	1.0	0.0	0.99951	5e-05	0.99951	0.0
swh	swh	swh	0.94869	0.00187	0.88153	0.01475	0.91684	0.00072	0.74599	0.00018	0.88111	0.01475	0.91328	0.00988
szl	szl	szl	0.99104	6e-05	0.98753	0.00016	0.99104	4e-05	0.99104	4e-05	0.98852	0.00016	0.98901	0.0
tam	tam	tam	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
taq	taq	taq	0.80642	0.02022	0.82223	0.0	0.83861	0.00827	0.84449	0.00332	0.82189	0.0	0.81776	0.0
tat	tat	tat	1.0	0.0	0.99951	0.0	1.0	0.0	1.0	0.0	0.99951	0.0	0.99951	0.0
tel	tel	tel	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tgk	tgk	tgk	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tgl	tgl	tgl	0.99901	0.00011	0.99704	0.00027	0.99901	4e-05	0.99901	4e-05	0.99803	0.00027	0.99852	0.0001
tha	tha	tha	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tir	tir	tir	0.98851	0.0	0.99951	0.0	0.98851	0.0	0.988	0.0	0.99951	0.0	0.99951	0.0
tpi	tpi	tpi	0.99951	0.0	0.99802	0.0	0.99951	0.0	0.99901	0.0	0.99802	0.0	0.99752	0.0
tsn	tsn	tsn	0.99753	6e-05	0.84237	0.02039	0.99753	4e-05	0.99753	4e-05	0.84259	0.02039	0.84577	0.01888
tso	tso	tso	0.99803	0.00023	0.99069	0.00098	0.99753	0.00017	0.99901	4e-05	0.99214	0.00098	0.99606	0.00031
tuk	tuk	tuk	0.99803	0.00023	1.0	0.0	0.99951	4e-05	0.99951	4e-05	1.0	0.0	1.0	0.0
tum	tum	tum	0.99852	0.00011	0.98155	0.00201	0.99901	4e-05	0.99901	0.0	0.98251	0.00201	0.98972	0.00103
tur	tur	tur	0.9907	0.00108	0.98348	0.00184	0.9907	0.0008	0.99119	0.00066	0.98491	0.00184	0.98539	0.00155
twi	twi	twi	0.99951	0.0										

iso639-3	UDHR Code(s)	CLD3 Code(s)	with confidence threshold θ													
			GlottLID-M		CLD3		GlottLID-M $\theta=.3$		GlottLID-M $\theta=.5$		CLD3 $\theta=.5$		CLD3 $\theta=.7$			
			F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow		
aar	aar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
abk	abk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ace	ace	-	0.91603	0.00125	-	-	-	0.91603	0.00122	0.91603	0.00118	-	-	-	-	-
acu	acu	-	0.58635	0.0	-	-	-	0.58635	0.0	0.58065	0.0	-	-	-	-	-
ada	ada	-	0.91045	0.0015	-	-	-	0.9313	0.0011	0.93846	0.00094	-	-	-	-	-
ady	ady	-	0.83495	0.0	-	-	-	0.83495	0.0	0.83495	0.0	-	-	-	-	-
afr	afr	af	0.95238	0.00075	0.85106	0.00096	-	0.96774	0.00049	0.97561	0.00035	0.89552	0.00064	<u>0.93023</u>	0.00041	-
agr	agr	-	0.81429	0.00037	-	-	-	0.82014	0.00024	0.82014	0.00024	-	-	-	-	-
aii	aii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ajg	ajg	-	0.64516	0.00822	-	-	-	0.65217	0.0078	0.65574	0.00743	-	-	-	-	-
alt	alt	-	0.95495	0.00037	-	-	-	0.96364	0.00024	0.96364	0.00024	-	-	-	-	-
amc	amc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ame	ame	-	1.0	0.0	-	-	-	1.0	0.0	1.0	0.0	-	-	-	-	-
amh	amh	am	1.0	0.0	<u>0.7</u>	0.00274	-	1.0	0.0	1.0	0.0	0.7	0.00273	0.7	0.00272	-
ami	ami	-	0.20896	0.0	-	-	-	0.125	0.0	0.09524	0.0	-	-	-	-	-
amr	amr	-	1.0	0.0	-	-	-	0.99187	0.0	0.99187	0.0	-	-	-	-	-
ara	arb	ar	0.89552	0.00174	0.83333	0.00109	-	0.93023	0.0011	0.98361	0.00024	0.85106	0.00096	<u>0.92308</u>	0.00045	-
arl	arl	-	0.99187	0.0	-	-	-	0.99187	0.0	0.99187	0.0	-	-	-	-	-
arn	arn	-	0.93913	0.00012	-	-	-	0.94737	0.0	0.94737	0.0	-	-	-	-	-
ast	ast	-	0.97521	0.00012	-	-	-	0.97521	0.00012	0.98333	0.0	-	-	-	-	-
auc	auc	-	0.01504	0.0	-	-	-	-	-	-	-	-	-	-	-	-
ayr	ayr	-	0.99174	0.00012	-	-	-	0.91071	0.00012	0.84615	0.0	-	-	-	-	-
aze	azj/azb	az	0.6413	0.0081	0.21034	0.01446	-	0.6413	0.00792	0.64658	0.00731	0.22736	0.01253	<u>0.25708</u>	0.00973	-
bam	bam	-	0.49682	0.00723	-	-	-	0.5098	0.00658	0.55319	0.00495	-	-	-	-	-
ban	ban	-	0.98361	0.0	-	-	-	0.98361	0.0	0.97521	0.0	-	-	-	-	-
bax	bax	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bba	bba	-	0.92187	0.00112	-	-	-	0.92913	0.00098	0.93548	0.00071	-	-	-	-	-
bci	bci	-	0.97521	0.00037	-	-	-	0.9916	0.00012	1.0	0.0	-	-	-	-	-
bcl	bcl	-	1.0	0.0	-	-	-	1.0	0.0	0.9916	0.0	-	-	-	-	-
bel	bel	be	0.98333	0.0	0.50633	0.00529	-	0.98333	0.0	0.98333	0.0	0.53571	0.00469	<u>0.61856</u>	0.0033	-
bem	bem	-	0.98333	0.00025	-	-	-	0.98333	0.00024	0.98333	0.00024	-	-	-	-	-
ben	ben	bn	1.0	0.0	1.0	0.0	-	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	-
bfa	bfa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bho	bho	-	0.78519	0.00037	-	-	-	0.78519	0.00037	0.77273	0.00024	-	-	-	-	-
bin	bin	-	0.9927	0.00012	-	-	-	1.0	0.0	1.0	0.0	-	-	-	-	-
bis	bis	-	1.0	0.0	-	-	-	1.0	0.0	1.0	0.0	-	-	-	-	-
blt	blt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
boa	boa	-	0.99213	0.00012	-	-	-	0.99213	0.00012	1.0	0.0	-	-	-	-	-
bod	bod	-	0.89091	0.00012	-	-	-	0.89091	0.00012	0.89091	0.00012	-	-	-	-	-
bos	bos	bs	0.18103	0.01134	0.23913	0.00561	-	0.18605	0.00914	0.14607	0.00531	0.27386	0.00401	0.0	5e-05	-
bre	bre	-	0.98361	0.0	-	-	-	0.98361	0.0	0.98361	0.0	-	-	-	-	-
buc	buc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bug	bug	-	0.95312	0.00062	-	-	-	0.96063	0.00049	0.976	0.00024	-	-	-	-	-
bul	bul	bg/bg-Latn	0.96	0.00062	0.52212	0.00488	-	0.96	0.00061	0.97561	0.00035	0.59	0.00369	<u>0.67052</u>	0.00249	-
bun	bun	-	0.54762	0.00025	-	-	-	0.53659	0.00012	0.46154	0.00012	-	-	-	-	-
cab	cab	-	1.0	0.0	-	-	-	1.0	0.0	1.0	0.0	-	-	-	-	-
cak	cak	-	1.0	0.0	-	-	-	1.0	0.0	1.0	0.0	-	-	-	-	-
cat	cat	ca	0.9375	0.001	0.24691	0.0167	-	0.95238	0.00073	0.96774	0.00047	0.27397	0.01449	<u>0.3352</u>	0.01077	-
cbi	cbi	-	0.9771	0.00025	-	-	-	0.99225	0.0	0.99225	0.0	-	-	-	-	-
cbr	cbr	-	0.7033	0.0	-	-	-	0.65909	0.0	0.54321	0.0	-	-	-	-	-
cbs	cbs	-	0.67308	0.00037	-	-	-	0.66	0.00012	0.61053	0.0	-	-	-	-	-
cbt	cbt	-	0.97479	0.00012	-	-	-	0.97479	0.00012	0.98305	0.0	-	-	-	-	-
cbu	cbu	-	0.18462	0.0	-	-	-	0.09677	0.0	0.03333	0.0	-	-	-	-	-
ccp	ccp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ceb	ceb	ceb	0.96721	0.0005	0.43182	0.00675	-	0.9916	0.00012	1.0	0.0	0.456	0.00611	<u>0.48718</u>	0.00534	-
ces	ces	cs	0.98387	0.0	0.6776	0.00265	-	0.98387	0.0	0.98387	0.0	0.74699	0.00187	<u>0.79487</u>	0.0014	-
cfm	cfm	-	0.85714	0.0	-	-	-	0.85714	0.0	0.84615	0.0	-	-	-	-	-
cha	cha	-	0.8381	0.00012	-	-	-	0.82353	0.0	0.8	0.0	-	-	-	-	-
chj	chj	-	0.12727	0.00536	-	-	-	0.14286	0.00378	0.15385	0.00141	-	-	-	-	-
chk	chk	-	0.97521	0.00012	-	-	-	0.98333	0.0	0.97479	0.0	-	-	-	-	-
chr	chr	-	0.03333	0.0	-	-	-	-	-	-	-	-	-	-	-	-
chv	chv	-	0.86154	0.0	-	-	-	0.86154	0.0	0.86154	0.0	-	-	-	-	-
cic	cic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cjk	cjk	-	0.92641	0.00037	-	-	-	0.92641	0.00037	0.92035	0.00012	-	-	-	-	-
cjs	cjs	-	0.65217	0.0	-	-	-	0.65217	0.0	0.63736	0.0	-	-	-	-	-
ckb	ckb	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cnh	cnh	-	0.93023	0.00112	-	-	-	0.9375	0.00098	0.94488	0.00083	-	-	-	-	-
cni	cni	-	0.90226	0.00162	-	-	-	0.90909	0.00146	0.91603	0.0013	-	-	-	-	-
cnr	cnr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cof	cof	-	0.74747	0.0	-	-	-	0.63736	0.0	0.54118	0.0	-	-	-	-	-
cos	cos	co	0.95082	0.0005	0.30227	0.01264	-	0.98305	0.0	0.98305	0.0	0.33241	0.01098	<u>0.41812</u>	0.00756	-
cot	cot	-	0.96774	0.00025	-	-	-	0.96774	0.00024	0.97561	0.00012	-	-	-	-	-
cpu	cpu	-	0.89908	0.0	-	-	-	0.89908	0.0	0.89908	0.0	-	-	-	-	-
crh	crh	-	0.98361	0.00025	-	-	-	0.98361	0.00024	0.98361	0.00024	-	-	-	-	-
cri	cri	-	0.84404	0.00037	-	-	-	0.85185	0.00024	0.80769	0.00024	-	-	-	-	-
crs	crs	-	1.0	0.0	-	-	-	1.0	0.0	1.0	0.0	-	-	-	-	-
csa	csa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
csw	csw	-	0.0	0.00199	-	-	-	0.0	0.00049	-	-	-	-	-	-	-
ctd	ctd	-	0.78431	0.0	-	-	-	0.78431	0.0	0.74747	0.0	-	-	-	-	-
cym	cym	cy	1.0	0.0	0.46792	0.00643	-	1.0	0.0	1.0	0.0	0.55111	0.0046	<u>0.63918</u>	0.00317	-
dag	dag	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
dan	dan	da	0.85714	0.00262	0.91473	0.00032	-	0.91304	0.00146	0.98437	0.00024	0.93651	0.00018	<u>0.95161</u>	9e-05	-
ddn	ddn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
deu	deu	de	0.98745	0.00012	0.92549	0.00078	-	0.98745	0.00012	0.98745	0.00012	0.944	0.00055	<u>0.95547</u>	0.00041	-
dga	dga	-	0.71166	0.00548	-	-	-	0.73885	0.00463	0.8	0.00307	-	-	-	-	-
dip	dip	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
div	div	-	0.96774	0.0	-	-	-	0.96774	0.0	0.93333	0.0	-	-	-	-	-
duu	duu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
dyo	dyo	-	0.97391	0.0	-	-	-	0.97391	0.0	0.96491	0.0	-	-	-	-	-
dyu	dyu	-	0.23188	0.00785	-	-	-	0.22059	0.00756	0.17323	0.00672	-	-	-	-	-
dzo	dzo	-	0.90769	0.00137	-	-	-	0.90769	0.00134	0.90769	0.0013	-	-	-	-	-
ell	ell	el/el-Latn	0.97908	0.0	0.81879	0.00246	-	0.97908	0.0	0.97908	0.0	0.91045	0.00109	<u>0.95686</u>	0.00	

		with confidence threshold θ													
iso639-3	UDHR Code(s)	CLD3 Code(s)	GlottLID-M		CLD3		GlottLID-M $\theta=.3$		GlottLID-M $\theta=.5$		CLD3 $\theta=.5$		CLD3 $\theta=.7$		
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	
eve	eve	-	0.27586	0.00361			0.27451	0.00207	0.22222	0.00012					
evn	evn	-	0.21154	0.00424			0.2029	0.00037	0.03333	0.0					
ewe	ewe	-	0.98361	0.00025			0.98361	0.00024	0.98361	0.00024					
fao	fao	-	0.98305	0.0			0.98305	0.0	0.98305	0.0					
fas	pes/prs	fa	0.90152	0.00311	0.86331	0.00173	<u>0.90494</u>	0.00293	0.90494	0.00283	0.89888	0.00123	0.94118	0.00068	
fat	fat	-	0.97521	0.00025			0.97521	0.00024	0.97521	0.00024					
fij	fij	-	1.0	0.0			1.0	0.0	1.0	0.0					
fil	-	fil				0.01186					0.01039			0.00851	
fin	fin	fi	0.38066	0.02554	0.27391	0.01524	0.39252	0.02377	0.41311	0.0211	0.3	0.0134	<u>0.33871</u>	0.01113	
fkv	fkv	-	0.28571	0.0			0.28571	0.0	0.23529	0.0					
fon	fon	-	0.94118	0.0005			0.94915	0.00037	0.95726	0.00024					
fra	fra	fr	0.95238	0.00075	0.37855	0.00899	0.95935	0.00049	0.96661	0.00012	0.41379	0.00775	<u>0.48583</u>	0.00575	
fry	fry	fy	0.99174	0.00012	0.67039	0.00269	1.0	0.0	1.0	0.0	0.74074	0.00191	<u>0.83333</u>	0.00109	
fuf	fuf	-	0.04762	0.0005			0.01613	0.00049	0.0	0.00035					
fur	fur	-	0.91473	0.00125			0.95935	0.00049	0.96721	0.00035					
fuv	fuv	-	0.77912	0.00237			0.80833	0.00122	0.81197	0.00071					
fvr	fvr	-													
gaa	gaa	-	0.93846	0.001			0.96825	0.00049	0.98387	0.00024					
gag	gag	-	0.93103	0.0			0.93103	0.0	0.93103	0.0					
gaz	gaz	-	0.83221	0.00311			0.88235	0.00171	0.83761	0.00071					
gjn	gjn	-	0.90476	0.001			0.93443	0.00049	0.95798	0.00012					
gkp	gkp	-	0.92063	0.00125			0.93548	0.00098	0.96667	0.00047					
gla	gla	gd	0.94574	0.00025	0.50769	0.00584	0.95312	0.00012	0.96063	0.0	0.6055	0.00392	<u>0.71351</u>	0.0024	
gld	gld	-													
gle	gle	ga	0.95	0.001	0.55882	0.00324	0.96815	0.00061	0.96815	0.00059	0.63333	0.00214	<u>0.74026</u>	0.00095	
glg	glg	gl	0.98305	0.00012	0.57711	0.00383	0.98305	0.00012	0.98305	0.00012	0.64804	0.00283	<u>0.73885</u>	0.00181	
glv	glv	-	1.0	0.0			1.0	0.0	1.0	0.0					
gsw	gsw	-	0.98333	0.00012			0.9916	0.0	0.9916	0.0					
guc	guc	-	0.96063	0.00062			0.96825	0.00049	0.98387	0.00024					
gug	gug	-	0.80992	0.0			0.7027	0.0	0.62857	0.0					
guj	guj	gu	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	
guk	guk	-													
guu	guu	-													
gyr	gyr	-	0.62745	0.0			0.57143	0.0	0.44444	0.0					
hat	hat	ht	0.90706	0.00311	0.37931	0.01802	0.9313	0.00219	0.95312	0.00141	0.41724	0.01536	<u>0.48303</u>	0.01168	
hau	hau	ha	0.94488	0.00262	0.32727	0.03376	0.96	0.00183	0.97297	0.00118	0.39173	0.02548	<u>0.49587</u>	0.01656	
haw	haw	haw	1.0	0.0	0.17101	0.0261	1.0	0.0	1.0	0.0	0.20205	0.02124	<u>0.26818</u>	0.01457	
heb	heb	iw	1.0	0.0	0.98305	9e-05	1.0	0.0	1.0	0.0	0.99145	5e-05	1.0	0.0	
hil	hil	-	1.0	0.0			1.0	0.0	1.0	0.0					
hin	hin	hi/hi-Latn	0.62	0.00947	0.17175	0.02728	0.62312	0.00914	0.62944	0.00861	0.19528	0.02329	<u>0.23664</u>	0.0181	
hlt	hlt	-	0.92982	0.0			0.92982	0.0	0.89091	0.0					
hmn	hms/hnj/hea	hmn	<u>0.02198</u>	0.0	0.41538	0.00119	0.02198	0.0			0.329	0.00059	0.21596	0.00045	
hna	hna	-													
hni	hni	-													
hns	hns	-	0.89655	0.00025			0.91228	0.0	0.91228	0.0					
hrv	hrv	hr	0.60302	0.00984	0.44324	0.00383	0.62176	0.0089	0.69364	0.00625	<u>0.45055</u>	0.00369			
hsb	hsb	-	1.0	0.0			1.0	0.0	1.0	0.0					
hun	hun	hu	0.82192	0.00324	0.21779	0.01966	0.84507	0.00268	0.89552	0.00165	0.2649	0.01518	<u>0.33803</u>	0.01063	
hus	hus	-	0.98082	0.00037			0.98615	0.0	0.97479	0.0					
huu	huu	-	0.98305	0.0			0.96552	0.0	0.96552	0.0					
hye	hye	hy	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	
ibb	ibb	-													
ibo	ibo	ig	0.98718	0.00025	0.29903	0.01647	0.99355	0.00012	1.0	0.0	0.35484	0.01276	<u>0.46526</u>	0.00801	
ido	ido	-	0.95	0.00012			0.94915	0.0	0.94915	0.0					
idu	idu	-	0.0	0.00012			0.0	0.00012							
iii	iii	-													
ijs	ijs	-													
ike	ike	-	0.97872	0.00025			0.97872	0.00024	0.97872	0.00024					
ilo	ilo	-	0.91339	0.00137			0.928	0.0011	0.97479	0.00035					
ina	ina	-	0.84892	0.00249			0.90769	0.00134	0.944	0.00071					
isl	isl	is	0.9916	0.00012	0.53953	0.00447	0.9916	0.00012	0.9916	0.00012	0.59184	0.0036	<u>0.60733</u>	0.00335	
ita	ita	it	0.78947	0.00386	0.30227	0.01259	0.83916	0.00268	0.86957	0.002	0.32698	0.01121	<u>0.39216</u>	0.00837	
jav	jav	jav	0.97581	0.0005	0.22139	0.01601	0.97581	0.00049	0.97561	0.00035	0.26517	0.01199	<u>0.31892</u>	0.00851	
jiv	jiv	-	0.48583	0.01557			0.50847	0.0139	0.53881	0.01155					
jpn	jpn	ja/ja-Latn	0.7861	0.00984	0.36616	0.02277	0.79245	0.00926	0.79245	0.00896	0.44207	0.01654	<u>0.50699</u>	0.01263	
kaa	kaa	-	0.96667	0.00025			0.96667	0.00024	0.97479	0.00012					
kal	kal	-	0.98305	0.0			0.98305	0.0	0.98305	0.0					
kan	kan	kn	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	
kat	kat	ka	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	
kaz	kaz	kk	0.96721	0.00037	0.39604	0.00835	0.97521	0.00024	0.96667	0.00024	0.41522	0.0077	<u>0.46154</u>	0.00634	
kbd	kbd	-	0.87692	0.00199			0.87692	0.00195	0.87692	0.00189					
kbp	kbp	-	0.85714	0.00249			0.90909	0.00146	0.9375	0.00094					
kbr	kbr	-	0.99174	0.00012			1.0	0.0	1.0	0.0					
kde	kde	-	0.58491	0.0			0.58491	0.0	0.54369	0.0					
kdh	kdh	-	0.77551	0.0			0.76289	0.0	0.73684	0.0					
kea	kea	-	0.72727	0.00125			0.72727	0.00122	0.69811	0.00106					
kek	kek	-	0.97521	0.00037			0.9916	0.00012	0.9916	0.00012					
kha	kha	-	0.97521	0.00025			0.98333	0.00012	0.97479	0.00012					
khm	khm	km	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	
kin	kin	-	0.76336	0.00262			0.81967	0.00146	0.8547	0.00083					
kir	kir	ky	0.95238	0.00075	0.22599	0.01875	0.95238	0.00073	0.96774	0.00047	0.23211	0.01809	<u>0.26374</u>	0.01516	
kjh	kjh	-	0.83099	0.00287			0.83099	0.0028	0.84892	0.00236					
kkh	kkh	-													
kmb	kmb	-	0.99194	0.00012			0.99194	0.00012	0.99194	0.00012					
kmr	kmr	ku (Latn)	0.66667	0.00735	0.15506	0.02934	0.66667	0.00719	0.66667	0.00696	0.19125	0.02274	<u>0.25764</u>	0.01539	
knc	knc	-	0.97059	0.00037			0.97778	0.00024	0.97778	0.00024					
kng	kng	-	0.0	0.00037			0.0	0.00012	0.0	0.00012					
koi	koi	-	0.96667	0.00037			0.95652	0.00012	0.94737	0.00012					
koo	koo	-	0.79389	0.00012			0.79389	0.00012	0.79389	0.00012					
kor	kor	ko	0.95238	0.00075	1.0	0.0	0.96774	0.00049	0.99174	0.00012	1.0	0.0	1.0	0.0	
kqn	kqn	-	1.0	0.0			1.0	0.0	1.0	0.0					
kqs	kqs	-	0.20896	0.0			0.09524	0.0	0.03279	0.0					
kri	kri	-	0.96875	0.0			0.96875	0.0	0.96063	0.0					
krj	krj	-	0.02581	0.0			0.02581	0.0							
ktu	ktu	-	0.78912	0.00723			0.57944	0.0039	0.54369	0.00354					
kwi	kwi	-	0.837	0.0			0.78899	0.0	0.70588	0.0					
lad	lad	-	0.92174	0.00025			0.92174	0.00024	0.92982	0.00012					

iso639-3	UDHR Code(s)	CLD3 Code(s)	with confidence threshold θ											
			GlottLID-M		CLD3		GlottLID-M $\theta=.3$		GlottLID-M $\theta=.5$		CLD3 $\theta=.5$		CLD3 $\theta=.7$	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
lat	lat	la	<u>0.975</u>	0.00012	0.68222	0.00474	0.975	0.00012	0.97071	0.00012	0.70732	0.0041	<u>0.76159</u>	0.00294
lav	lvs	lv	0.93385	0.00212	0.84507	0.00201	0.95618	0.00134	<u>0.96386</u>	0.00106	0.89888	0.00123	<u>0.94118</u>	0.00068
lia	lia	-	<u>0.94643</u>	0.0	-	-	0.94643	0.0	0.92727	0.0	-	-	-	-
lij	lij	-	0.49785	0.01445	-	-	0.53953	0.01195	<u>0.64804</u>	0.00731	-	-	-	-
lin	lin	-	0.99145	0.00025	-	-	<u>1.0</u>	0.0	<u>1.0</u>	0.0	-	-	-	-
lit	lit	lt	0.9375	0.001	0.43382	0.00698	0.96774	0.00049	<u>0.98361</u>	0.00024	0.53153	0.00469	<u>0.63784</u>	0.00299
lld	lld	-	0.53465	0.00174	-	-	<u>0.5567</u>	0.00122	0.51685	0.00071	-	-	-	-
lns	lns	-	-	-	-	-	-	-	-	-	-	-	-	-
lob	lob	-	0.92857	0.00025	-	-	<u>0.93694</u>	0.00012	0.93578	0.0	-	-	-	-
lot	lot	-	-	-	-	-	-	-	-	-	-	-	-	-
loz	loz	-	<u>0.84892</u>	0.0	-	-	0.84892	0.0	0.84892	0.0	-	-	-	-
lhz	lhz	lb	<u>0.98305</u>	0.0	0.54054	0.00465	0.98305	0.0	0.98305	0.0	0.57282	0.00396	<u>0.63441</u>	0.00303
lua	lua	-	0.72414	0.00174	-	-	0.75	0.00122	<u>0.78846</u>	0.00035	-	-	-	-
lue	lue	-	<u>0.99145</u>	0.0	-	-	0.99145	0.0	0.99145	0.0	-	-	-	-
lug	lug	-	0.9589	0.00075	-	-	0.97222	0.00049	<u>0.98592</u>	0.00024	-	-	-	-
lun	lun	-	0.81752	0.00037	-	-	0.8209	0.00012	<u>0.82707</u>	0.0	-	-	-	-
lus	lus	-	0.94309	0.00087	-	-	0.95868	0.00061	<u>0.97479</u>	0.00035	-	-	-	-
mad	mad	-	<u>0.92174</u>	0.0	-	-	0.92174	0.0	0.89286	0.0	-	-	-	-
mag	mag	-	0.75385	0.0005	-	-	<u>0.76562</u>	0.00024	0.76562	0.00024	-	-	-	-
mah	mah	-	0.96063	0.00062	-	-	<u>1.0</u>	0.0	1.0	0.0	-	-	-	-
mai	mai	-	<u>0.83099</u>	0.0	-	-	0.83099	0.0	0.83099	0.0	-	-	-	-
mal	mal	ml	<u>1.0</u>	0.0	<u>1.0</u>	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
mam	mam	-	0.93913	0.00025	-	-	<u>0.95575</u>	0.0	0.94643	0.0	-	-	-	-
mar	mar	mr	<u>0.99174</u>	0.00012	0.28362	0.01328	0.99174	0.00012	0.99174	0.00012	0.30287	0.01208	<u>0.35258</u>	0.00955
maz	maz	-	0.83582	0.00212	-	-	0.85496	0.00171	<u>0.896</u>	0.00094	-	-	-	-
mcd	mcd	-	0.97521	0.00025	-	-	<u>0.9916</u>	0.0	0.98305	0.0	-	-	-	-
mcf	mcf	-	<u>1.0</u>	0.0	-	-	1.0	0.0	1.0	0.0	-	-	-	-
men	men	-	0.9771	0.00037	-	-	0.9771	0.00037	<u>0.99225</u>	0.00012	-	-	-	-
mfq	mfq	-	0.88722	0.00187	-	-	0.95935	0.00061	<u>0.9916</u>	0.00012	-	-	-	-
mic	mic	-	<u>0.15625</u>	0.0	-	-	0.03333	0.0	0.0	0.0	-	-	-	-
miq	miq	-	<u>0.832</u>	0.0	-	-	0.832	0.0	0.832	0.0	-	-	-	-
mkd	mkd	mk	<u>0.99174</u>	0.0	0.95238	0.00023	0.99174	0.0	0.99174	0.0	0.96	0.00018	<u>0.98361</u>	5e-05
mlg	mlg	plt	0.93913	0.00062	0.70886	0.0021	0.96429	0.00024	<u>0.97297</u>	0.00012	0.77778	0.00146	<u>0.86822</u>	0.00077
mlt	mlt	mt	0.77419	0.00436	0.15267	0.03038	0.78947	0.0039	<u>0.82759</u>	0.00295	0.17857	0.02516	<u>0.22599</u>	0.0186
mnw	mnw	-	-	-	-	-	-	-	-	-	-	-	-	-
mon	mon	mn	0.88276	0.00199	0.27928	0.01446	0.9771	0.00024	<u>0.98462</u>	0.00012	0.29314	0.01349	<u>0.33983</u>	0.01054
mor	mor	-	<u>0.9916</u>	0.0	-	-	0.9916	0.0	0.9916	0.0	-	-	-	-
mos	mos	-	0.97015	0.0005	-	-	0.98485	0.00024	<u>0.99237</u>	0.00012	-	-	-	-
mri	mri	mi	0.8227	0.00025	0.2	0.02053	<u>0.82857</u>	0.00012	0.82857	0.00012	0.23695	0.01632	<u>0.28502</u>	0.0124
msa	msa	zlm/min/ind	0.86842	0.0076	0.44054	0.01537	0.89535	0.00549	<u>0.91124</u>	0.00424	<u>0.5088</u>	0.0103	0.45511	0.00588
mta	mta	-	<u>0.0</u>	0.001	-	-	0.0	0.00037	0.0	0.00012	-	-	-	-
mxi	mxi	-	-	-	-	-	-	-	-	-	-	-	-	-
mxv	mxv	-	<u>0.14925</u>	0.0	-	-	0.12121	0.0	0.0625	0.0	-	-	-	-
mya	mya	my	0.66667	0.00723	<u>0.5042</u>	0.00538	0.66667	0.00707	<u>0.67045</u>	0.00672	0.5042	0.00538	0.5042	0.00534
mzi	mzi	-	-	-	-	-	-	-	-	-	-	-	-	-
nav	nav	-	0.9916	0.00012	-	-	<u>1.0</u>	0.0	1.0	0.0	-	-	-	-
nba	nba	-	-	-	-	-	-	-	-	-	-	-	-	-
ndo	ndo	-	0.8806	0.00199	-	-	0.90076	0.00158	<u>0.95161</u>	0.00071	-	-	-	-
nds	nds	-	<u>1.0</u>	0.0	-	-	1.0	0.0	1.0	0.0	-	-	-	-
nep	nep	ne	<u>0.99115</u>	0.0	0.24675	0.01588	0.99115	0.0	0.99115	0.0	0.26207	0.01463	<u>0.29867</u>	0.01186
nhn	nhn	-	-	-	-	-	-	-	-	-	-	-	-	-
nio	nio	-	-	-	-	-	-	-	-	-	-	-	-	-
niu	niu	-	<u>1.0</u>	0.0	-	-	1.0	0.0	1.0	0.0	-	-	-	-
niv	niv	-	-	-	-	-	-	-	-	-	-	-	-	-
njo	njo	-	<u>0.95312</u>	0.0	-	-	0.95312	0.0	0.95312	0.0	-	-	-	-
nku	nku	-	-	-	-	-	-	-	-	-	-	-	-	-
nld	nld	nl	0.70659	0.00611	0.80272	0.00132	0.71084	0.00585	<u>0.71515</u>	0.00554	0.80822	0.00128	<u>0.84286</u>	0.001
nor	nor	nob/mno	0.97619	0.00062	0.87455	0.00151	0.984	0.00037	<u>0.99194</u>	0.00012	0.88727	0.00132	<u>0.88971</u>	0.00122
not	not	-	<u>0.97391</u>	0.0	-	-	0.97391	0.0	0.97391	0.0	-	-	-	-
nso	nso	-	0.86957	0.00224	-	-	0.87591	0.00207	<u>0.88235</u>	0.00189	-	-	-	-
nya	nya	ny	0.96414	0.00112	0.21838	0.03914	0.97581	0.00073	<u>0.99588</u>	0.00012	0.24948	0.03286	<u>0.31957</u>	0.02308
nym	nym	-	-	-	-	-	-	-	-	-	-	-	-	-
nyn	nyn	-	<u>0.85938</u>	0.0	-	-	0.85938	0.0	0.85938	0.0	-	-	-	-
nzi	nzi	-	<u>1.0</u>	0.0	-	-	1.0	0.0	1.0	0.0	-	-	-	-
oaa	oaa	-	-	-	-	-	-	-	-	-	-	-	-	-
oci	oci	-	<u>0.41101</u>	0.0	-	-	0.40516	0.0	0.38131	0.0	-	-	-	-
obj	obj	-	<u>0.7027</u>	0.0	-	-	0.7027	0.0	0.66667	0.0	-	-	-	-
oki	oki	-	-	-	-	-	-	-	-	-	-	-	-	-
orh	orh	-	-	-	-	-	-	-	-	-	-	-	-	-
oss	oss	-	0.50273	0.0076	-	-	0.50549	0.00731	<u>0.50829</u>	0.00696	-	-	-	-
ote	ote	-	<u>0.0</u>	0.00411	-	-	0.0	0.00329	0.0	0.0013	-	-	-	-
pam	pam	-	<u>1.0</u>	0.0	-	-	1.0	0.0	1.0	0.0	-	-	-	-
pan	pan	pa	<u>1.0</u>	0.0	<u>1.0</u>	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
pap	pap	-	0.79195	0.00586	-	-	0.83099	0.00293	<u>0.86765</u>	0.00212	-	-	-	-
pau	pau	-	<u>0.97436</u>	0.0	-	-	0.97436	0.0	0.97436	0.0	-	-	-	-
pbb	pbb	-	0.71698	0.00536	-	-	0.76056	0.00354	<u>0.816</u>	0.00177	-	-	-	-
pcd	pcd	-	-	-	-	-	-	-	-	-	-	-	-	-
pcm	pcm	-	<u>0.71739</u>	0.0	-	-	0.71739	0.0	0.71739	0.0	-	-	-	-
pis	pis	-	<u>0.9916</u>	0.0	-	-	0.9916	0.0	0.9916	0.0	-	-	-	-
piu	piu	-	-	-	-	-	-	-	-	-	-	-	-	-
pnb	pnb	-	<u>0.65969</u>	0.0076	-	-	0.65969	0.00744	0.65969	0.00719	-	-	-	-
pol	pol	pl	0.74074	0.00523	0.40134	0.00817	0.76923	0.00439	<u>0.81633</u>	0.00318	0.47244	0.00611	<u>0.56872</u>	0.00412
pon	pon	-	<u>1.0</u>	0.0	-	-	1.0	0.0	1.0	0.0	-	-	-	-
por	por	pt	0.85106	0.00523	0.65217	0.00584	0.87273	0.00427	<u>0.89219</u>	0.00342	0.70381	0.0046	<u>0.7619</u>	0.00339
pov	pov	-	<u>0.96552</u>	0.0	-	-	0.96552	0.0	0.95652	0.0	-	-	-	-
ppl	ppl	-	<u>0.42105</u>	0.0	-	-	0.20896	0.0	0.125	0.0	-	-	-	-
pus	pus	ps	0.75	0.0	0.90769	0.0005	0.75	0.0	0.75	0.0	0.92187	0.00041	<u>0.95935</u>	0.00018
que	que	que/qxn/qvh/qub/qvc/qxu/quz/qvn/qug/qwh/qvm/quy/quc/qva	0.919	0.01146	-	-	0.93737	0.0067	<u>0.9491</u>	0.00365	-	-	-	-
rar	rar	-	<u>0.99174</u>	0.00012	-	-	0.99174	0.00012	0.99174	0.00012	-	-	-	-
rgn	rgn	-	-	-	-	-	-	-	-	-	-	-	-	-
rnn	rnn	-	<u>0.86636</u>	0.00012	-	-	0.86111	0.00012	0.85047	0.00012	-	-	-	-
roh	roh	-	<u>0.99268</u>	0.0	-	-	0.99145	0.0	0.98775	0.0	-	-	-	-
ron	ron	ro	0.81328	0.00548	0.66443	0.00456	0.80833	0.00536	<u>0.82906</u>	0.00448	0.73606	0.00324	<u>0.79839</u>	0.00226
run	run	-	0.87591	0.00212	-	-	0.88889	0.00183	<u>0.90909</u>	0.00141	-	-	-	-
rup	rup	-	<u>0.125</u>	0.0	-	-	0.125	0.0	0.09524	0.0	-	-	-	-
rus	rus	ru/ru-Latin	0.43478	0.01944	0.32345	0.01145	0.47431	0.01621	<u>0.51064</u>	0.01356	0.35191	0.01007	<u>0.4</u>	0.00815
sag	sag	-	<u>0.81553</u>	0.0	-	-	0.80392	0.0	0.79208	0.0	-	-	-	-
sah														

														with confidence threshold θ											
														GlotLID-M		CLD3		GlotLID-M $\theta=3$		GlotLID-M $\theta=5$		CLD3 $\theta=5$		CLD3 $\theta=7$	
iso639-3	UDHR Code(s)	CLD3 Code(s)	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow											
san	san	-	0.66667	0.0			0.66667	0.0	0.66667	0.0															
sco	sco	-	0.92683	0.0005			0.95	0.00012	0.94118	0.00012															
sey	sey	-	0.02985	0.0005			0.0	0.00037																	
shk	shk	-	0.88889	0.0			0.88889	0.0	0.86792	0.0															
shn	shn	-	0.99145	0.0			0.99145	0.0	0.99145	0.0															
shp	shp	-	0.27397	0.0			0.25	0.0	0.14706	0.0															
sid	sid	-	0.90625	0.0015			0.90625	0.00146	0.94309	0.00083															
sin	sin	si	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0											
skr	skr	-																							
skl	skl	sk	0.88889	0.00187	0.6	0.00365	0.9375	0.00098	0.94488	0.00083	0.67416	0.00264	0.78146	0.00145											
slr	slr	-																							
slv	slv	sl	0.90909	0.0015	0.67045	0.0026	0.95238	0.00073	0.97561	0.00035	0.71084	0.00214	0.78667	0.0014											
sme	sme	-	0.96667	0.00025			0.96667	0.00024	0.96667	0.00024															
smo	smo	sm	1.0	0.0	0.6087	0.0037	1.0	0.0	1.0	0.0	0.65969	0.00296	0.7875	0.00154											
sna	sna	sn	0.93846	0.001	0.23282	0.01834	0.96063	0.00061	0.98387	0.00024	0.30576	0.01262	0.40132	0.00824											
snd	-	sd				0.00233					0.00223			0.00158											
snk	snk	-																							
snn	snn	-	0.60773	0.0			0.57627	0.0	0.425	0.0															
som	som	so	0.75817	0.00461	0.12141	0.03759	0.80556	0.00341	0.89231	0.00165	0.13919	0.03208	0.1699	0.02516											
sot	sot	st	0.98333	0.00012	0.35398	0.00999	0.9916	0.0	0.9916	0.0	0.4	0.0082	0.4461	0.00674											
spa	spa	es	0.72321	0.00748	0.38835	0.01136	0.75701	0.0061	0.78	0.0046	0.40506	0.01057	0.43011	0.00946											
sqi	als	sq	0.85714	0.00249	0.29703	0.01296	0.86131	0.00219	0.89394	0.00153	0.36036	0.00971	0.41667	0.0076											
src	src	-																							
srp	srp	sr	0.5124	0.00748	0.45455	0.00383	0.4958	0.00719	0.48945	0.00696	0.45455	0.00383	0.45802	0.00371											
srr	srr	-	0.89231	0.0015			0.93443	0.00061	0.9661	0.00012															
ssw	ssw	-	0.94891	0.00075			0.97015	0.00037	0.99237	0.0															
suk	suk	-	0.68712	0.00586			0.69136	0.00561	0.71895	0.00448															
sun	sun	su	0.9697	0.00037	0.3416	0.01077	0.9771	0.00024	0.9771	0.00024	0.3949	0.00852	0.48062	0.00593											
sus	sus	-	0.92683	0.001			0.94215	0.00073	0.95798	0.00047															
swa	swa	sw	0.85315	0.00262	0.09772	0.0505	0.86525	0.00232	0.89051	0.00177	0.11101	0.04375	0.14118	0.03299											
swb	swb	-	0.80292	0.00287			0.84615	0.00195	0.86885	0.00118															
swe	swe	sv	0.86897	0.00237	0.89362	0.00068	0.93333	0.0011	1.0	0.0	0.92647	0.00046	0.95455	0.00027											
tah	tah	-	0.91892	0.00012			0.91892	0.00012	0.92727	0.0															
taj	taj	-	0.66667	0.0			0.66667	0.0																	
tam	tam	ta	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0											
tat	tat	-	0.68208	0.00673			0.68208	0.00658	0.69822	0.00589															
tbz	tbz	-	0.20896	0.0			0.18182	0.0	0.09524	0.0															
tca	tca	-	0.9916	0.0			0.9916	0.0	0.9916	0.0															
tdt	tdt	-	0.66292	0.00735			0.66292	0.00719	0.65537	0.00696															
tel	tel	te	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0											
tem	tem	-	0.97345	0.0			0.97345	0.0	0.94545	0.0															
tet	tet	-																							
tgk	tgk	tg	0.85507	0.00249	0.464	0.00607	0.92913	0.0011	0.95082	0.00059	0.48739	0.00551	0.52252	0.00475											
tgl	tgl	-	0.9403	0.00087			0.95455	0.00061	0.97674	0.00024															
tha	tha	th	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0											
tir	tir	-	1.0	0.0			1.0	0.0	1.0	0.0															
tiv	tiv	-	0.98551	0.00025			1.0	0.0	1.0	0.0															
tly	tly	-																							
tob	tob	-	0.97561	0.00037			0.98361	0.00024	0.99174	0.00012															
toi	toi	-	1.0	0.0			1.0	0.0	1.0	0.0															
toj	toj	-	0.83688	0.00025			0.83688	0.00024	0.84892	0.0															
ton	ton	-	1.0	0.0			1.0	0.0	1.0	0.0															
top	top	-	0.99174	0.00012			0.99174	0.00012	0.99174	0.00012															
tpi	tpi	-	0.98361	0.00012			0.98361	0.00012	0.98361	0.00012															
tsn	tsn	-	0.98361	0.00025			0.99174	0.00012	0.99174	0.00012															
tso	tso	-	0.94158	0.00174			0.94158	0.00171	0.95139	0.0013															
tsz	tsz	-	0.82517	0.00299			0.86765	0.00207	0.90625	0.00118															
tuk	tuk	-	0.96748	0.001			0.96748	0.00098	0.98347	0.00047															
tur	tur	tr	0.49383	0.01533	0.25641	0.01588	0.50209	0.01451	0.51502	0.01332	0.27907	0.01413	0.31088	0.01204											
twi	twi	-	0.95349	0.0015			0.96094	0.00122	0.9685	0.00094															
tyv	tyv	-	0.98361	0.00025			0.99174	0.00012	1.0	0.0															
tzh	tzh	-	0.98333	0.00025			0.98333	0.00024	0.9916	0.00012															
tzm	tzm	-	0.01754	0.00648			0.01754	0.00634	0.0177	0.00601															
tzo	tzo	-	0.97479	0.00012			0.98305	0.0	0.98305	0.0															
udu	udu	-	0.98361	0.00025			0.99174	0.00012	0.99174	0.00012															
uig	uig	-	0.91892	0.0			0.91403	0.0	0.89908	0.0															
ukr	ukr	uk	0.98361	0.00025	0.65169	0.00274	0.98361	0.00024	0.99174	0.00012	0.68639	0.00232	0.80556	0.00118											
umb	umb	-	0.87931	0.00125			0.87931	0.00122	0.87611	0.00083															
ura	ura	-	0.82963	0.0			0.82963	0.0	0.82963	0.0															
urd	urd	ur	0.96522	0.00087	0.62678	0.00589	0.96522	0.00085	0.96522	0.00083	0.63218	0.00574	0.63218	0.0057											
uzb	uzb	uz	0.70414	0.01233	0.1326	0.03308	0.78033	0.00805	0.86545	0.00424	0.15504	0.02707	0.19017	0.02041											
vai	vai	-																							
vec	vec	-	0.88889	0.00187			0.95238	0.00073	0.96774	0.00047															
ven	ven	-	1.0	0.0			1.0	0.0	1.0	0.0															
vep	vep	-																							
vie	vie	vi	0.66304	0.00012	0.07687	0.06405	0.66304	0.00012	0.66304	0.00012	0.08671	0.05578	0.10932	0.04222											
vmw	vmw	-	0.95798	0.00025			0.97436	0.0	0.97436	0.0															
war	war	-	0.9916	0.0			0.9916	0.0	0.9916	0.0															
wln	wln	-	0.62105	0.00885			0.62434	0.00853	0.64481	0.00755															
wol	wol	-	0.79747	0.00399			0.86897	0.00232	0.92537	0.00106															
wwa	wwa	-	0.88636	0.0			0.88636	0.0	0.87356	0.0															
xho	xho	xh	0.94574	0.00087	0.26339	0.01496	0.96825	0.00049	0.976	0.00035	0.29949	0.01249	0.39322	0.00796											
xsm	xsm	-																							
yad	yad	-	0.8785	0.0			0.85714	0.0	0.75	0.0															
yao	yao	-	0.97345	0.00025			0.98214	0.00012	0.98214	0.00012															
yap	yap	-	0.96721	0.00025			0.98333	0.0	0.98333	0.0															
yid	yid	yi	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0											
ykg	ykg	-																							
yor	yor	yo	0.85106	0.00262	0.0	0.01323	0.88889	0.00183	0.93023	0.00106	0.0	0.00852	0.0	0.00529											
yrk	yrk	-	0.8381	0.00012			0.83495	0.0	0.69565	0.0															
yua	yua	-	1.0	0.0			1.0	0.0	1.0	0.0															
zam	zam	-	0.0	0.00012																					
zdj	zdj	-	0.78125	0.00237			0.88496	0.00049	0.8972	0.0															
zgh	zgh	-	0.17647	0.0			0.17647	0.0	0.14925	0.0															
zho	cjy/hak/wuu/yue/cmn/gan/hsn/nan	zh/zh-Latin	0.71795	0.07015	0.81359	0.01802	0.73346	0.0629	0.75177	0.05459	0.85431	0.0134	0.88293	0.01											
zro	zro	-																							
zru	zru	-																							
zulu	zulu	zu	0.65591	0.00075	0.34138	0.01807	0.66304	0.00049	0.67033	0.00024	0.38267	0.01499	0.44492	0.01091											
zyb	zyb	-	0.92683	0.0005			0.95	0.00012	0.94915	0.0															

Table 41: Comparison of GlotLID vs CLD3 on UDHR benchmark (part 4)

			with confidence threshold θ											
iso639-3	UDHR Code(s)	FT176 Code(s)	GlottLID-M		FT176		GlottLID-M $\theta=.3$		GlottLID-M $\theta=.5$		FT176 $\theta=.3$		FT176 $\theta=.5$	
			F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
aar	aar	-												
abk	abk	-												
ace	ace	-	0.91603	0.00129			0.91603	0.00126	0.91603	0.00122				
acu	acu	-	0.58635	0.0			0.58635	0.0	0.58065	0.0				
ada	ada	-	0.91045	0.00154			0.9313	0.00114	0.93846	0.00098				
ady	ady	-	0.83495	0.0			0.83495	0.0	0.83495	0.0				
afr	afr	af	0.95238	0.00077	0.84553	0.00052	0.96774	0.00051	0.97561	0.00037	<u>0.92857</u>	0.0	0.90909	0.0
agr	agr	-	0.81429	0.00039			0.82014	0.00025	0.82014	0.00024				
aii	aii	-												
ajg	ajg	-	0.64516	0.0085			0.65217	0.00808	0.65574	0.0077				
alt	alt	-	0.95495	0.00039			0.96364	0.00025	0.96364	0.00024				
amc	amc	-												
ame	ame	-	1.0	0.0			1.0	0.0	1.0	0.0				
amh	amh	am	1.0	0.0	<u>0.35443</u>	0.00283	1.0	0.0	1.0	0.0	0.26667	0.00276	0.25503	0.00268
ami	ami	-	0.20896	0.0			0.125	0.0	0.09524	0.0				
amr	amr	-	1.0	0.0			0.99187	0.0	0.99187	0.0				
ara	arb	ar/arz	0.89552	0.0018	0.64171	0.00316	0.93023	0.00114	0.98361	0.00024	0.66298	0.0028	<u>0.66667</u>	0.00268
arg	-	an				5e-05						5e-05		4e-05
arl	arl	-	0.99187	0.0			0.99187	0.0	0.99187	0.0				
arn	arn	-	0.93913	0.00013			0.94737	0.0	0.94737	0.0				
ast	ast	ast	0.97521	0.00013	0.47059	0.00203	0.97521	0.00013	0.98333	0.0	<u>0.62626</u>	0.00032	0.57471	4e-05
auc	auc	-	0.01504	0.0										
ava	-	av				9e-05						5e-05		0
ayr	ayr	-	0.99174	0.00013			0.91071	0.00013	0.84615	0.0				
aze	azb/azj	az/azb	0.6413	0.00837	0.23529	0.01178	0.6413	0.00821	0.64658	0.00758	0.26914	0.00864	<u>0.29367</u>	0.00678
bak	-	ba		0.0009		0.00113		0.00088	0.00086		0.00096			0.00076
bam	bam	-	0.49682	0.00747			0.5098	0.00682	0.55319	0.00513				
ban	ban	-	0.98361	0.0			0.98361	0.0	0.97521	0.0				
bar	-	bar				5e-05						0		0
bax	bax	-												
bba	bba	-	0.92187	0.00116			0.92913	0.00101	0.93548	0.00073				
bci	bci	-	0.97521	0.00039			0.9916	0.00013	1.0	0.0				
bcl	bcl	bcl	1.0	0.0	<u>0.0</u>	0.0	1.0	0.0	0.9916	0.0	0.0	0.0	0.0	0.0
bel	bel	be	0.98333	0.0	0.62105	0.0033	0.98333	0.0	0.98333	0.0	0.66667	0.00262	<u>0.83688</u>	0.00094
bem	bem	-	0.98333	0.00026			0.98333	0.00025	0.98333	0.00024				
ben	ben	bn	1.0	0.0	0.97674	0.00014	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
bfa	bfa	-												
bho	bho	-	0.78519	0.00039			0.78519	0.00038	0.77273	0.00024				
bin	bin	-	0.9927	0.00013			1.0	0.0	1.0	0.0				
bis	bis	-	1.0	0.0			1.0	0.0	1.0	0.0				
blt	blt	-												
boa	boa	-	0.99213	0.00013			0.99213	0.00013	1.0	0.0				
bod	bod	bo	0.89091	0.00013	<u>0.66667</u>	0.00283	0.89091	0.00013	0.89091	0.00012	0.66667	0.00276	<u>0.66667</u>	0.00268
bre	bre	br	0.98361	0.0	0.60204	0.00354	0.98361	0.0	0.98361	0.0	0.86131	0.00074	<u>0.92683</u>	0.00018
buc	buc	-												
bug	bug	-	0.95312	0.00064			0.96063	0.00051	0.976	0.00024				
bul	bul	bg	0.96	0.00064	0.85294	0.00085	0.96	0.00063	0.97561	0.00037	0.89231	0.00055	<u>0.95868</u>	0.00013
bun	bun	-	0.54762	0.00026			0.53659	0.00013	0.46154	0.00012				
bxr	bxr	bxr				0.00024						9e-05		0
cab	cab	-	1.0	0.0			1.0	0.0	1.0	0.0				
cak	cak	-	1.0	0.0			1.0	0.0	1.0	0.0				
cat	cat	ca	0.9375	0.00103	0.43165	0.00745	0.95238	0.00076	0.96774	0.00049	0.64865	0.00299	<u>0.81379</u>	0.00116
cbi	cbi	-	0.9771	0.00026			0.99225	0.0	0.99225	0.0				
cbk	cbk	cbk		0.00039		0.0008		0.00038		0.00024		0.00032		0
cbr	cbr	-	0.7033	0.0			0.65909	0.0	0.54321	0.0				
cbs	cbs	-	0.67308	0.00039			0.66	0.00013	0.61053	0.0				
cbt	cbt	-	0.97479	0.00013			0.97479	0.00013	0.98305	0.0				
cbu	cbu	-	0.18462	0.0			0.09677	0.0	0.03333	0.0				
ccp	ccp	-												
ceb	ceb	ceb	0.96721	0.00051	0.58291	0.00387	0.9916	0.00013	1.0	0.0	0.62366	0.00317	<u>0.65909</u>	0.00263
ces	ces	cs	0.98387	0.0	0.4	0.00834	0.98387	0.0	0.98387	0.0	0.60606	0.00345	<u>0.76433</u>	0.00152
cfm	cfm	-	0.85714	0.0			0.85714	0.0	0.84615	0.0				
cha	cha	-	0.8381	0.00013			0.82353	0.0	0.8	0.0				
che	-	ce				0.00052							0	0
chj	chj	-	0.12727	0.00554			0.14286	0.00391	0.15385	0.00147				
chk	chk	-	0.97521	0.00013			0.98333	0.0	0.97479	0.0				
chr	chr	-	0.03333	0.0										
chv	chv	cv	0.86154	0.0	0.86154	0.0	0.86154	0.0	0.86154	0.0	0.86154	0.0	0.84375	0.0
cic	cic	-												
cjk	cjk	-	0.92641	0.00039			0.92641	0.00038	0.92035	0.00012				
cjs	cjs	-	0.65217	0.0			0.65217	0.0	0.63736	0.0				
ckb	ckb	ckb			0.0	0.0					0.0	0.0	0.0	0.0
cnh	cnh	-	0.93023	0.00116			0.9375	0.00101	0.94488	0.00086				
cni	cni	-	0.90226	0.00167			0.90909	0.00152	0.91603	0.00134				
cof	cof	-	0.74747	0.0			0.63736	0.0	0.54118	0.0				
cor	-	kw				0.00698						0.00032		0
cos	cos	co	0.98305	0.0	<u>0.03077</u>	0.00019	0.98305	0.0	0.98305	0.0	0.0	0.0	0.0	0.0
cot	cot	-	0.96774	0.00026			0.96774	0.00025	0.97561	0.00012				
cpu	cpu	-	0.89908	0.0			0.89908	0.0	0.89908	0.0				
crh	crh	-	0.98361	0.00026			0.98361	0.00025	0.98361	0.00024				
cri	cri	-	0.85185	0.00026			0.85185	0.00025	0.80769	0.00024				
crs	crs	-	1.0	0.0			1.0	0.0	1.0	0.0				
csa	csa	-												
csw	csw	-	0.0	0.00206			0.0	0.00051						
ctd	ctd	-	0.78431	0.0			0.78431	0.0	0.74747	0.0				
cym	cym	cy	1.0	0.0	0.22303	0.01999	1.0	0.0	1.0	0.0	0.65574	0.0028	<u>0.85938</u>	0.00049
dag	dag	-												
dan	dan	da	0.85135	0.00283	0.65922	0.00269	0.91304	0.00152	0.98437	0.00024	0.7973	0.00119	<u>0.86567</u>	0.00058
ddn	ddn	-												
deu	deu	de	0.98745	0.00013	0.35242	0.02079	0.98745	0.00013	0.98745	0.00012	0.73394	0.004	<u>0.86131</u>	0.00161
dga	dga	-	0.71166	0.00566			0.73885	0.0048	0.8	0.00318				
dip	dip	-												
diq	diq	diq		0.00129		0.00071		0.00038		0.00024		0		0
div	div	dv	0.96774	0.0	1.0	0.0	0.96774	0.0	0.93333	0.0	1.0	0.0	1.0	0.0
duu	duu	-												
dyo	dyo	-	0.97391	0.0			0.97391	0.0	0.96491	0.0				
dyu	dyu	-	0.23188	0.00811			0.22059	0.00783	0.17323	0.00697				
dzo	dzo	-	0.90769	0.00142			0.90769	0.00139	0.90769	0.00134				
ell	ell	el	0.97908	0.0	0.96063	0.00047	0.97908	0.0	0.97908	0.0	0.99592	5e-05	0.98755	0.0
emk	emk	-												
eml	eml	eml		0.0112		0.0016		0.01073		0.00758		0.0006		9e-05
eng	eng	en	0.85294	0.00232	0.0289	0.19006	0.87218	0.00189	0.8855	0.00159	0.14052	0.03373	<u>0.31915</u>	0.01141
epo	epo	eo	0.96825	0.00051	0.18155	0.02593	0.976	0.00038	0.976	0.00037	0.55455	0.0045	<u>0.75949</u>	0.00165
ese	ese	-	0.75	0.00013			0.75789	0.0	0.73118	0.0				

			with confidence threshold θ											
			GlottLID-M		FT176		GlottLID-M $\theta=.3$		GlottLID-M $\theta=.5$		FT176 $\theta=.3$		FT176 $\theta=.5$	
iso639-3	UDHR Code(s)	FT176 Code(s)	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓
est	ekk	et	0.60302	0.01017	0.28986	0.01386	0.63492	0.00871	<u>0.7362</u>	0.00526	0.553	0.00446	0.84507	0.00098
eus	eus	eu	0.9313	0.00116	0.58586	0.00372	0.96825	0.00051	0.98387	0.00024	0.95082	0.00014	<u>0.97479</u>	0.0
eve	eve	-	0.27586	0.00373	-	-	0.27451	0.00215	0.22222	0.00012	-	-	-	-
evn	evn	-	0.21154	0.00438	-	-	0.2029	0.00038	0.03333	0.0	-	-	-	-
ewe	ewe	-	0.98361	0.00026	-	-	0.98361	0.00025	0.98361	0.00024	-	-	-	-
fao	fao	-	0.98305	0.0	-	-	0.98305	0.0	0.98305	0.0	-	-	-	-
fat	prs/pes	fa	0.90152	0.00322	0.97959	0.00024	<u>0.90494</u>	0.00303	0.90494	0.00293	0.99174	9e-05	0.99174	9e-05
fat	fat	-	0.97521	0.00026	-	-	0.97521	0.00025	0.97521	0.00024	-	-	-	-
fij	fij	-	1.0	0.0	-	-	1.0	0.0	1.0	0.0	-	-	-	-
fin	fin	fi	0.38415	0.026	0.11397	0.04539	0.39252	0.02462	0.41311	0.02188	0.20228	0.02242	<u>0.28704</u>	0.01369
fkv	fkv	-	0.28571	0.0	-	-	0.28571	0.0	0.23529	0.0	-	-	-	-
fon	fon	-	0.94118	0.00051	-	-	0.94915	0.00038	0.95726	0.00024	-	-	-	-
fra	fra	fr	0.95238	0.00077	0.17831	0.02607	0.95935	0.00051	0.9661	0.00012	0.29412	0.01323	<u>0.40404</u>	0.00789
frr	frr	-	0.92063	0.00026	-	5e-05	0.92063	0.00025	0.96667	0.00049	-	0	-	0
fry	fry	fy	0.99174	0.00013	0.944	0.00028	1.0	0.0	1.0	0.0	<u>0.9916</u>	0.0	0.98305	0.0
fuf	fuf	-	0.04762	0.00051	-	-	0.01613	0.00051	0.0	0.00037	-	-	-	-
fur	fur	-	0.944	0.00077	-	-	0.95935	0.00051	0.96721	0.00037	-	-	-	-
fuv	fuv	-	0.77912	0.00245	-	-	0.80833	0.00126	0.81197	0.00073	-	-	-	-
fvr	fvr	-	-	-	-	-	-	-	-	-	-	-	-	-
gaa	gaa	-	0.93846	0.00103	-	-	0.96825	0.00051	0.98387	0.00024	-	-	-	-
gag	gag	-	0.93103	0.0	-	-	0.93103	0.0	0.93103	0.0	-	-	-	-
gaz	gaz	-	0.83221	0.00322	-	-	0.88235	0.00177	0.83761	0.00073	-	-	-	-
gjn	gjn	-	0.90476	0.00103	-	-	0.93443	0.00051	0.95798	0.00012	-	-	-	-
gkp	gkp	-	0.92063	0.00129	-	-	0.93548	0.00101	0.96667	0.00049	-	-	-	-
gla	gla	gd	0.94574	0.00026	0.57843	0.00372	0.95312	0.00013	0.96063	0.0	0.7451	0.00138	<u>0.80702</u>	9e-05
gld	gld	-	-	-	-	-	-	-	-	-	-	-	-	-
gle	gle	ga	0.95	0.00103	0.72258	0.00108	0.96815	0.00063	0.96815	0.00061	0.79433	0.00041	<u>0.80597</u>	0.00018
glg	glg	gl	0.98305	0.00013	0.78832	0.00113	0.98305	0.00013	0.98305	0.00012	0.90756	0.00028	<u>0.94643</u>	0.0
glv	glv	gv	1.0	0.0	<u>0.08571</u>	0.00038	1.0	0.0	1.0	0.0	0.0	5e-05	0.0	0.0
gom	gom	-	-	0.00051	-	0.00028	-	0.00025	-	0.00012	-	-	0	0
grn	grn	gn	0.59649	0.00618	<u>0.5</u>	0.00057	0.60714	0.00568	0.65359	0.00379	0.30233	5e-05	0.08	0.0
gsw	gsw	als	0.98333	0.00013	0.85217	0.00028	0.9916	0.0	0.9916	0.0	<u>0.8785</u>	0.0	0.5422	0.0
guc	guc	-	0.96063	0.00064	-	-	0.96825	0.00051	0.98387	0.00024	-	-	-	-
guj	guj	gu	1.0	0.0	0.99379	5e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
guk	guk	-	-	-	-	-	-	-	-	-	-	-	-	-
guu	guu	-	-	-	-	-	-	-	-	-	-	-	-	-
gyr	gyr	-	0.52632	0.0	-	-	0.52632	0.0	0.44444	0.0	-	-	-	-
hat	hat	ht	0.90706	0.00322	<u>0.45128</u>	0.00137	0.9313	0.00227	0.95312	0.00147	0.1831	0.00032	0.032	4e-05
hau	hau	-	0.94488	0.0027	-	-	0.96	0.00189	0.97297	0.00122	-	-	-	-
haw	haw	-	1.0	0.0	-	-	1.0	0.0	1.0	0.0	-	-	-	-
hbs	hrv/bos/srp/cnr	bs/hr/sr	0.95957	0.00335	0.68431	0.01466	0.97534	0.00177	0.98066	0.0011	<u>0.93048</u>	0.00184	0.73559	0.00058
hea	hea	-	-	-	-	-	-	-	-	-	-	-	-	-
heb	heb	he	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
hif	hif	-	-	0.0009	-	9e-05	-	0.00076	-	0.00073	-	0	-	0
hil	hil	-	1.0	0.0	-	-	1.0	0.0	1.0	0.0	-	-	-	-
hin	hin	hi	0.62	0.00978	0.33333	0.01169	0.62312	0.00947	0.62944	0.00892	0.33333	0.0114	<u>0.34066</u>	0.0107
hlt	hlt	-	0.92982	0.0	-	-	0.92982	0.0	0.89091	0.0	-	-	-	-
hms	hms	-	-	-	-	-	-	-	-	-	-	-	-	-
hna	hna	-	-	-	-	-	-	-	-	-	-	-	-	-
hni	hni	-	-	-	-	-	-	-	-	-	-	-	-	-
hnj	hnj	-	-	-	-	-	-	-	-	-	-	-	-	-
hns	hns	-	0.89655	0.00026	-	-	0.91228	0.0	0.91228	0.0	-	-	-	-
hsb	hsb	hsb	1.0	0.0	0.77064	0.00033	1.0	0.0	1.0	0.0	<u>0.82353</u>	0.0	0.68132	0.0
hun	hun	hu	0.82192	0.00335	0.30928	0.01263	0.84507	0.00278	0.89552	0.00171	0.57143	0.00414	<u>0.69767</u>	0.00232
hus	hus	-	0.98082	0.00039	-	-	0.98615	0.0	0.97479	0.0	-	-	-	-
huu	huu	-	0.98305	0.0	-	-	0.96552	0.0	0.96552	0.0	-	-	-	-
hye	hye	hy	1.0	0.0	0.99281	5e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
ibb	ibb	-	-	-	-	-	-	-	-	-	-	-	-	-
ibo	ibo	-	0.98718	0.00026	-	-	0.99355	0.00013	1.0	0.0	-	-	-	-
ido	ido	io	0.95	0.00013	0.21839	0.00438	0.94915	0.0	0.94915	0.0	<u>0.24324</u>	0.00014	0.09231	0.0
idu	idu	-	0.0	0.00013	-	-	0.0	0.00013	-	-	-	-	-	-
iii	iii	-	-	-	-	-	-	-	-	-	-	-	-	-
ijs	ijs	-	-	-	-	-	-	-	-	-	-	-	-	-
ike	ike	-	0.97872	0.00026	-	-	0.97872	0.00025	0.97872	0.00024	-	-	-	-
ile	ile	ie	-	-	-	0.00033	-	-	-	-	-	5e-05	-	0
ilo	ilo	ilo	0.91339	0.00142	0.77465	0.00137	0.928	0.00114	0.97479	0.00037	<u>0.97345</u>	0.0	0.94545	0.0
ina	ina	ia	0.86131	0.00232	<u>0.82569</u>	0.00019	0.90769	0.00139	0.944	0.00073	<u>0.77551</u>	0.0	0.28571	0.0
isl	isl	is	0.9916	0.00013	0.74839	0.00179	0.9916	0.00013	0.9916	0.00012	0.77852	0.00147	<u>0.78621</u>	0.00129
ita	ita	it	0.8	0.00373	0.15038	0.03191	0.83916	0.00278	0.86957	0.00208	0.30769	0.01236	<u>0.47967</u>	0.00562
jav	jav	ju	0.97581	0.00051	0.43243	0.0024	0.97581	0.00051	0.97561	0.00037	<u>0.48485</u>	9e-05	0.16418	0.0
jbo	jbo	-	-	0.00116	-	0.0017	-	0.00088	-	0.00061	-	0.00037	-	4e-05
jiv	jiv	-	0.48583	0.01609	-	-	0.50847	0.0144	0.53881	0.01198	-	-	-	-
jpn	jpn	ja	0.7861	0.01017	0.5	0.01381	0.79245	0.0096	0.79245	0.00929	0.68852	0.00607	0.80109	0.00321
kaa	kaa	-	0.96667	0.00026	-	-	0.96667	0.00025	0.97479	0.00012	-	-	-	-
kal	kal	-	0.98305	0.0	-	-	0.98305	0.0	0.98305	0.0	-	-	-	-
kan	kan	kn	1.0	0.0	0.67836	0.00259	1.0	0.0	1.0	0.0	0.99145	5e-05	1.0	0.0
kat	kat	ka	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
kaz	kaz	kk	0.96721	0.00039	0.39057	0.00844	0.97521	0.00025	0.96667	0.00024	0.40845	0.00763	<u>0.42491</u>	0.00691
kbd	kbd	-	0.87692	0.00206	-	-	0.87692	0.00202	0.87692	0.00196	-	-	-	-
kbp	kbp	-	0.85714	0.00257	-	-	0.90909	0.00152	0.9375	0.00098	-	-	-	-
kbr	kbr	-	0.99174	0.00013	-	-	1.0	0.0	1.0	0.0	-	-	-	-
kde	kde	-	0.58491	0.0	-	-	0.58491	0.0	0.54369	0.0	-	-	-	-
kdh	kdh	-	0.77551	0.0	-	-	0.76289	0.0	0.73684	0.0	-	-	-	-
kea	kea	-	0.72727	0.00129	-	-	0.72727	0.00126	0.69811	0.0011	-	-	-	-
kek	kek	-	0.97521	0.00039	-	-	0.9916	0.00013	0.9916	0.00012	-	-	-	-
kha	kha	-	0.97521	0.00026	-	-	0.98333	0.00013	0.97479	0.00012	-	-	-	-
khm	khm	km	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
kin	kin	-	0.76336	0.0027	-	-	0.81967	0.00152	0.8547	0.00086	-	-	-	-
kir	kir	ky	0.95238	0.00077	0.67797	0.00269	0.95238	0.00076	0.96774	0.00049	0.69767	0.00239	<u>0.81081</u>	0.00125
kjh	kjh	-	0.83099	0.00296	-	-	0.83099	0.0029	0.84892	0.00244	-	-	-	-
kkh	kkh	-	-	-	-	-	-	-	-	-	-	-	-	-
kmb	kmb	-	0.99194	0.00013	-	-	0.99194	0.00013	0.99194	0.00012	-	-	-	-
kmr	kmr	ku	0.66667	0.0076	0.53881	0.00476	0.66667	0.00745	0.					

		with confidence threshold θ															
		GlottLID-M		FT176		GlottLID-M $\theta=3$		GlottLID-M $\theta=5$		FT176 $\theta=3$		FT176 $\theta=5$					
iso639-3	UDHR Code(s)	FT176 Code(s)	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow			
kwi		kwi	0.837	0.0			0.78899	0.0	0.70588	0.0							
lad		lad	0.92174	0.00026			0.92174	0.00025	0.92982	0.00012							
lao		lao	1.0	0.0	0.84932	0.00104	1.0	0.0	1.0	0.0	0.98413	9e-05	1.0	0.0			
lat		lat	0.975	0.00013	0.6568	0.00495	0.975	0.00013	0.97071	0.00012	0.92174	9e-05	0.78	0.0			
lav		lvs	0.94118	0.00193	0.88148	0.00146	0.95618	0.00139	0.96386	0.0011	0.96356	0.00037	0.99167	4e-05			
lez		lez	-	-	-	-	0.00019	-	-	-	-	-	0.00014	4e-05			
lia		lia	0.94643	0.0			0.94643	0.0	0.92727	0.0							
lij		lij	0.49785	0.01493			0.53953	0.01238	0.64804	0.00758							
lin		lin	0.99145	0.00026			1.0	0.0	1.0	0.0							
lit		lit	0.9375	0.00103	0.68208	0.00255	0.96774	0.00051	0.98361	0.00024	0.97521	9e-05	0.9916	0.0			
lld		lld	0.53465	0.0018			0.5567	0.00126	0.51685	0.00073							
lmo		lmo	-	0.00991		0.00212	-	0.00897	-	0.00733		0.0006	-	4e-05			
lms		lms	-	-			-	-	-	-		-	-	-			
lob		lob	0.92857	0.00026			0.93694	0.00013	0.93578	0.0							
lot		lot	-	-			-	-	-	-		-	-	-			
loz		loz	0.84892	0.0			0.84892	0.0	0.84892	0.0							
ltz		ltz	0.98305	0.0	0.90435	0.00014	0.98305	0.0	0.98305	0.0	0.90265	9e-05	0.88889	0.0			
lua		lua	0.72414	0.0018			0.75	0.00126	0.78846	0.00037							
lue		lue	0.99145	0.0			0.99145	0.0	0.99145	0.0							
lug		lug	0.9589	0.00077			0.97222	0.00051	0.98592	0.00024							
lun		lun	0.81752	0.00039			0.8209	0.00013	0.82707	0.0							
lus		lus	0.94309	0.0009			0.95868	0.00063	0.97479	0.00037							
mad		mad	0.92174	0.0			0.92174	0.0	0.89286	0.0							
mag		mag	0.75385	0.00051			0.76562	0.00025	0.76362	0.00024							
mab		mab	0.96063	0.00064			1.0	0.0	1.0	0.0							
mai		mai	0.83099	0.0	0.06977	0.0	0.83099	0.0	0.83099	0.0	0.06977	0.0	0.02381	0.0			
mal		mal	1.0	0.0	0.9145	0.00108	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0			
mam		mam	0.93913	0.00026			0.95575	0.0	0.94643	0.0							
mar		mar	0.99174	0.00013	0.98361	9e-05	0.99174	0.00013	0.99174	0.00012	0.98361	9e-05	0.98361	9e-05			
maz		maz	0.83582	0.00219			0.85496	0.00177	0.896	0.00098							
med		med	0.97521	0.00026			0.9916	0.0	0.98305	0.0							
mef		mef	1.0	0.0			1.0	0.0	1.0	0.0							
men		men	0.9771	0.00039			0.9771	0.00038	0.99235	0.00012							
mfq		mfq	0.88722	0.00193			0.95935	0.00063	0.9916	0.00012							
mhr		mhr	-	-		5e-05	-	0.00013	-	0.00012		0	-	0			
mic		mic	0.15625	0.0			0.03333	0.0	-	-							
miq		miq	0.832	0.0			0.832	0.0	0.832	0.0							
mkd		mkd	0.99174	0.0	0.96774	0.00014	0.99174	0.0	0.99174	0.0	0.97561	9e-05	0.99174	0.0			
mlg		mlg	0.94737	0.00051	0.80342	0.00066	0.96429	0.00025	0.97297	0.00012	0.83673	5e-05	0.76923	0.0			
mlt		mlt	0.77419	0.00451	0.71951	0.00212	0.78947	0.00404	0.82759	0.00306	0.9916	0.0	0.98305	0.0			
mnw		mnw	-	-			-	-	-	-		-	-	-			
mon		mon	0.88276	0.00206	0.63317	0.00335	0.9771	0.00025	0.98462	0.00012	0.68108	0.00262	0.85714	0.00085			
mor		mor	0.9916	0.0			0.9916	0.0	0.9916	0.0							
mos		mos	0.97015	0.00051			0.98485	0.00025	0.99237	0.00012							
mri		mri	0.8227	0.00026			0.82857	0.00013	0.82857	0.00012							
mrj		mrj	-	-		9e-05	-	-	-	-	0	-	-	0			
msa	min/nd/zlm	id/min/ms	0.86842	0.00785	0.23222	0.05256	0.89535	0.00568	0.91124	0.0044	0.63004	0.00616	0.73232	0.00049			
mta		mta	1.0	0.00103			0.0	0.00038	0.0	0.00012							
mwj		mwj	-	0.00039		0.00019	-	0.00013	-	0.00012		5e-05	-	0			
mxi		mxi	-	-			-	-	-	-		-	-	-			
mxv		mxv	0.12121	0.0			0.12121	0.0	0.0625	0.0							
mya		mya	0.66667	0.00747	0.5042	0.00556	0.66667	0.00732	0.67045	0.00697	0.5042	0.00542	0.5042	0.00526			
myv		myv	-	-		9e-05	-	-	-	-	0	-	-	0			
mzi		mzi	-	-			-	-	-	-		-	-	-			
nah		nah	-	-			0.00042	-	-	-		9e-05	-	0			
nap		nap	-	-			0.00061	-	-	-		5e-05	-	4e-05			
nav		nav	0.9916	0.00013			1.0	0.0	1.0	0.0							
nba		nba	-	-			-	-	-	-		-	-	-			
ndo		ndo	0.8806	0.00206			0.90076	0.00164	0.95161	0.00073							
nds		nds	1.0	0.0	0.92308	0.00019	1.0	0.0	1.0	0.0	0.93913	9e-05	0.93913	9e-05			
nep		npi	0.99115	0.0	0.96552	0.00014	0.99115	0.0	0.99115	0.0	0.96552	0.00014	0.98246	4e-05			
nhn		nhn	-	-			-	-	-	-		-	-	-			
nio		nio	-	-			-	-	-	-		-	-	-			
niu		niu	1.0	0.0			1.0	0.0	1.0	0.0							
niv		niv	-	-			-	-	-	-		-	-	-			
njo		njo	0.95312	0.0			0.95312	0.0	0.95312	0.0							
nku		nku	-	-			-	-	-	-		-	-	-			
nld		nld	0.70659	0.00631	0.39189	0.00844	0.71084	0.00606	0.71515	0.00575	0.77333	0.00152	0.89231	0.00058			
nno		nno	0.95868	0.00039	0.4	0.00019	0.96667	0.00025	0.9661	0.00012	0.41558	5e-05	0.35616	0.0			
nob		nob	0.98462	0.00026	0.53744	0.00481	0.99225	0.00013	0.98438	0.00012	0.63212	0.00312	0.66286	0.00236			
not		not	0.97391	0.0			0.97391	0.0	0.97391	0.0							
nso		nso	0.86957	0.00232			0.87591	0.00215	0.88235	0.00196							
nya		nya	0.96414	0.00116			0.97581	0.00076	0.99588	0.00012							
nym		nym	-	-			-	-	-	-		-	-	-			
nyu		nyu	0.85938	0.0			0.85938	0.0	0.85938	0.0							
nzi		nzi	1.0	0.0			1.0	0.0	1.0	0.0							
oaa		oaa	-	-			-	-	-	-		-	-	-			
oci		oci	0.41101	0.0	0.22008	0.00132	0.40516	0.0	0.38131	0.0	0.17073	0.00078	0.09565	0.00022			
obj		obj	0.7027	0.0			0.7027	0.0	0.66667	0.0							
oki		oki	-	-			-	-	-	-		-	-	-			
orh		orh	-	-			-	-	-	-		-	-	-			
oss		oss	0.50273	0.00785	0.05128	0.0	0.50549	0.00758	0.50829	0.00721	0.02597	0.0	0.0	0.0			
ote		ote	1.0	0.00425			0.0	0.00341	0.0	0.00134							
pam		pam	1.0	0.0	1.0	0.00052	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0			
pan		pan	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0			
pap		pap	0.7973	0.00386			0.83099	0.00303	0.86765	0.0022							
pau		pau	0.97436	0.0			0.97436	0.0	0.97436	0.0							
pbb		pbb	0.71698	0.00554			0.76056	0.00366	0.816	0.00183							
pcd		pcd	-	-			-	-	-	-		-	-	-			
pcm		pcm	0.71739	0.0			0.71739	0.0	0.71739	0.0							
pfl		pfl	-	-		0.00014	-	-	-	-		0	-	0			
pis		pis	0.9916	0.0			0.9916	0.0	0.9916	0.0							
piu		piu	-	-			-	-	-	-		-	-	-			
pms		pms	-	0.00039		0.00085	-	0.00038	-	0.00012		0.00014	-	0			
pnb		pnb	0.65969	0.00785	0.65625	0.00292	0.65969	0.0077	0.65969	0.00746	0.66667	0.00271	0.65957	0.00263			
pol		pol	0.74074	0.00541	0.26966	0.01532	0.76923	0.00455	0.81633	0.0033	0.62176	0.00335	0.7284	0.00192			
pon		pon	1.0	0.0			1.0	0.0	1.0	0.0							
por		por	0.86957	0.00463	0.4829	0.01211	0.87273	0.00442	0.89219	0.00355	0.71642	0.00437	0.83624	0.0021			
pov		pov	0.96104	0.0			0.96104	0.0	0.95652	0.0							
ppl		ppl	0.42105	0.0			0.20896	0.0	0.125	0.0							
pus		pus	0.75	0.0	0.98305	0.0	0.75	0.0	0.75	0.0	0.98305	0.0	0.98305	0.0			
que	que/qxn/qvh/qub/qvc/qxu/quz/qvn/qug/qwh/qvm/quy/quc/qva	qu	0.92242	0.0													

														with confidence threshold θ					
iso639-3	UDHR Code(s)		FT176 Code(s)		GlotLID-M		FT176		GlotLID-M $\theta=3$		GlotLID-M $\theta=.5$		FT176 $\theta=3$		FT176 $\theta=.5$				
					F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	F1↑	FPR↓	
rnn	rnn	-	0.86636	0.00013				0.86111	0.00013	0.85047	0.00012								
roh	roh	rm	0.99268	0.0	<u>0.63764</u>	0.00118	0.99145	0.0	0.98775	0.0	0.29857	0.00014	0.09217	4e-05					
ron	ron	ro	0.81328	0.00566	0.57647	0.00674	0.80833	0.00556	<u>0.82906</u>	0.00465	0.80992	0.00207	0.91943	0.00067					
run	run	-	0.87591	0.00219			0.88889	0.00189	0.90909	0.00147									
rup	rup	-	0.125	0.0			0.125	0.0	0.09524	0.0									
rus	rus	ru	0.43478	0.02008	0.21352	0.02084	0.47431	0.0168	0.51064	0.01406	0.22901	0.01856	<u>0.27972</u>	0.01378					
sag	sag	-	0.81553	0.0			0.80392	0.0	0.79208	0.0									
sah	sah	sah	0.54128	0.01287	0.62105	0.00339	0.56459	0.01149	<u>0.60513</u>	0.00941	0.63441	0.00312	0.67836	0.00241					
san	san	sa	0.66667	0.0	<u>0.58333</u>	5e-05	0.66667	0.0	0.66667	0.0	0.58333	5e-05	0.51707	0.0					
scn	-	scn	-	0.00129		0.00061		0.00101		0.00024		0		0					
sco	sco	-	0.92683	0.00051	<u>0.0</u>	0.00042	0.95	0.00013	0.94118	0.00012	0.0	0.0	0.0	0.0	0.0				
sey	sey	-	0.02985	0.00051			0.0	0.00038											
shk	shk	-	0.88889	0.0			0.88889	0.0	0.86792	0.0									
shn	shn	-	0.99145	0.0			0.99145	0.0	0.99145	0.0									
shp	shp	-	0.27397	0.0			0.25	0.0	0.14706	0.0									
sid	sid	-	0.90625	0.00154			0.90625	0.00152	0.94309	0.00086									
sin	sin	si	1.0	0.0	0.99174	5e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0					
skr	skr	-																	
slk	slk	sk	0.88889	0.00193	0.88722	0.00066	0.9375	0.00101	<u>0.94488</u>	0.00086	0.96667	9e-05	0.97479	4e-05					
slr	slr	-																	
slv	slv	sl	0.92308	0.00129	0.26866	0.01358	0.96	0.00063	0.97561	0.00037	0.72483	0.00161	<u>0.8595</u>	0.0004					
sme	sme	-	0.96667	0.00026			0.96667	0.00025	0.96667	0.00024									
smo	smo	-	1.0	0.0			1.0	0.0	1.0	0.0									
sna	sna	-	0.93846	0.00103			0.96063	0.00063	0.98387	0.00024									
snk	snk	-																	
snn	snn	-	0.56818	0.0			0.56818	0.0	0.425	0.0									
som	som	so	0.75817	0.00476	<u>0.71318</u>	0.00118	0.80556	0.00354	0.89231	0.00171	0.29412	0.0	0.0339	0.0					
sot	sot	-	0.98333	0.00013			0.9916	0.0	0.9916	0.0									
spa	spa	es	0.75	0.00669	0.09529	0.07429	0.76415	0.00606	0.78	0.00477	0.24093	0.02403	<u>0.36281</u>	0.01239					
sqi	als	sq	0.85714	0.00257	0.3224	0.01164	0.86131	0.00227	0.89394	0.00159	0.49789	0.00542	<u>0.60825</u>	0.00334					
srđ	src	sc	0.88722	0.0018	<u>0.08955</u>	0.00019	0.93651	0.00088	0.97521	0.00024	0.0	0.0	0.0	0.0					
srr	srr	-	0.89231	0.00154			0.93443	0.00063	0.9661	0.00012									
ssw	ssw	-	0.94891	0.00077			0.97015	0.00038	0.99237	0.0									
suk	suk	-	0.68712	0.00065			0.69136	0.00581	0.71895	0.00465									
sun	sun	su	0.9697	0.00039	0.26891	0.0115	0.9771	0.00025	0.9771	0.00024	<u>0.68519</u>	0.00028	0.35443	0.0					
sus	sus	-	0.92683	0.00103			0.94215	0.00076	0.95798	0.00049									
swa	swh	sw	0.85315	0.0027	0.10546	0.04455	0.86525	0.0024	0.89051	0.00183	0.30321	0.01057	<u>0.49425</u>	0.00312					
swb	swb	-	0.80292	0.00296			0.84615	0.00202	0.86885	0.00122									
swe	swe	sv	0.88112	0.00219	0.86713	0.00085	0.93333	0.00114	1.0	0.0	0.96875	0.00014	<u>0.98413</u>	4e-05					
tah	tah	-	0.91892	0.00013			0.91892	0.00013	0.92727	0.0									
taj	taj	-	0.66667	0.0			0.66667	0.0											
tam	tam	ta	1.0	0.0	0.95238	0.00057	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0				
tat	tat	tt	0.68208	0.00695	0.4055	0.00811	0.68208	0.00682	0.69822	0.00611	0.42754	0.00721	<u>0.50862</u>	0.00504					
tbz	tbz	-	0.20896	0.0			0.18182	0.0	0.09524	0.0									
tca	tca	-	0.9916	0.0			0.9916	0.0	0.9916	0.0									
tdt	tdt	-	0.66292	0.0076			0.66292	0.00745	0.65537	0.00721									
tel	tel	te	1.0	0.0	0.9916	5e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0				
tem	tem	-	0.97345	0.0			0.97345	0.0	0.94545	0.0									
tet	tet	-																	
tgk	tgk	tg	0.86131	0.00245	0.67429	0.00269	0.92913	0.00114	0.95082	0.00061	0.68605	0.00248	<u>0.71951</u>	0.00205					
tgl	tgl	tl	0.9403	0.0009	0.09104	0.05826	0.95455	0.00063	0.97674	0.00024	0.49799	0.00565	<u>0.83562</u>	0.00094					
tha	tha	th	1.0	0.0	0.99574	5e-05	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0				
tir	tir	-	1.0	0.0			1.0	0.0	1.0	0.0									
tiv	tiv	-	0.98551	0.00026			1.0	0.0	1.0	0.0									
tly	tly	-																	
tob	tob	-	0.98361	0.00026			0.98361	0.00025	0.99174	0.00012									
toi	toi	-	1.0	0.0			1.0	0.0	1.0	0.0									
toj	toj	-	0.83688	0.00026			0.83688	0.00025	0.84892	0.0									
ton	ton	-	1.0	0.0			1.0	0.0	1.0	0.0									
top	top	-	0.99174	0.00013			0.99174	0.00013	0.99174	0.00012									
tpi	tpi	-	0.98361	0.00013			0.98361	0.00013	0.98361	0.00012									
tsn	tsn	-	0.98361	0.00026			0.99174	0.00013	0.99174	0.00012									
tso	tso	-	0.94158	0.0018			0.94158	0.00177	0.95139	0.00134									
tsz	tsz	-	0.82517	0.00309			0.86765	0.00215	0.90625	0.00122									
tuk	tuk	tk	0.96748	0.00103	0.53659	5e-05	0.96748	0.00101	0.98347	0.00049	<u>0.53988</u>	0.0	0.47436	0.0					
tur	tur	tr	0.49383	0.01583	0.19704	0.02305	0.50209	0.01503	0.51502	0.01381	0.29777	0.013	<u>0.35714</u>	0.00963					
twi	twi	-	0.95349	0.00154			0.96094	0.00126	0.9685	0.00098									
tyv	tyv	tyv	0.98361	0.00026	<u>0.55422</u>	0.0	0.99174	0.00013	1.0	0.0	0.55422	0.0	0.35616	0.0					
tzh	tzh	-	0.98333	0.00026			0.98333	0.00025	0.9916	0.00012									
tzm	tzm	-	0.01754	0.00669			0.01754	0.00657	0.0177	0.00623									
tzo	tzo	-	0.97479	0.00013			0.98305	0.0	0.98305	0.0									
udu	udu	-	0.98361	0.00026			0.99174	0.00013	0.99174	0.00012									
uig	uig	ug	0.91892	0.0	0.66667	0.0	0.91403	0.0	0.89908	0.0	0.66667	0.0	0.66667	0.0					
ukr	ukr	uk	0.98361	0.00026	0.80537	0.00137	0.98361	0.00025	0.99174	0.00012	0.84507	0.00101	<u>0.86957</u>	0.0008					
umb	umb	-	0.87931	0.00129			0.87931	0.00126	0.87611	0.00086									
ura	ura	-	0.82963	0.0			0.82963	0.0	0.82963	0.0									
urd	urd	ur	0.96522	0.0009	0.70701	0.00429	0.96522	0.00088	0.96522	0.00086	0.92116	0.00083	<u>0.96104</u>	0.00036					
uzb	uzn	uz	0.70414	0.01274	0.40741	0.00448	0.78033	0.00833	0.86545	0.0044	<u>0.57754</u>	0.0006	0.56977	0.00013					
vai	vai	-																	
vec	vec	vec	0.94488	0.0009	<u>0.62385</u>	0.00071	0.95238	0.00076	0.96774	0.00049	0.58427	0.00014	0.35616	0.0					
ven	ven	-	1.0	0.0			1.0	0.0	1.0	0.0									
vep	vep	vep			0.0625	9e-05					0.03279	0.0	0.03279	0.0					
vie	vie	vi	<u>0.66304</u>	0.00013	0.58095	0.00127	0.66304	0.00013	0.66304	0.00012	0.6455	0.00028	0.66667	0.0					
vmw	vmw	-	0.95798	0.00026			0.97436	0.0	0.97436	0.0									
vol	-	vo	-	0.00028			0.00028	0.0	0.89908	0.0	0.00014	0.00014		4e-05					
war	war	war	0.9916	0.0	0.25993	0.00853	0.9916	0.0	0.9916	0.0	0.44872	0.0028	0.36364	0.00094					
wln	wln	wa	0.62105	0.00914	<u>0.05085</u>	0.00259	0.62434	0.00884	0.64481	0.00782	0.01887	0.00207	0.0	0.00152					
wol	wol	-	0.79747	0.00412			0.86897	0.0024	0.92537	0.0011									
wwa	wwa	-	0.88636	0.0			0.88636	0.0	0.87356	0.0									
xho	xho	-	0.94574	0.0009															

		with confidence threshold θ												
iso639-3	UDHR Code(s)	OpenLID Code(s)	GlottLID-M		OpenLID		GlottLID-M $\theta=3$		GlottLID-M $\theta=5$		OpenLID $\theta=3$		OpenLID $\theta=5$	
			F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow
ace	ace	ace	0.90909	0.00126	0.71856	0.00247	0.91603	0.00107	0.91603	0.00103	0.83916	0.00247	0.88889	0.00075
afr	afr	afr	0.95238	0.00068	0.88235	0.00086	0.96774	0.00043	0.97561	0.00031	0.90909	0.00086	0.96	0.00027
als	als	als	0.86131	0.00205	0.32153	0.01331	0.7377	0.00182	0.56863	0.00134	0.38689	0.01331	0.472	0.00702
amh	amh	amh	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
arb	arb	arb	0.98333	0.00011	0.92437	0.00021	0.92035	0.00011	0.8381	0.0001	0.94017	0.00021	0.94828	5e-05
ast	ast	ast	0.97521	0.00011	0.66667	0.00317	0.97521	0.00011	0.98333	0.0	0.75472	0.00317	0.81633	0.00139
ayr	ayr	ayr	0.99174	0.00011	0.75472	0.00209	0.91071	0.00011	0.84615	0.0	0.81081	0.00209	0.89552	0.00075
azb	azb	azb												
azj	azj	azj	0.74306	0.00696	0.48163	0.00354	0.15789	0.00215	0.03008	0.00113	0.4856	0.00354	0.4876	0.00338
bam	bam	bam	0.49682	0.00662	0.19403	0.02275	0.5098	0.0058	0.55319	0.00433	0.20553	0.02275	0.26	0.01543
ban	ban	ban	0.97561	0.00011	0.79195	0.0015	0.98361	0.0	0.97521	0.0	0.83453	0.0015	0.87218	0.0007
bel	bel	bel	0.98333	0.0	0.34706	0.0118	0.98333	0.0	0.98333	0.0	0.35224	0.0118	0.39333	0.00964
bem	bem	bem	0.98333	0.00023	0.40411	0.00934	0.98333	0.00021	0.98333	0.00021	0.41844	0.00934	0.47581	0.00696
ben	ben	ben	1.0	0.0	0.99213	5e-05	1.0	0.0	1.0	0.0	1.0	5e-05	1.0	0.0
bho	bho	bho	0.78519	0.00034	0.78519	0.00365	0.78519	0.00032	0.77273	0.00021	0.79104	0.00016	0.78195	0.00011
bod	bod	bod	0.89091	0.00011	0.7451	0.00021	0.89091	0.00011	0.89091	0.0001	0.7451	0.00021	0.7451	0.00021
bos	bos	bos	0.18103	0.01038	0.18841	0.00698	0.18605	0.00805	0.14607	0.00464	0.19403	0.00698	0.20077	0.00605
bug	bug	bug	0.95312	0.00057	0.76129	0.00182	0.96063	0.00043	0.976	0.00021	0.80272	0.00182	0.86765	0.0008
bul	bul	bul	0.96	0.00057	0.9375	0.00043	0.96	0.00054	0.97561	0.00031	0.95238	0.00043	0.95238	0.00032
cat	cat	cat	0.93023	0.00103	0.91603	0.00059	0.95238	0.00064	0.96774	0.00041	0.92308	0.00059	0.96	0.00027
ceb	ceb	ceb	0.96721	0.00046	0.58416	0.00451	0.9916	0.00011	1.0	0.0	0.60825	0.00451	0.64481	0.00348
ces	ces	ces	0.98387	0.0	0.93846	0.00032	0.98387	0.0	0.98387	0.0	0.96063	0.00032	0.976	5e-05
cjk	cjk	cjk	0.92641	0.00034	0.61995	0.00724	0.92641	0.00032	0.92035	0.0001	0.63014	0.00724	0.66667	0.00563
ckb	ckb	ckb												
crh	crh	crh	0.97561	0.00034	0.82759	0.00134	0.98361	0.00021	0.98361	0.00021	0.86331	0.00134	0.88235	0.00086
cym	cym	cym	1.0	0.0	0.82667	0.0014	1.0	0.0	1.0	0.0	0.91852	0.0014	0.96124	0.00027
dan	dan	dan	0.85135	0.00251	0.84932	0.00113	0.91304	0.00129	0.98437	0.00021	0.88571	0.00113	0.96124	0.00021
deu	deu	deu	0.98745	0.00011	0.97119	0.00027	0.98745	0.00011	0.98745	0.0001	0.97521	0.00027	0.98333	0.00011
dyu	dyu	dyu	0.23188	0.00719	0.05594	0.00429	0.22059	0.00665	0.17323	0.00587	0.05714	0.00429	0.06452	0.00327
dzo	dzo	dzo	0.90769	0.00126	0.81159	0.00118	0.90769	0.00118	0.90769	0.00113	0.81159	0.00118	0.81159	0.00118
ell	ell	ell	0.97908	0.0	1.0	0.0	0.97908	0.0	0.97908	0.0	1.0	0.0	1.0	0.0
eng	eng	eng	0.85294	0.00205	0.43123	0.0081	0.87218	0.00161	0.8855	0.00134	0.46586	0.0081	0.50435	0.0006
epo	epo	epo	0.96825	0.00046	0.63492	0.00365	0.976	0.00032	0.976	0.00031	0.69767	0.00365	0.77419	0.00182
ekk	ekk	ekk	0.9375	0.00091	0.33803	0.01261	1.0	0.0	1.0	0.0	0.41096	0.01261	0.55556	0.00514
eus	eus	eus	0.91729	0.00126	0.16901	0.0316	0.96825	0.00043	0.98387	0.00021	0.22901	0.0316	0.34091	0.01238
ewe	ewe	ewe	0.98361	0.00023	0.38462	0.0103	0.98361	0.00021	0.98361	0.00021	0.4	0.0103	0.43165	0.00847
fao	fao	fao	0.98305	0.0	0.94309	0.00027	0.98305	0.0	0.98305	0.0	0.96667	0.00027	0.98305	0.0
fij	fij	fij	1.0	0.0	0.9	0.00075	1.0	0.0	1.0	0.0	0.94737	0.00075	0.96923	0.00021
fin	fin	fin	0.36311	0.02522	0.20064	0.02694	0.38769	0.02136	0.41311	0.01844	0.23909	0.02694	0.29717	0.01597
fon	fon	fon	0.94118	0.00046	0.34627	0.0117	0.94915	0.00032	0.95726	0.00021	0.35692	0.0117	0.42804	0.00825
fra	fra	fra	0.95238	0.00068	0.95161	0.00027	0.95935	0.00043	0.9661	0.0001	0.96721	0.00027	0.98333	5e-05
fur	fur	fur	0.944	0.00068	0.45736	0.00746	0.95935	0.00043	0.96721	0.00031	0.46825	0.00746	0.5514	0.00509
fuv	fuv	fuv	0.77912	0.00217	0.52133	0.0096	0.80833	0.00107	0.81197	0.00062	0.57743	0.0096	0.69401	0.00396
gaz	gaz	gaz	0.83221	0.00285	0.248	0.02017	0.88235	0.0015	0.83761	0.00062	0.27991	0.02017	0.36364	0.01163
gla	gla	gla	0.94574	0.00023	0.57416	0.00445	0.95312	0.00011	0.96063	0.0	0.64516	0.00445	0.71429	0.00225
gle	gle	gle	0.95	0.00091	0.7037	0.00343	0.96815	0.00054	0.96815	0.00052	0.80423	0.00343	0.94912	0.00096
glg	glg	glg	0.98305	0.00011	0.88372	0.0007	0.98305	0.00011	0.98305	0.0001	0.89764	0.0007	0.91935	0.00043
grn	grn	grn	0.816	0.00023	0.23742	0.01964	0.82927	0.0	0.81967	0.0	0.26281	0.01964	0.30287	0.01355
guj	guj	guj	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
hat	hat	hat	0.90706	0.00285	0.41368	0.01835	0.9313	0.00193	0.95312	0.00124	0.45149	0.01835	0.51489	0.01216
hau	hau	hau	0.94488	0.00024	0.57508	0.01427	0.96	0.00161	0.97297	0.00103	0.6679	0.01427	0.78261	0.00536
heb	heb	heb	0.99145	0.00011	0.99145	5e-05	1.0	0.0	1.0	0.0	0.99145	5e-05	0.99145	5e-05
hin	hin	hin	0.62	0.00867	0.63559	0.00381	0.62312	0.00805	0.62944	0.00752	0.6359	0.00381	0.63918	0.00375
hrv	hrv	hrv	0.60302	0.00902	0.52252	0.00558	0.62176	0.00784	0.69364	0.00546	0.57426	0.00558	0.62032	0.0037
hun	hun	hun	0.82192	0.00297	0.56459	0.00483	0.84507	0.00236	0.89552	0.00144	0.71084	0.00483	0.81379	0.00139
hye	hye	hye	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
ibo	ibo	ibo	0.98718	0.00023	0.63115	0.00483	0.99355	0.00011	1.0	0.0	0.66379	0.00483	0.74038	0.00289
ilo	ilo	ilo	0.91339	0.00126	0.71166	0.00252	0.928	0.00097	0.97479	0.00031	0.8227	0.00252	0.92063	0.00054
ind	ind	ind	0.72483	0.00411	0.68531	0.00188	0.76056	0.00311	0.78261	0.00258	0.71014	0.00188	0.72593	0.00145
isl	isl	isl	0.9916	0.00011	0.9916	5e-05	0.9916	0.00011	0.9916	0.0001	0.9916	5e-05	0.9916	5e-05
ita	ita	ita	0.7947	0.00342	0.67416	0.00306	0.83916	0.00236	0.86957	0.00175	0.73171	0.00306	0.78431	0.00171
jav	jav	jav	0.97581	0.00046	0.41404	0.00553	0.97581	0.00043	0.97561	0.00031	0.46275	0.00553	0.50213	0.00284
jpn	jpn	jpn	0.72195	0.01301	0.64745	0.00842	0.7861	0.00848	0.79245	0.00783	0.71921	0.00842	0.77249	0.0045
kan	kan	kan	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
kat	kat	kat	1.0	0.0	0.99394	5e-05	1.0	0.0	1.0	0.0	1.0	5e-05	1.0	0.0
kaz	kaz	kaz	0.96721	0.00034	0.40989	0.00885	0.97521	0.00021	0.96667	0.00021	0.41281	0.00885	0.42336	0.00836
kbp	kbp	kbp	0.85714	0.00228	0.23438	0.02103	0.90909	0.00129	0.9375	0.00082	0.24048	0.02103	0.26786	0.01757
kea	kea	kea	0.72727	0.00114	0.07627	0.00896	0.72727	0.00107	0.69811	0.00093	0.08333	0.00896	0.07254	0.00675
khk	khk	khk	0.99225	0.0	0.5	0.00681	0.63158	0.0	0.33333	0.0	0.50593	0.00681	0.55172	0.00552
khm	khm	khm	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
kin	kin	kin	0.76336	0.00024	0.53061	0.00258	0.81967	0.00129	0.8547	0.00072	0.56522	0.00258	0.64463	0.00118
kir	kir	kir	0.94488	0.0008	0.35503	0.0117	0.95238	0.00064	0.96774	0.00041	0.35714	0.0117	0.39216	0.00997
kmb	kmb	kmb	0.99194	0.00011	0.82034	0.00268	0.99194	0.00011	0.99194	0.0001	0.86738	0.00268	0.92015	0.00096
kmr	kmr	k												

iso639-3	UDHR Code(s)	OpenLID Code(s)	with confidence threshold θ											
			GlottLID-M		OpenLID		GlottLID-M $\theta=3$		GlottLID-M $\theta=5$		OpenLID $\theta=3$		OpenLID $\theta=5$	
			F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow
lin	lin	lin	0.99145	0.00023	0.93173	0.00091	1.0	0.0	1.0	0.0	0.95868	0.00091	0.98712	0.00011
lit	lit	lit	0.9375	0.00091	0.78146	0.00172	0.96774	0.00043	0.98361	0.00021	0.90769	0.00172	0.95161	0.00027
ltz	ltz	ltz	0.98305	0.0	0.87879	0.00075	0.98305	0.0	0.98305	0.0	0.87879	0.00075	0.90625	0.00054
lua	lua	lua	0.71186	0.00183	0.68263	0.00268	0.75	0.00107	0.78846	0.00031	0.72152	0.00268	0.7619	0.00166
lug	lug	lug	0.9589	0.00068	0.4	0.01127	0.97222	0.00043	0.98592	0.00021	0.4375	0.01127	0.49822	0.00755
lus	lus	lus	0.93548	0.00091	0.28087	0.01594	0.95868	0.00054	0.97479	0.00031	0.30208	0.01594	0.31868	0.01329
lvs	lvs	lvs	0.94118	0.00171	0.9375	0.00086	0.92623	0.00118	0.90213	0.00093	0.97959	0.00086	0.98361	0.00021
mag	mag	mag	0.75385	0.00046	0.76336	0.00021	0.76562	0.00021	0.76562	0.00021	0.76336	0.00021	0.75969	0.00016
mai	mai	mai	0.83099	0.0	0.81944	0.00011	0.83099	0.0	0.83099	0.0	0.81944	0.00011	0.81944	0.00011
mal	mal	mal	1.0	0.0	0.99595	5e-05	1.0	0.0	1.0	0.0	0.99595	5e-05	1.0	0.0
mar	mar	mar	0.99174	0.00011	0.98361	0.00011	0.99174	0.00011	0.99174	0.00011	0.99174	0.00011	0.99174	5e-05
min	min	min	0.88235	0.00171	0.63492	0.00365	0.91603	0.00107	0.92187	0.00082	0.69767	0.00365	0.74534	0.00214
mkd	mkd	mkd	0.99174	0.0	0.97561	0.00011	0.99174	0.0	0.99174	0.0	0.97561	0.00011	0.98361	5e-05
mlt	mlt	mlt	0.77419	0.00399	0.59	0.00435	0.78947	0.00343	0.82759	0.00258	0.68208	0.00435	0.82517	0.00129
mos	mos	mos	0.97015	0.00046	0.56769	0.00531	0.98485	0.00021	0.99237	0.0001	0.62201	0.00531	0.7027	0.00295
mri	mri	mri	0.8227	0.00023	0.26608	0.01663	0.82857	0.00011	0.82857	0.0001	0.27523	0.01663	0.2864	0.01489
mya	mya	mya	0.66292	0.00673	0.66667	0.00311	0.66292	0.00633	0.67045	0.00587	0.68966	0.00311	0.66667	0.00311
nld	nld	nld	0.70238	0.00571	0.57843	0.00461	0.71084	0.00515	0.71515	0.00484	0.68208	0.00461	0.77124	0.00188
nno	nno	nno	0.95868	0.00034	0.912	0.00043	0.96667	0.00021	0.9661	0.0001	0.92683	0.00043	0.94215	0.00021
nob	nob	nob	0.98462	0.00023	0.85906	0.00113	0.99225	0.00011	0.98438	0.0001	0.92754	0.00113	0.96241	0.00027
npi	npi	npi	0.98214	0.0	0.97345	5e-05	0.575	0.0	0.32353	0.0	0.97345	5e-05	0.97297	0.0
nso	nso	nso	0.86957	0.00205	0.80537	0.00156	0.87591	0.00182	0.88235	0.00165	0.82759	0.00156	0.83916	0.00123
nya	nya	nya	0.96414	0.00103	0.74462	0.00445	0.97581	0.00064	0.99588	0.0001	0.7707	0.00445	0.86121	0.00209
oci	oci	oci	0.41101	0.0	0.41187	0.00118	0.40516	0.0	0.38131	0.0	0.40773	0.00118	0.38838	0.00059
pan	pan	pan	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
pap	pap	pap	0.79195	0.00354	0.35224	0.01164	0.83099	0.00258	0.86765	0.00185	0.41404	0.01164	0.5514	0.00514
pes	pes	pes	0.65922	0.00696	0.62745	0.00247	0.63855	0.0058	0.54135	0.00391	0.63158	0.00247	0.63158	0.00241
plt	plt	plt	0.98182	0.0	0.92308	0.00038	0.98182	0.0	0.98182	0.0	0.95575	0.00038	0.97297	5e-05
pol	pol	pol	0.74074	0.00479	0.64516	0.00354	0.76923	0.00386	0.81633	0.00278	0.68966	0.00354	0.76433	0.00198
por	por	por	0.86331	0.00434	0.70588	0.00537	0.87273	0.00376	0.89219	0.00299	0.73171	0.00537	0.7717	0.0038
prs	prs	prs	0.0	0.00274	0.33333	0.00075	0.0	0.00258	0.0	0.00247	0.34483	0.00075	0.34483	0.00059
quy	quy	quy	0.70115	0.00593	0.10816	0.05398	0.82993	0.00268	0.88406	0.00165	0.11244	0.05398	0.11949	0.04817
ron	ron	ron	0.80992	0.00514	0.76078	0.00317	0.80833	0.00472	0.82906	0.00391	0.776	0.00317	0.79508	0.00257
run	run	run	0.88235	0.00183	0.44776	0.00794	0.88889	0.00161	0.90909	0.00124	0.50633	0.00794	0.6	0.00429
rus	rus	rus	0.43321	0.01792	0.37037	0.01095	0.47431	0.01427	0.51064	0.01185	0.37855	0.01095	0.41522	0.00905
sag	sag	sag	0.81553	0.0	0.65806	0.00231	0.80392	0.0	0.79208	0.0	0.74453	0.00231	0.81356	0.00048
san	san	san	0.66667	0.0	0.66376	5e-05	0.66667	0.0	0.66667	0.0	0.66376	5e-05	0.66376	5e-05
shn	shn	shn	0.99145	0.0	0.99145	0.0	0.99145	0.0	0.99145	0.0	0.99145	0.0	0.99145	0.0
sin	sin	sin	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
slk	slk	slk	0.87591	0.00194	0.68571	0.00295	0.9375	0.00086	0.94488	0.00072	0.75472	0.00295	0.90909	0.00064
slv	slv	slv	0.89552	0.0016	0.50847	0.00622	0.95238	0.00064	0.97561	0.00031	0.65934	0.00622	0.78947	0.00171
smo	smo	smo	1.0	0.0	0.84564	0.00123	1.0	0.0	1.0	0.0	0.85135	0.00123	0.875	0.00096
sma	sma	sma	0.93846	0.00091	0.41781	0.00912	0.96063	0.00054	0.98387	0.00021	0.54955	0.00912	0.7673	0.00198
sna	sna	sna	0.75817	0.00422	0.44106	0.00789	0.80556	0.00301	0.89231	0.00144	0.48333	0.00789	0.50184	0.00429
som	som	som	0.98333	0.00011	0.86667	0.00043	0.9916	0.0	0.9916	0.0	0.87395	0.00043	0.88889	0.00027
sot	sot	sot	0.72321	0.00685	0.69333	0.00343	0.75701	0.00537	0.78	0.00402	0.72558	0.00343	0.75362	0.00246
spa	spa	spa	0.9916	0.0	0.63158	0.00376	0.9916	0.0	0.9916	0.0	0.66667	0.00376	0.76433	0.00198
srd	srd	srd	0.5124	0.00685	0.48133	0.00338	0.4958	0.00633	0.48945	0.00608	0.48333	0.00338	0.48536	0.00327
srp	srp	srp	0.94891	0.00068	0.72626	0.00258	0.97015	0.00032	0.99237	0.0	0.76923	0.00258	0.89655	0.00075
ssw	ssw	ssw	0.9697	0.00034	0.52282	0.00606	0.9771	0.00021	0.9771	0.00021	0.63317	0.00606	0.77301	0.00188
sun	sun	sun	0.86301	0.00228	0.89362	0.0008	0.93333	0.00097	1.0	0.0	0.96183	0.0008	0.98437	0.00011
swe	swe	swe	0.84956	0.00046	0.1868	0.02694	0.84685	0.00032	0.78	0.0	0.22351	0.02694	0.29517	0.01468
tam	tam	tam	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tat	tat	tat	0.65556	0.00696	0.40972	0.00907	0.68208	0.0058	0.69822	0.00515	0.42143	0.00907	0.46457	0.00723
tel	tel	tel	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tgk	tgk	tgk	0.67429	0.0065	0.44106	0.00783	0.92913	0.00097	0.95082	0.00052	0.45312	0.00783	0.53211	0.00541
tgl	tgl	tgl	0.9403	0.0008	0.58879	0.00467	0.95455	0.00054	0.97674	0.00021	0.61165	0.00467	0.6738	0.00321
tha	tha	tha	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tir	tir	tir	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tpi	tpi	tpi	0.98361	0.00011	0.47431	0.00708	0.98361	0.00011	0.98361	0.0001	0.51724	0.00708	0.56338	0.00493
tsn	tsn	tsn	0.98361	0.00023	0.85106	0.00113	0.99174	0.00011	0.99174	0.0001	0.90909	0.00113	0.92308	0.00054
tso	tso	tso	0.94158	0.0016	0.63205	0.00875	0.94158	0.0015	0.95139	0.00113	0.64965	0.00875	0.68293	0.00696
tuk	tuk	tuk	0.94821	0.00148	0.62564	0.0008	0.96748	0.00086	0.98347	0.00041	0.65591	0.0008	0.66667	0.00016
tur	tur	tur	0.4918	0.01415	0.34384	0.01229	0.50209	0.01277	0.51502	0.01164	0.35928	0.01229	0.37975	0.0105
twi	twi	twi	0.95349	0.00137	0.5234	0.01202	0.96094	0.00107	0.9685	0.00082	0.55034	0.01202	0.60891	0.00847
tzm	tzm	tzm	0.01754	0.00593	0.01653	0.00317	0.01754	0.00558	0.0177	0.00525	0.01653	0.00317	0.01653	0.00316
uig	uig	uig	0.90295	0.00114	0.66667	0.0	0.93333	0.0	0.89908	0.0	0.66667	0.0	0.66667	0.0
ukr	ukr	ukr	0.98361	0.00023	0.96	0.00027	0.98361	0.00021	0.99174	0.0001	0.96	0.00027	0.98361	0.00011
umb	umb	umb	0.87931	0.00114	0.85409	0.0022	0.87931	0.00107	0.87611	0.00072	0.86957	0.0022	0.90226	0.00139
urd	urd	urd	0.96522	0.0008	0.61838	0.0073	0.96522	0.00075	0.96522	0.00072	0.62011	0.0073	0.62535	0.00707
uzn	uzn	uzn	0.50407	0.0073	0.18072	0.02597	0.53881	0.00429	0.56716	0.00247	0.21277	0.02597	0.27523	0.01372
vec	vec	vec	0.92308	0.00114	0.76923	0.00193	0.95238	0.00064	0.96774	0.00041	0.7947	0.00193	0.8	

			with confidence threshold θ											
iso639-3	UDHR Code(s)	NLLB Code(s)	GlotLID-M		NLLB		GlotLID-M $\theta=3$		GlotLID-M $\theta=5$		NLLB $\theta=3$		NLLB $\theta=5$	
			F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow
abk	abk	abk			0.98333	6e-05								
ace	ace	ace	0.90909	0.00126	0.53153	0.0057	0.91603	0.00107	0.91603	0.00103	0.57005	0.0057	<u>0.9916</u>	0.0
ady	ady	ady	0.83495	0.0	0.63441	0.00375	0.83495	0.0	0.83495	0.0	0.65193	0.00375	<u>0.67045</u>	0.00314
afr	afr	afr	0.95238	0.00068	0.90769	0.00062	0.96774	0.00043	0.97561	0.00031	0.91473	0.00062	<u>0.93651</u>	0.00039
aka	fat/twi	aka/twi	1.0	0.0	0.60884	0.01264	1.0	0.0	1.0	0.0	0.65209	0.01264	<u>0.72032</u>	0.00743
als	als	als	0.86131	0.00205	0.43066	0.00867	0.7377	0.00182	0.56863	0.00134	0.48163	0.00867	<u>0.58416</u>	0.00457
alt	alt	alt	0.95495	0.00034	0.76259	0.00173	0.96364	0.00021	0.96364	0.00021	0.76259	0.00173	<u>0.80303</u>	0.00132
amh	amh	amh	1.0	0.0	0.88189	6e-05	1.0	0.0	1.0	0.0	0.7156	6e-05	<u>0.6</u>	0.0
arb	arb	arb	0.98333	0.00011	0.60914	0.00431	0.92035	0.00011	0.8381	0.0001	0.76433	0.00431	<u>0.88235</u>	0.00088
arn	arn	arn	0.93913	0.00011	0.75676	0.00179	0.94737	0.0	0.94737	0.0	0.86154	0.00179	<u>0.9322</u>	0.00017
ast	ast	ast	0.97521	0.00011	0.57561	0.00475	0.97521	0.00011	0.98333	0.0	0.76129	0.00475	<u>0.86765</u>	0.00088
ayr	ayr	ayr	0.99174	0.00011	0.69461	0.00274	0.91071	0.00011	0.84615	0.0	0.76821	0.00274	<u>0.87218</u>	0.00083
azb	azb	azb												
azj	azj	azj	0.74306	0.00696	0.42754	0.00542	0.15789	0.00215	0.03008	0.00113	0.45736	0.00542	<u>0.4739</u>	0.00385
bam	bam	bam	0.49682	0.00662	0.20961	0.01957	0.5098	0.0058	0.55319	0.00433	0.22857	0.01957	<u>0.27666</u>	0.01315
ban	ban	ban	0.97561	0.00011	0.7044	0.00229	0.98361	0.0	0.97521	0.0	0.77241	0.00229	<u>0.82963</u>	0.00094
bel	bel	bel	0.98333	0.0	0.80272	0.00151	0.98333	0.0	0.98333	0.0	0.81379	0.00151	<u>0.88722</u>	0.00072
bem	bem	bem	0.98333	0.00023	0.40714	0.00917	0.98333	0.00021	0.98333	0.00021	0.41455	0.00917	<u>0.46914</u>	0.00699
ben	ben	ben	1.0	0.0	0.992	0.0	1.0	0.0	1.0	0.0	0.992	0.0	<u>0.992</u>	0.0
bho	bho	bho	0.78519	0.00034	0.66116	0.00011	0.78519	0.00032	0.72723	0.00021	0.66116	0.00011	<u>0.66116</u>	0.00011
bis	bis	bis	1.0	0.0	0.71006	0.00274	1.0	0.0	1.0	0.0	0.71856	0.00274	<u>0.75949</u>	0.00209
bod	bod	bod	0.89091	0.00011	0.61224	0.00425	0.89091	0.00011	0.89091	0.0001	0.72727	0.00425	<u>0.77922</u>	0.00187
bos	bos	bos	0.18103	0.01039	0.14857	0.01141	0.18605	0.00805	0.14607	0.00464	0.16456	0.01141	<u>0.18056</u>	0.00781
bug	bug	bug	0.95312	0.00057	0.7439	0.00229	0.96063	0.00043	0.976	0.00021	0.82432	0.00229	<u>0.91729</u>	0.00055
bul	bul	bul	0.96	0.00057	0.95868	0.00017	0.96	0.00054	0.97561	0.00031	0.95868	0.00017	<u>0.97479</u>	6e-05
cat	cat	cat	0.93023	0.00103	0.49793	0.00677	0.95238	0.00064	0.96774	0.00041	0.63492	0.00677	<u>0.81633</u>	0.00149
ceb	ceb	ceb	0.96721	0.00046	0.57143	0.00481	0.9916	0.00011	1.0	0.0	0.59487	0.00481	<u>0.61702</u>	0.00391
ces	ces	ces	0.98387	0.0	0.79487	0.00173	0.98387	0.0	0.98387	0.0	0.89855	0.00173	<u>0.94656</u>	0.00033
chv	chv	chv	0.86154	0.0	0.8	0.00028	0.86154	0.0	0.86154	0.0	0.82353	0.00028	<u>0.83582</u>	0.00011
chk	chk	chk	0.92641	0.00034	0.56296	0.00951	0.92641	0.00032	0.92035	0.0001	0.57431	0.00951	<u>0.6137</u>	0.00726
ckb	ckb	ckb												
crh	crh	crh	0.97561	0.00034	0.9375	0.00045	0.98361	0.00021	0.98361	0.00021	0.96	0.00045	1.0	0.0
cym	cym	cym	1.0	0.0	0.77215	0.00196	1.0	0.0	1.0	0.0	0.82432	0.00196	<u>0.87143</u>	0.00094
dan	dan	dan	0.85135	0.00251	0.87143	0.00089	0.91304	0.00129	0.98437	0.00021	0.96825	0.00089	<u>0.96825</u>	0.00011
deu	deu	deu	0.98745	0.00011	0.64	0.00755	0.98745	0.00011	0.98745	0.0001	0.73846	0.00755	<u>0.79208</u>	0.00347
dyu	dyu	dyu	0.23188	0.00719	0.04167	0.00721	0.22059	0.00666	0.17323	0.00587	<u>0.04396</u>	0.00721	<u>0.02581</u>	0.00517
dzo	dzo	dzo	0.90769	0.00126	0.68132	0.0	0.90769	0.00118	0.90769	0.00113	0.68132	0.0	<u>0.58824</u>	0.0
ell	ell	ell	0.97908	0.0	0.98333	0.0	0.97908	0.0	0.97908	0.0	0.97479	0.0	<u>0.97479</u>	0.0
eng	eng	eng	0.85294	0.00205	0.34188	0.01292	0.87218	0.00161	0.8855	0.00134	0.39867	0.01292	<u>0.46693</u>	0.00754
epo	epo	epo	0.96825	0.00046	0.31202	0.01504	0.976	0.00032	0.976	0.00031	0.36858	0.01504	<u>0.44203</u>	0.00847
est	ekk	est	0.9375	0.00091	0.27778	0.01745	1.0	0.0	1.0	0.0	0.3252	0.01745	<u>0.43165</u>	0.00869
eus	eus	eus	0.91729	0.00126	0.67052	0.00302	0.96825	0.00043	0.98387	0.00021	0.81119	0.00302	<u>0.91339</u>	0.00044
ewe	ewe	ewe	0.98361	0.00023	0.36137	0.01135	0.98361	0.00021	0.98361	0.00021	0.4	0.01135	<u>0.44106</u>	0.00798
fao	fao	fao	0.98305	0.0	0.64444	6e-05	0.98305	0.0	0.98305	0.0	0.64444	6e-05	<u>0.65169</u>	0.0
fij	fij	fij	1.0	0.0	0.96825	0.00011	1.0	0.0	1.0	0.0	0.96825	0.00011	<u>0.976</u>	6e-05
fin	fin	fin	0.36311	0.02522	0.2344	0.02259	0.38769	0.02136	0.41311	0.01844	0.27434	0.02259	<u>0.33155</u>	0.0137
fon	fon	fon	0.94118	0.00046	0.40702	0.00939	0.94915	0.00032	0.97226	0.00021	0.41135	0.00939	<u>0.48333</u>	0.00677
fra	fra	fra	0.95238	0.00068	0.58252	0.00481	0.95935	0.00043	0.9661	0.0001	0.6383	0.00481	<u>0.68966</u>	0.00297
fur	fur	fur	0.944	0.00068	0.78146	0.00179	0.95935	0.00043	0.96721	0.00031	0.80822	0.00179	<u>0.92187</u>	0.0005
fuv	fuv	fuv	0.77912	0.00217	0.4793	0.01208	0.80833	0.00107	0.81197	0.00062	0.53528	0.01208	<u>0.66066</u>	0.00495
gaz	gaz	gaz	0.83221	0.00285	0.41892	0.00962	0.88235	0.0015	0.83761	0.00062	0.43357	0.00962	<u>0.49206</u>	0.00704
gla	gla	gla	0.94574	0.00023	0.9375	0.00011	0.95312	0.00011	0.96063	0.0	0.9375	0.00011	<u>0.95238</u>	0.0
gle	gle	gle	0.95	0.00091	0.90909	0.00078	0.96815	0.00054	0.96815	0.00052	0.98684	0.00078	0.99338	0.0
glg	glg	glg	0.98305	0.00011	0.65169	0.00341	0.98305	0.00011	0.98305	0.0001	0.76821	0.00341	<u>0.90625</u>	0.00061
grn	grn	grn	0.816	0.00023	0.28409	0.01286	0.82927	0.0	0.81967	0.0	0.36765	0.01286	<u>0.53191</u>	0.00363
guj	guj	guj	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	<u>1.0</u>	0.0
hat	hat	hat	0.90706	0.00285	0.68768	0.00598	0.9313	0.00193	0.95312	0.00124	0.69971	0.00598	<u>0.71856</u>	0.00506
hau	hau	hau	0.94488	0.0024	0.83256	0.00397	0.96	0.00161	0.97297	0.00103	0.87745	0.00397	<u>0.93229</u>	0.00138
heb	heb	heb	0.99145	0.00011	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	<u>1.0</u>	0.0
hin	hin	hin	0.62	0.00867	0.6359	0.00397	0.62312	0.00805	0.62944	0.00752	0.64583	0.00397	<u>0.64583</u>	0.00374
hrv	hrv	hrv	0.60302	0.00902	0.42636	0.008	0.62176	0.00784	0.69364	0.00546	0.51643	0.008	<u>0.58511</u>	0.00402
hun	hun	hun	0.82192	0.00297	0.22814	0.0227	0.84507	0.00236	0.89552	0.00144	0.3183	0.0227	<u>0.46332</u>	0.00765
hye	hye	hye	1.0	0.0	0.97778	0.0	1.0	0.0	1.0	0.0	0.97778	0.0	<u>0.97778</u>	0.0
ibo	ibo	ibo	0.98718	0.00023	0.50877	0.0052	0.99355	0.00011	1.0	0.0	0.52968	0.0052	<u>0.59184</u>	0.00336
ilo	ilo	ilo	0.91339	0.00126	0.7651	0.0019	0.928	0.00097	0.97479	0.00031	0.83824	0.0019	<u>0.93443</u>	0.00039
ind	ind	ind	0.72483	0.00411	0.397	0.00867	0.76056	0.00311	0.78261	0.00258	0.53807	0.00867	<u>0.69799</u>	0.00209
isl	isl	isl	0.9916	0.00011	0.76129	0.00207	0.9916	0.00011	0.9916	0.0001	0.80272	0.00207	<u>0.80272</u>	0.0016
ita	ita	ita	0.7947	0.00342	0.44195	0.00822	0.83916	0.00236	0.86957	0.00175	0.52444	0.00822	<u>0.6178</u>	0.00391
jav	jav	jav	0.97581	0.00046	0.36646	0.00783	0.97581	0.00043	0.97561	0.00031	0.41696	0.00783	<u>0.47012</u>	0.0038
jpn	jpn	jpn	0.72195	0.01301	0.73	0.00593	0.7861	0.00848	0.79245	0.00783	0.82486	0.00593	0.85373	0.00242
kal	kal	kal	0.98305	0.0	0.76	0.00185	0.98305	0.0	0.98305	0.0	0.83824	0.00185	<u>0.94215</u>	0.00022
kan	kan	kan	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	<u>1.0</u>	0.0
kat	kat	kat	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	<u>1.0</u>	0.0
kaz	kaz	kaz	0.96721	0.00034	0.42182	0.00878	0.97521	0.00021	0.96667	0.00021	0.			

		with confidence threshold θ												
iso639-3	UDHR Code(s)	NLLB Code(s)	GlottLID-M		NLLB		GlottLID-M $\theta=3$		GlottLID-M $\theta=5$		NLLB $\theta=3$		NLLB $\theta=5$	
			F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow	F1 \uparrow	FPR \downarrow
lij	lij	lij	0.49785	0.01324	0.56701	0.00447	0.53953	0.01052	0.64804	0.00639	0.57592	0.00447	0.67485	0.0027
lin	lin	lin	0.99145	0.00023	0.94561	0.00056	1.0	0.0	1.0	0.0	0.96996	0.00056	0.98261	6e-05
lit	lit	lit	0.9375	0.00091	0.68208	0.00302	0.96774	0.00043	0.98361	0.00021	0.74684	0.00302	0.90076	0.00066
ltz	ltz	ltz	0.98305	0.0	0.60733	0.04008	0.98305	0.0	0.98305	0.0	0.63388	0.04008	0.67836	0.00292
lua	lua	lua	0.71186	0.00183	0.61017	0.00352	0.75	0.00107	0.78846	0.00031	0.63158	0.00352	0.69231	0.00231
lug	lug	lug	0.9589	0.00068	0.37398	0.01286	0.97222	0.00043	0.98592	0.00021	0.39205	0.01286	0.42724	0.01013
lus	lus	lus	0.93548	0.00091	0.33238	0.01303	0.95868	0.00054	0.97479	0.00031	0.33623	0.01303	0.34421	0.01216
lvs	lvs	lvs	0.94118	0.00171	0.95582	0.00056	0.92623	0.00118	0.90213	0.00093	0.97143	0.00056	0.98347	0.00017
mag	mag	mag	0.75385	0.00046	0.61635	0.00185	0.76562	0.00021	0.76562	0.00021	0.62821	0.00185	0.66216	0.00121
mai	mai	mai	0.83099	0.0	0.80537	0.00034	0.83099	0.0	0.83099	0.0	0.80537	0.00034	0.81081	0.00028
mal	mal	mal	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.975	0.0
mar	mar	mar	0.99174	0.00011	0.91603	0.00062	0.99174	0.00011	0.99174	0.0001	1.0	0.00062	1.0	0.0
min	min	min	0.88235	0.00171	0.22857	6e-05	0.91603	0.00107	0.92187	0.00082	0.23188	6e-05	0.20588	0.0
mkd	mkd	mkd	0.99174	0.0	0.99174	0.0	0.99174	0.0	0.99174	0.0	0.99174	0.0	0.99174	0.0
mlt	mlt	mlt	0.77419	0.00399	0.78146	0.00179	0.78947	0.00343	0.82759	0.00258	0.83099	0.00179	0.88722	0.00077
mos	mos	mos	0.97015	0.00046	0.75581	0.00235	0.98485	0.00021	0.99237	0.0001	0.78313	0.00235	0.81761	0.0016
nri	nri	nri	0.8227	0.00023	0.35913	0.01029	0.82857	0.00011	0.82857	0.0001	0.37061	0.01029	0.40138	0.00825
mya	mya	mya	0.66292	0.00673	0.67416	0.00324	0.66292	0.00633	0.67045	0.00587	0.68182	0.00324	0.7362	0.00237
nav	nav	nav	0.9916	0.00011	0.57282	0.00492	1.0	0.0	1.0	0.0	0.58706	0.00492	0.65556	0.00341
nld	nld	nld	0.70238	0.00571	0.59184	0.00442	0.71084	0.00515	0.71515	0.00484	0.65909	0.00442	0.6988	0.0027
nno	nno	nno	0.95868	0.00034	0.8855	0.00073	0.96667	0.00021	0.9661	0.0001	0.95082	0.00073	0.97479	6e-05
nob	nob	nob	0.98462	0.00023	0.96183	0.00022	0.99225	0.00011	0.98438	0.0001	0.98438	0.00022	0.98438	6e-05
npi	npi	npi	0.98214	0.0	0.88189	0.00078	0.575	0.0	0.32353	0.0	0.96552	0.00078	0.97391	0.00011
nso	nso	nso	0.86957	0.00205	0.86131	0.00101	0.87591	0.00182	0.88235	0.00165	0.86765	0.00101	0.91473	0.00055
nya	nya	nya	0.96414	0.00103	0.79333	0.00336	0.97581	0.00064	0.99588	0.0001	0.83509	0.00336	0.91892	0.00105
oci	oci	oci	0.41101	0.0	0.41688	0.0104	0.40516	0.0	0.38131	0.0	0.45698	0.0104	0.4357	0.00462
oss	oss	oss	0.50273	0.00696	0.71875	0.00034	0.50549	0.00644	0.50829	0.00608	0.74797	0.00034	0.7541	0.0
pan	pan	pan	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
pap	pap	pap	0.79195	0.00354	0.65537	0.00336	0.83099	0.00258	0.86765	0.00185	0.7205	0.00336	0.8227	0.00132
pcm	pcm	pcm	0.71739	0.0	0.84112	0.00017	0.71739	0.0	0.71739	0.0	0.84906	0.00017	0.84906	0.00011
pes	pes	pes	0.65922	0.00696	0.64407	0.00341	0.63855	0.0058	0.54135	0.00392	0.65143	0.00341	0.65143	0.00325
plt	plt	plt	0.98182	0.0	0.88525	0.00667	0.98182	0.0	0.98182	0.0	0.90756	0.00667	0.93913	0.00028
pol	pol	pol	0.74074	0.00479	0.41404	0.00928	0.76923	0.00386	0.81633	0.00278	0.4856	0.00928	0.60513	0.00418
por	por	por	0.86331	0.00434	0.73171	0.00492	0.87273	0.00376	0.89219	0.00299	0.81081	0.00492	0.84806	0.00237
prs	prs	prs	0.0	0.00274	0.08824	0.0022	0.0	0.00258	0.0	0.00247	0.08824	0.0022	0.80955	0.00017
quy	quy	quy	0.70115	0.00593	0.09147	0.06543	0.82993	0.00268	0.88406	0.00165	0.09992	0.06543	0.11018	0.05233
roh	roh	roh	0.99268	0.0	0.97515	0.00112	0.99145	0.0	0.98775	0.0	0.98095	0.00112	0.992	0.00044
ron	ron	ron	0.80992	0.00514	0.81667	0.0024	0.80833	0.00472	0.83006	0.00392	0.83051	0.0024	0.85065	0.00171
run	run	run	0.88235	0.00183	0.71951	0.00252	0.88889	0.00161	0.90909	0.00124	0.75159	0.00252	0.81944	0.00138
rus	rus	rus	0.43321	0.01792	0.43321	0.00878	0.47431	0.01428	0.51064	0.01185	0.45455	0.00878	0.58824	0.00462
sag	sag	sag	0.81553	0.0	0.21176	0.00084	0.80392	0.0	0.79208	0.0	0.225	0.00084	0.23377	0.00039
san	san	san	0.66667	0.0	0.67521	0.00017	0.66667	0.0	0.66667	0.0	0.67249	0.00017	0.67249	0.0
shn	shn	shn	0.99145	0.0	1.0	0.0	0.99145	0.0	0.99145	0.0	1.0	0.0	1.0	0.0
sin	sin	sin	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
slk	slk	slk	0.87591	0.00194	0.85926	0.00095	0.9375	0.00086	0.94488	0.00072	0.89231	0.00095	0.93548	0.00033
slv	slv	slv	0.89552	0.00016	0.71006	0.00274	0.95238	0.00064	0.97561	0.00031	0.78947	0.00274	0.85714	0.0011
smo	smo	smo	1.0	0.0	0.68182	0.00296	1.0	0.0	1.0	0.0	0.70175	0.00296	0.76433	0.00187
sna	sna	sna	0.93846	0.00091	0.46964	0.00716	0.96063	0.00054	0.98387	0.00021	0.57711	0.00716	0.69461	0.00264
som	som	som	0.75817	0.00422	0.54286	0.00531	0.80556	0.00301	0.89231	0.00144	0.61957	0.00531	0.7451	0.00209
sot	sot	sot	0.98333	0.00011	0.69118	0.00162	0.9916	0.0	0.9916	0.0	0.72868	0.00162	0.78333	0.00072
spa	spa	spa	0.72321	0.00685	0.39709	0.01387	0.75701	0.00537	0.78	0.00402	0.43968	0.01387	0.51923	0.00814
srd	srd	srd	0.9916	0.0	0.86567	0.00089	0.9916	0.0	0.9916	0.0	0.95082	0.00089	0.97479	6e-05
srp	srp	srp	0.5124	0.00685	0.48739	0.00336	0.4958	0.00633	0.48945	0.00608	0.48945	0.00336	0.49153	0.00319
ssw	ssw	ssw	0.94891	0.00068	0.80272	0.00123	0.97015	0.00032	0.99237	0.0	0.86131	0.00123	0.90769	0.00028
sun	sun	sun	0.9697	0.00034	0.75294	0.00229	0.9771	0.00021	0.9771	0.00021	0.84211	0.00229	0.9078	0.00066
swe	swe	swe	0.86301	0.00228	0.81579	0.00151	0.93333	0.00097	1.0	0.0	0.95385	0.00151	0.98413	6e-05
swh	swh	swh	0.84956	0.00046	0.24742	0.02036	0.84685	0.00032	0.78	0.0	0.29268	0.02036	0.35821	0.01178
tah	tah	tah	0.91892	0.00011	0.89922	0.00067	0.91892	0.00011	0.92727	0.0	0.92063	0.00067	0.98305	6e-05
tam	tam	tam	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tat	tat	tat	0.65556	0.00696	0.46457	0.00755	0.68208	0.0058	0.69822	0.00515	0.46825	0.00755	0.48163	0.00693
tel	tel	tel	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tgk	tgk	tgk	0.67429	0.00651	0.47581	0.00727	0.92913	0.00097	0.95082	0.00052	0.50213	0.00727	0.59296	0.00446
tgl	tgl	tgl	0.9403	0.0008	0.5368	0.00587	0.95455	0.00054	0.97674	0.00021	0.54148	0.00587	0.56364	0.00517
tha	tha	tha	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tir	tir	tir	1.0	0.0	0.97561	0.00017	1.0	0.0	1.0	0.0	0.99174	0.00017	1.0	0.0
ton	ton	ton	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
tpi	tpi	tpi	0.98361	0.00011	0.91339	0.00045	0.98361	0.00011	0.98361	0.0001	0.94309	0.00045	0.95868	0.00011
tsn	tsn	tsn	0.98361	0.00023	0.79452	0.00157	0.99174	0.00011	0.99174	0.0001	0.85926	0.00157	0.89922	0.00061
tso	tso	tso	0.94158	0.0016	0.64073	0.00878	0.94158	0.0015	0.95139	0.00113	0.66986	0.00878	0.70886	0.00633
tuk	tuk	tuk	0.94821	0.00148	0.65574	0.00022	0.96748	0.00086	0.98347	0.00041	0.65574	0.00022	0.65574	0.00022
tur	tur	tur	0.4918	0.01415	0.32967	0.01365	0.50209	0.01277	0.51502	0.01164	0.37037	0.01365	0.39604	0.01007
tzm	tzm	tzm	0.01754	0.00593	0.01653	0.0033	0.01754	0.00558	0.0177	0.00525	0.01653	0.0033	0.01653	0.00325
uig	uig	uig	0.90295	0.00114	0.66667	0.0	0.93333	0.0	0.89908	0.0	0.66667	0.0	0.66667	0.0
ukr	ukr	ukr	0.98361	0.00023	0.91339	0.0005	0.98361	0.00021	0.99174	0.0001	0.94309	0.0005	0.97479	6e-05