1. Introduction

A linguistic area is "a geographical region in which neighboring languages belonging to different language families show a significant set of structural properties in common, where the commonalities in structure are due to historical contact between speakers of the languages, and where the shared structural properties are not found in languages immediately outside the area (ideally where these include languages belonging to the same families as those spoken inside the area)" (Enfield 2005:190). That is, a linguistic area is defined by a group of variables (henceforth we use this term rather than features, properties, etc.) each of which constitutes an isogloss demarcating the area. Some linguists seek variables that form an isogloss bundle (e.g. Campbell et al. 1986, Joseph 1983, 2001); others do not (e.g. Emeneau 1956, Masica 1976), but nonetheless implicitly assume that some core part of the area should ideally emerge as located inside of all the isoglosses. Some works seek isopleths rather than isoglosses (van der Auwera 1998) and rank languages for the number of areal features they share. All of these approaches assume what we will call categoriality in the distribution of the defining variables: some value of a variable is present inside the area and absent outside of it (that is, in the neighboring languages outside of it).

Variable-defined areas present various problems. First, there are no criteria for deciding which are the diagnostic variables. This problem has an empirical side: the linguist needs to determine which variables are more and less frequent worldwide, which ones are most and least likely to diffuse, to be inherited; etc. It also has a statistical side. Suppose the linguist sorts through 200 variables and finds five that appear to be area-defining. Is this a significant result, or could one expect to find five out of 200 shared variables for any random set of languages and any random set of variables? The isogloss-bundled areal features standardly accepted for the Balkan and Mesoamerican language areas are selected from the entirety of the sound system, inventory of morphological forms, and basic syntactic inventory, a total set of elements that must number at least 200 and appears to be open-ended in practice. Half a dozen out of 200, or even 100, surveyed variables could easily cooccur in some set of languages by chance if they were at all frequent;
only if they were quite rare would it be unexpected for the set of languages to all show the entire half dozen variables. Our impression is that the classic Balkan features (to be listed below) include a few variables of sufficiently low frequency to be of diagnostic value, while the Mesoamerican ones include some that occur in one-quarter or more of the world's languages (head-marked nominal possession, non-verb-final basic word order), and one could expect five such to turn up in a survey of 200 or even 100 languages. This issue has not had the discussion it deserves in the areal literature.

Second, a language may be a recent immigrant to an area and its speakers wholly involved in areal behavior such as bilingualism and code switching, yet the areal variables have not yet affected that language; does the linguist then draw a discontinuous isogloss quarantining the new language, disregard that language, or lower the standards for density of attestation of the criterial variables in the area? An example is Turkish spoken in Bulgaria, a core part of the Balkan linguistic area, by speakers bilingual in Bulgarian and/or Romani, both core Balkan languages. Balkanists have traditionally emphasized categorical variables found in all and only Balkan languages, with continuous isoglosses defining a coherent geographical area, and Bulgarian Turkish presents obstacles to the approach.

Third, the variables that can be identified as defining an area may be a motley set that raises few fruitful typological questions and does not fully capture the linguistic spirit of the area. An example of this is the classic Balkanisms (Joseph 1983:1, 2001:21): (i) postposed definite article, (ii) variant preposed future tense marker derived from a verb of volition, (iii) clitic doubling for objects, (iv) noun case mergers (especially displacement of genitive by dative; in the extreme situation, complete or near-complete loss of noun cases); (v) mid central vowel, (vi) lack of infinitive (finite subordinate clauses where most European languages use infinitives). It is true that identifying categorical Balkanisms is difficult because, except for Turkish, the Balkan languages are all related (as Indo-European) and much of what they have in common is inherited and shared with non-Balkan sisters. That said, the fact remains that the classic Balkanisms do not do a very complete job of defining the shared grammar that makes for the notable intertranslatability of Balkan languages.

Fourth, variables exhibiting the requisite isoglossic behavior may have to be defined as an abstraction which is in itself unlikely to be able to diffuse: an example is non-verb-final word order, a Mesoamerican areal variable identified by Campbell, Kaufman, and Smith-Stark (1986).

All in all, the variable-defined approach is unlikely to be able to define large, old, or inactive areas or areas with significant linguistic immigration very satisfactorily. This is because such areas are most likely to have diffuse boundaries, to

---

1 A full statistical assessment will need to look at the worldwide frequency of the variable, the number of languages in the area, and the number of languages outside of but adjacent to the area (an area-defining feature cannot occur in any of these neighbors, though it can occur elsewhere in the world), and determine the probability of finding, say, five such variables given up to 200 attempts (or, perhaps more accurately, an open-ended number of attempts).
have internal nonconformities, to be typologically embedded in larger units, and to have confounding local divergence from areal norms.

Our approach turns the usual procedure on its head and defines variables from areas rather than vice versa. We define an area based on a theory of population and language spread and on information from other disciplines; hypothesize that it is a linguistic area; and test the hypothesis by seeking statistically non-accidental signals. We call this approach Predictive Areality Theory (PAT).

2. Predictive Areality Theory
Each typological variable has its own history of and potential for change and spread, and therefore has its own distinct distribution over the world’s languages. What underlies the impression of areality is that some such distributions overlap in a non-accidental way. If they overlap non-accidentally, one plausible explanation is shared history, by which we mean (any kind of) contact-induced change and/or shared inheritance (whether reconstructed and known or unreconstructible and unknowable). Such an explanation is a PAT holding for the specific regional overlap of the observed distributions. For a PAT to work, it must be grounded in what we know about population history from archaeology, genetics, ecology, geography, economics, demography, etc. Under this approach, then, areality is not a property of languages (e.g. ‘in the Balkan Area’ vs. ‘not in the Balkan Area’) but only a property of variables and sets of variables. In other words, areality is not, as under classical approaches, a typological observation. On the contrary, it is a theoretical predictor variable predicting observable typological distributions. The more the theory’s predictions are statistically supported in such a series of predicted variables, the more robust the theory is.

Regional overlap can be explained by a PAT only if we can demonstrate that the overlap does not result from (a) universal preferences (e.g. VP ~ PP order, or noun incorporation and head marking), (b) reconstructible shared genealogy, or (c) chance. We can use regular statistical inferencing to determine the probability of (c), but we need to control for (a) and (b). We control for (a) and (b) using standard typological methods: for (a) by rejecting typological variables as independent areal signals if they are known to be associated universally; for (b), i.e. for known genealogical relatedness, by constructing genealogically-balanced samples instead of random samples. The consequence of this sampling decision is that we cannot apply standard sampling theory and need to rely on randomization-based statistical methods. (See (Janssen et al. 2006) for further discussion.)

3. The Pacific Rim as a Linguistic Area
In the 15 years since the first maps of numeral classifiers, head marking, and n - m personal pronouns were displayed to show a striking coast-hugging distribution all around the Pacific Rim (PR), a number of additional otherwise infrequent variables have been shown to have notably high concentrations in the Pacific-facing parts of the world. Yet the distributions of the variables that mark this putative area are manifestly not categorical or congruent. The area spans several
continents and lacks the compactness and centeredness of well-known smaller areas. Therefore, instead of attempting to trace area-defining isoglosses, we first define the area geographically and then ask whether any variables are significantly more (or less) frequent in the area than outside of it, and whether there are enough such to legitimately define an area. The rationale for grouping the entire Pacific Rim together as a single area includes human genetic and archaeological data indicating that the entire region was initially settled by migrations from ancient mainland Southeast Asia, continued to receive new colonizations from there up to and including the Austronesian expansion, and functioned as a contact and migration zone the whole time (Nichols 1997a, b, 2000, 2002).

We define the PR area as follows: Pacific-facing coast up to the lower slope of the far side of the major coast range (e.g. Andes, Sierras and Cascades, eastern Himalayas) or up to a coastal scarp (as in northern Australia). The Pacific Rim area is the more strictly coastal part of a larger area which we call the Circum-Pacific (CP) area. This comprises all of the Americas, Oceania (including Australia and New Guinea), and the mainland Asian Pacific Rim as just defined. That is, the CP area is the entire region anciently settled from coastal Southeast Asia and including the coastal Asian migration route. However, we exclude Southeast Asia (which we define as mainland Southeast Asia plus island Southeast Asia up to the Wallace line, i.e. including western Indonesia and the Philippines) from the CP area because it has considerably stronger historical and prehistorical ties to mainland Asia (Matisoff 1991, Enfield 2005) than to the other regions around the Pacific. We therefore expect Southeast Asia to pattern more often with Eurasia than with the CP. Drawing the boundary at the Wallace Line may appear arbitrary, but this is a natural breakpoint in our samples. Map 1 shows the definition of the CP area on a genealogically-balanced sample of languages.²

² The underlying table with genealogy and geography coding is available on our project website: http://www.spw.uzh.ch/autotyp/. All other codings discussed below are also deposited there.
et al. 1986, Joseph 2001; survey: Enfield 2005:190) assume near-100% consistency in variables across an area, but in reality within-area variance in otherwise good areal features is common. A clear example of such a variable is multiple possessive classes (more than one "inalienable" class of nouns; Nichols and Bickel 2005, POSSCL in the Appendix below). In fact, in the PR and CP areas, variance is expected and likely to have been an ancient and stable characteristic because the territory is almost entirely residual zone in the terms of Nichols 1992, and because the expansion of languages bearing PR features involved movement into already inhabited lands so that languages with PR features did not displace others but intermingled with them. Given this, we maintain that our areality prediction is confirmed by any statistically significant difference in frequencies inside vs. outside the area – regardless of variance inside the area.  

(b) Leakage. In certain places, PR variables "escape" into the nearby (and not-so-nearby) interior: syntactic noun incorporation (Houser and Toosarvandani 2006) in North America; ergativity [COMALN5], inclusive-exclusive pronouns (ExInDist, Bickel and Nichols 2005b) and reduplicated plurals in Australia; many variables in South America (where "PR" is a misnomer as there is almost never a discernible coastal cluster of PR variables). Under a PAT approach, this is expected because it has clear historical motivations. Wherever a spread zone abuts the PR zone (North America, Australia, inner Eurasia), "escaped" features are likely to spread far. Thus, for example, the spread of domestication from Mesoamerica impelled PR features eastward via the Caribbean coast. In our statistical survey below, we use the larger CP area as a predictor in order to capture at least the leakages on the American side.

(c) Greater variance and general diffuseness of PR variables in Oceania. A number of PR variables form notably denser clusters in the Americas than in Oceania, raising questions about the unity of the area and its specific history. Examples include high inflectional synthesis of the verb (Bickel and Nichols 2005a, SYN) and n-m personal pronouns (Nichols and Peterson 1996, 2005; NICNMP2). Rather than a problem, under a PAT approach this is again an expected phenomenon: Oceania has been inhabited longer than the Americas and domestication occurred earlier there than in the Americas (Denham et al. 2003), so the land was already linguistically and demographically saturated when the PR expansion began. In saturated conditions, new linguistic features had less impact and took root less readily.

(d) A troubling historical question: How could PR variables persist so long in an area when there are many cases of their loss within historically reconstructed language families that are younger than the PR? Rather than a shortcoming we see this as a defining property of diagnostic areal features: they are more persistent in areas than in families. This must be because their retention can be favored by

Still, it might be useful to distinguish these general kinds of areal signals from signals that show strong within-area homogeneity (as measured for example by chi-square deviations from expected distributions within the area).
areal pressure, and because in linguistic areas they are prone to be transmitted not only by inheritance but also by substratal retention and diffusion.

4. Survey
We tested our predictions about CP areality against the dataset available in the World Atlas of Linguistic Structures (WALS; Haspelmath et al. 2005), amended by our own richer datasets for the variables that we contributed ourselves to the Atlas. The WALS dataset is not (and is not meant to be) a genealogically balanced sample. Therefore we constructed an all-purpose sample for WALS, called ‘WALSG’, with one representative per genus (as that is defined in the Atlas). When there was a choice we opted for the language that is coded for the largest number of coded variables. For our own chapters, we used our standard genealogical sample in AUTOTYP, called ‘GEN’. WALSG contains 193 languages, GEN 316. Using GIS software, we coded each language in both samples as belonging or not to the CP area. We used the larger CP area rather than its PR subpart because of the issue of leakage discussed above.

On an all-purpose sample, variables end up with many missing values. Of all variables available in WALS (or our versions of them) we selected those that have at least 150 (i.e. about 75%) non-empty values. This yields 75 variables.

The values of a typological variable can generally be lumped or split in various ways. For example, the variable of case alignment in (Comrie 2005) distinguishes marked from unmarked nominative/accusative alignment, while for different purposes one could treat them as the same and put them in opposition to several other alignments. In technical terms, these are all different ontologies derived from a single variable. In universals research we generally know which ontology is of interest to the prediction (e.g. accusative vs. other non-neutral alignment for predictions about which alignment type is preferred in agreement as opposed to case systems), but in areal typology we cannot know a priori which ontology will show areal overlap in its distribution. Re-ontologizing, or recoding, is of course only possible for multinomial variables and not all possible recodes are linguistically meaningful. With these constraints in mind, we recoded 23 of the 75 variables, with the number of recoded variants of each variable ranging from 2 to 6 (mode = 2). This yielded a total set of 100 variables. Note that some recodes increase again the number of missing values, but now these are logically necessary and not sampling gaps: for example, a binary recode of subtypes of accusative marking will have missing values only in languages that do not have accusative case alignment, but this is a fact of life and not a sampling problem.

We then tested our areality prediction against the 100 variables. That is, we surveyed not a hand-picked number of variables and not an open-ended set, but all variables available in testably high frequencies in both databases under genealogical sampling. For each variable, we tested whether there was a statistically significant difference between its frequencies in the Circum-Pacific and the rest of the world (i.e. Africa and non-Pacific Eurasia). For binary typological variables we used a 2x2 (typological variable x CP) Fisher Exact Test; for multinomial and
scalar variables we ran randomization-based chi-square and one-way anova tests, respectively, as described in (Janssen et al. 2006). We report the results in the Appendix, ranked by p-values.

5. Results
When interpreting the results, we need to control for the fact that some variables might be universally correlated. We have not tested all possible universal correlations among the 100 variables, but the following word-order variables are well-known to correlate: DRYOBV0 ~ DRYGEN0 ~ DRYSOV0 ~ DRYSBV0 ~ DRY-ADP0 ~ DRYCOQ0 ~ DRYPQP01 ~ DRYPQP02 ~ VFIN ~ VFIN2 ~ VINIT ~ VINIT2; CORSEX01 ~ SIEGEN2 and SIEAPV2 ~ SIEVPA02 ~ POLYAGR are respectively the same or very similar variables coded by different researchers (see Appendix for what these labels stand for). What other correlations exist is an open question, one that needs extensive analysis. For now, we assume that 86 of the variables tested are distributionally independent of each other.

Running the same test on various recodings of the same variable increases the risk of familywise error of rejecting true null hypotheses. We controlled for this by applying Holm corrections to the p-values of each set of mutual recodings of a single variable (e.g., we corrected the p-values of all our 6 recodings of DRYSOV, Dryer’s (2005) S-O-V order variable).

At a conventional .05 rejection level, we find that about 40% of the 86 variables that we assume to be independent show significant frequency difference between the CP area and the rest of the world. About 30% do so at a .01 level.4

6. Conclusion
This has been an exercise in applying Predictive Areal Theory to a deep, old, and very large area which a priori presents many problems for areal analysis. We defined the PR and CP areas geographically, basing the definition and the geographical extent on what is known about human migrations and the settlement of the Pacific and the New World, then assembled a list of all variables which had enough data in an general-purpose database (WALS) and tested whether frequencies of variables in the area are significantly different from those outside the area. The outcome was that (depending on one’s significance criterion) 30-40% of the variables yielded significance, and we regard each of these as a likely areal feature. This success rate is high enough to convince us that we have detected multiple symptoms of genuine areality. Note that the datasets were controlled for genealogical bias by an all-purpose sample, and this often meant that the actual dataset had to be shrunk, reducing the power of the statistical tests. It is possible that a sampling procedure that leads to larger samples would reveal more significant associations.

Our understanding is that the PR formed as coastally adapted people, and their

4 Space limits make it impossible to include maps of the variables, but a sense of their actual distribution can be gained from the maps in WALS.
languages and cultures, spread out of Southeast Asia beginning late in the last glaciation and continuing into recent centuries with the Austronesian spread and the Chukchi spread to the Bering Strait. They spread coastally, as is shown by the striking coastal distributions of variables such as V-S order and multiple possessive classes. We tested for CP rather than more strictly for PR areality because leakage is such a pervasive problem as to obscure the linguistic boundary between the two (though not the geographical boundary, which we defined in advance).

All theories of areality take account of cultural, historical, and ecological factors as well as linguistic structure, but PAT differs in its crucial respects – defining areas geographically, no assumption of categoriality in variable distributions, testing all available variables for areality – because it was developed for work on large, old areas for which categoriality and neat isoglosses cannot be expected. Much work remains to be done, including development of statistical tools to define the minimum success rate that can be judged non-chance and to disentangle the PR from the CP. Even without these tools, however, the CP area has emerged as a clear linguistic area established by many independent variables.  

References


Houser, Michael, and Maziar Toosarvandani. 2006. A Non-Syntactic Template for Syntactic Noun Incorporation. LSA Annual Meeting, Albuquerque.

---

5 We thank Sven Siegmund and Anja Gampe for their help with the recoding of the WALS data.
Oceania, the Pacific Rim, and Linguistic Areas


Balthasar Bickel and Johanna Nichols

Balthasar Bickel
Seminar für Allgemeine Sprachwissenschaft
Universität Zürich
Plattenstrasse 54
CH-8032 Zürich

balthasar.bickel@uzh.ch

Johanna Nichols
Department of Slavic Languages and Literatures, #2979
University of California
Berkeley, CA 94720-2979

johanna@berkeley.edu
## Oceania, the Pacific Rim, and Linguistic Areas

### Table

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Value</th>
<th>Recode</th>
<th>Values Corresponding to the CP area, Ranked by Corrected p-values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

*Note: The table continues on the next page.*
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balthasar Bickel</td>
<td>Double-Quoting object</td>
</tr>
<tr>
<td>Johanna Nichols</td>
<td>Morphotactic Importation</td>
</tr>
<tr>
<td></td>
<td>Subject-Argument Structure</td>
</tr>
<tr>
<td></td>
<td>Type of expression chain expression</td>
</tr>
<tr>
<td></td>
<td>Simple vs. complex core</td>
</tr>
<tr>
<td></td>
<td>Some Agreement Preceded</td>
</tr>
<tr>
<td></td>
<td>Precedence of nomination expressions</td>
</tr>
<tr>
<td></td>
<td>Agreement Agreement</td>
</tr>
<tr>
<td></td>
<td>Pronoun Agreement (ACC, etc.)</td>
</tr>
<tr>
<td></td>
<td>Prepositional Agreement</td>
</tr>
<tr>
<td></td>
<td>Complement of prepositional phrase</td>
</tr>
<tr>
<td></td>
<td>Coding of prepositional phrase</td>
</tr>
<tr>
<td></td>
<td>Scale</td>
</tr>
<tr>
<td></td>
<td>Standardized Person and number codes</td>
</tr>
<tr>
<td></td>
<td>Human-Computer System</td>
</tr>
<tr>
<td></td>
<td>Noun phrase</td>
</tr>
<tr>
<td></td>
<td>Verb phrase</td>
</tr>
<tr>
<td></td>
<td>Adverb phrase</td>
</tr>
<tr>
<td></td>
<td>Prepositional phrase</td>
</tr>
<tr>
<td></td>
<td>Descriptive phrase</td>
</tr>
<tr>
<td></td>
<td>Date of issuance</td>
</tr>
<tr>
<td></td>
<td>Type of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Adverb of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Prepositional phrase</td>
</tr>
<tr>
<td></td>
<td>Adjective phrase</td>
</tr>
<tr>
<td></td>
<td>Type of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Adverb of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Adverb of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Adverb of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Adverb of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Adverb of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Adverb of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Adverb of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td></td>
<td>Adverb of evidence</td>
</tr>
<tr>
<td></td>
<td>V-type of evidence</td>
</tr>
<tr>
<td>Code</td>
<td>Meaning</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>00000 1</td>
<td>Digraph vs. double negation</td>
</tr>
<tr>
<td>00000 1</td>
<td>Type of front rounded vowel</td>
</tr>
<tr>
<td>01063 0</td>
<td>Pronoun and number cooccurrence in pron.</td>
</tr>
<tr>
<td>00000 1</td>
<td>Pronoun-number vs. position sense</td>
</tr>
<tr>
<td>00000 1</td>
<td>Subject pronoun (post or not)</td>
</tr>
<tr>
<td>00000 1</td>
<td>Case agreement</td>
</tr>
<tr>
<td>00000 1</td>
<td>Verbal mood (tense or not)</td>
</tr>
<tr>
<td>00000 1</td>
<td>Interrogative - declarative distinction</td>
</tr>
<tr>
<td>00000 1</td>
<td>Tense of predication or subject pron.</td>
</tr>
<tr>
<td>01167 7</td>
<td>Agreement of subject vs. indirect pron.</td>
</tr>
<tr>
<td>02052 1</td>
<td>Tense of Indefinite - indirect pron.</td>
</tr>
<tr>
<td>03074 7</td>
<td>Adjective vs. Adverb</td>
</tr>
<tr>
<td>09096 4</td>
<td>1st - 2nd</td>
</tr>
<tr>
<td>09096 4</td>
<td>3rd</td>
</tr>
<tr>
<td>09096 4</td>
<td>4th</td>
</tr>
<tr>
<td>09096 4</td>
<td>5th</td>
</tr>
<tr>
<td>09096 4</td>
<td>6th</td>
</tr>
<tr>
<td>09096 4</td>
<td>7th</td>
</tr>
<tr>
<td>09096 4</td>
<td>8th</td>
</tr>
<tr>
<td>09096 4</td>
<td>9th</td>
</tr>
<tr>
<td>09096 4</td>
<td>10th</td>
</tr>
<tr>
<td>09096 4</td>
<td>11th</td>
</tr>
<tr>
<td>09096 4</td>
<td>12th</td>
</tr>
<tr>
<td>09096 4</td>
<td>13th</td>
</tr>
<tr>
<td>09096 4</td>
<td>14th</td>
</tr>
<tr>
<td>09096 4</td>
<td>15th</td>
</tr>
<tr>
<td>09096 4</td>
<td>16th</td>
</tr>
<tr>
<td>09096 4</td>
<td>17th</td>
</tr>
<tr>
<td>09096 4</td>
<td>18th</td>
</tr>
<tr>
<td>09096 4</td>
<td>19th</td>
</tr>
<tr>
<td>09096 4</td>
<td>20th</td>
</tr>
<tr>
<td>09096 4</td>
<td>21st</td>
</tr>
<tr>
<td>09096 4</td>
<td>22nd</td>
</tr>
<tr>
<td>09096 4</td>
<td>23rd</td>
</tr>
<tr>
<td>09096 4</td>
<td>24th</td>
</tr>
<tr>
<td>09096 4</td>
<td>25th</td>
</tr>
<tr>
<td>09096 4</td>
<td>26th</td>
</tr>
<tr>
<td>09096 4</td>
<td>27th</td>
</tr>
<tr>
<td>09096 4</td>
<td>28th</td>
</tr>
<tr>
<td>09096 4</td>
<td>29th</td>
</tr>
<tr>
<td>09096 4</td>
<td>30th</td>
</tr>
<tr>
<td>09096 4</td>
<td>31st</td>
</tr>
<tr>
<td>09096 4</td>
<td>32nd</td>
</tr>
<tr>
<td>09096 4</td>
<td>33rd</td>
</tr>
<tr>
<td>09096 4</td>
<td>34th</td>
</tr>
<tr>
<td>09096 4</td>
<td>35th</td>
</tr>
<tr>
<td>09096 4</td>
<td>36th</td>
</tr>
<tr>
<td>09096 4</td>
<td>37th</td>
</tr>
<tr>
<td>09096 4</td>
<td>38th</td>
</tr>
<tr>
<td>09096 4</td>
<td>39th</td>
</tr>
<tr>
<td>09096 4</td>
<td>40th</td>
</tr>
<tr>
<td>09096 4</td>
<td>41st</td>
</tr>
<tr>
<td>09096 4</td>
<td>42nd</td>
</tr>
<tr>
<td>09096 4</td>
<td>43rd</td>
</tr>
<tr>
<td>09096 4</td>
<td>44th</td>
</tr>
<tr>
<td>09096 4</td>
<td>45th</td>
</tr>
<tr>
<td>09096 4</td>
<td>46th</td>
</tr>
<tr>
<td>09096 4</td>
<td>47th</td>
</tr>
<tr>
<td>09096 4</td>
<td>48th</td>
</tr>
<tr>
<td>09096 4</td>
<td>49th</td>
</tr>
<tr>
<td>09096 4</td>
<td>50th</td>
</tr>
<tr>
<td>09096 4</td>
<td>51st</td>
</tr>
<tr>
<td>09096 4</td>
<td>52nd</td>
</tr>
<tr>
<td>09096 4</td>
<td>53rd</td>
</tr>
<tr>
<td>09096 4</td>
<td>54th</td>
</tr>
<tr>
<td>09096 4</td>
<td>55th</td>
</tr>
<tr>
<td>09096 4</td>
<td>56th</td>
</tr>
<tr>
<td>09096 4</td>
<td>57th</td>
</tr>
<tr>
<td>09096 4</td>
<td>58th</td>
</tr>
<tr>
<td>09096 4</td>
<td>59th</td>
</tr>
<tr>
<td>09096 4</td>
<td>60th</td>
</tr>
<tr>
<td>09096 4</td>
<td>61st</td>
</tr>
<tr>
<td>09096 4</td>
<td>62nd</td>
</tr>
<tr>
<td>09096 4</td>
<td>63rd</td>
</tr>
<tr>
<td>09096 4</td>
<td>64th</td>
</tr>
<tr>
<td>09096 4</td>
<td>65th</td>
</tr>
<tr>
<td>09096 4</td>
<td>66th</td>
</tr>
<tr>
<td>09096 4</td>
<td>67th</td>
</tr>
<tr>
<td>09096 4</td>
<td>68th</td>
</tr>
<tr>
<td>09096 4</td>
<td>69th</td>
</tr>
<tr>
<td>09096 4</td>
<td>70th</td>
</tr>
<tr>
<td>09096 4</td>
<td>71st</td>
</tr>
<tr>
<td>09096 4</td>
<td>72nd</td>
</tr>
<tr>
<td>09096 4</td>
<td>73rd</td>
</tr>
<tr>
<td>09096 4</td>
<td>74th</td>
</tr>
<tr>
<td>09096 4</td>
<td>75th</td>
</tr>
<tr>
<td>09096 4</td>
<td>76th</td>
</tr>
<tr>
<td>09096 4</td>
<td>77th</td>
</tr>
<tr>
<td>09096 4</td>
<td>78th</td>
</tr>
<tr>
<td>09096 4</td>
<td>79th</td>
</tr>
<tr>
<td>09096 4</td>
<td>80th</td>
</tr>
<tr>
<td>09096 4</td>
<td>81st</td>
</tr>
<tr>
<td>09096 4</td>
<td>82nd</td>
</tr>
<tr>
<td>09096 4</td>
<td>83rd</td>
</tr>
<tr>
<td>09096 4</td>
<td>84th</td>
</tr>
<tr>
<td>09096 4</td>
<td>85th</td>
</tr>
<tr>
<td>09096 4</td>
<td>86th</td>
</tr>
<tr>
<td>09096 4</td>
<td>87th</td>
</tr>
<tr>
<td>09096 4</td>
<td>88th</td>
</tr>
<tr>
<td>09096 4</td>
<td>89th</td>
</tr>
<tr>
<td>09096 4</td>
<td>90th</td>
</tr>
<tr>
<td>09096 4</td>
<td>91st</td>
</tr>
<tr>
<td>09096 4</td>
<td>92nd</td>
</tr>
<tr>
<td>09096 4</td>
<td>93rd</td>
</tr>
<tr>
<td>09096 4</td>
<td>94th</td>
</tr>
<tr>
<td>09096 4</td>
<td>95th</td>
</tr>
<tr>
<td>09096 4</td>
<td>96th</td>
</tr>
<tr>
<td>09096 4</td>
<td>97th</td>
</tr>
<tr>
<td>09096 4</td>
<td>98th</td>
</tr>
<tr>
<td>09096 4</td>
<td>99th</td>
</tr>
<tr>
<td>09096 4</td>
<td>100th</td>
</tr>
</tbody>
</table>

Oceania, the Pacific Rim, and Linguistic Areas