INFLECTIONAL DEFECTIVENESS

Paradigmatic gaps ("missing" inflected forms) have traditionally been considered to be the random detritus of a language's history and marginal exceptions to the normal functioning of its inflectional system. Arguing that this is a misperception, *Inflectional Defectiveness* demonstrates that paradigmatic gaps are in fact normal and expected products of inflectional structure. Sims offers an accessible exploration of how and why inflectional defectiveness arises, why it persists, and how it is learned. The book presents a theory of morphology which is rooted in the implicative structure of the paradigm. This systematic exploration of the topic also addresses questions of inflection class organization, the morphology–syntax interface, the structure of the lexicon, and the nature of productivity. Presenting a novel synthesis of established research and new empirical data, this work is significant for researchers and graduate students in all fields of linguistics.

ANDREA D. SIMS is Associate Professor in the Department of Slavic and East European Languages and Cultures at The Ohio State University. Her research interests include theoretical morphology, the morphology–syntax interface, the organization of the lexicon, and the relationship between lexical processing and morphological structure.

CAMBRIDGE STUDIES IN LINGUISTICS

General Editors: P. AUSTIN, J. BRESNAN, B. COMRIE, S. CRAIN, W. DRESSLER, C. J. EWEN, R. LASS, D. LIGHTFOOT, K. RICE, I. ROBERTS, S. ROMAINE, N. V. SMITH

Inflectional Defectiveness

In this series

- 116 GILLIAN CATRIONA RAMCHAND: Verb meaning and the lexicon: a first phase syntax
- 117 PIETER MUYSKEN: Functional categories
- 118 JUAN URIAGEREKA: Syntactic anchors: on semantic structuring
- 119 D. ROBERT LADD: Intonational phonology (second edition)
- 120 LEONARD H. BABBY: The syntax of argument structure
- 121 B. ELAN DRESHER: The contrastive hierarchy in phonology
- 122 DAVID ADGER, DANIEL HARBOUR, and LAUREL J. WATKINS: Mirrors and microparameters: phrase structure beyond free word order
- 123 NIINA NING ZHANG: Coordination in syntax
- 124 NEIL SMITH: Acquiring phonology
- 125 NINA TOPINTZI: Onsets: suprasegmental and prosodic behaviour
- 126 CEDRIC BOECKX, NORBERT HORNSTEIN, and JAIRO NUNES: Control as movement
- 127 MICHAEL ISRAEL: The grammar of polarity: pragmatics, sensitivity, and the logic of scales
- 128 M. RITA MANZINI and LEONARDO M. SAVOIA: Grammatical categories: variation in romance languages
- 129 BARBARA CITKO: Symmetry in syntax: merge, move and labels
- 130 RACHEL WALKER: Vowel patterns in language
- 131 MARY DALRYMPLE and IRINA NIKOLAEVA: Objects and information structure
- 132 JERROLD M. SADOCK: The modular architecture of grammar
- 133 DUNSTAN BROWN and ANDREW HIPPISLEY: Network morphology: a defaults-based theory of word structure
- 134 BETTELOU LOS, CORRIEN BLOM, GEERT BOOIJ, MARION ELENBAAS, and ANS VAN KEMENADE: Morphosyntactic change: a comparative study of particles and prefixes
- 135 STEPHEN CRAIN: The emergence of meaning
- 136 HUBERT HAIDER: Symmetry breaking in syntax
- 137 JOSÉ A. CAMACHO: Null subjects
- 138 GREGORY STUMP and RAPHAEL A. FINKEL: Morphological typology: from word to paradigm
- 139 BRUCE TESAR: Output-driven phonology: theory and learning
- 140 ASIER ALCÁZAR and MARIO SALTARELLI: The syntax of imperatives
- 141 MISHA BECKER: The acquisition of syntactic structure: animacy and thematic alignment
- 142 MARTINA WILTSCHKO: The universal structure of categories: towards a formal typology
- 143 FAHAD RASHED AL-MUTAIRI: The minimalist program: the nature and plausibility of Chomsky's biolinguistics
- 144 CEDRIC BOECKX: Elementary syntactic structures: prospects of a feature-free syntax
- 145 PHOEVOS PANAGIOTIDIS: Categorial features: a generative theory of word class
- categories 146 MARK BAKER: Case: its principles and its parameters
- 147 WILLIAM BENNETT: The phonology of consonants: dissimilation, harmony and correspondence
- 148 ANDREA D. SIMS: Inflectional defectiveness

Earlier issues not listed are also available

INFLECTIONAL DEFECTIVENESS

ANDREA D. SIMS

The Ohio State University





University Printing House, Cambridge CB2 8BS, United Kingdom

Cambridge University Press is part of the University of Cambridge.

It furthers the University's mission by disseminating knowledge in the pursuit of education, learning and research at the highest international levels of excellence.

www.cambridge.org Information on this title: www.cambridge.org/9781107045842

© Andrea D. Sims 2015

This publication is in copyright. Subject to statutory exception and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press.

First published 2015

A catalogue record for this publication is available from the British Library

Library of Congress Cataloging in Publication Data Sims, Andrea D. Inflectional defectiveness / Andrea D. Sims. pages cm. – (Cambridge studies in linguistics) Includes bibliographical references and index. ISBN 978-1-107-04584-2 (hardback) 1. Paradigm (Linguistics) 2. Grammar, Comparative and general – Inflection. 3. Grammar, Comparative and general – Morphology. 4. Historical linguistics. I. Title. P128.P37856 2015 415'.95 – dc23 2015012667

ISBN 978-1-107-04584-2 Hardback

Cambridge University Press has no responsibility for the persistence or accuracy of URLs for external or third-party internet websites referred to in this publication, and does not guarantee that any content on such websites is, or will remain, accurate or appropriate.

> For my parents and for Jason

Contents

	List of figures	<i>page</i> xiii
	List of tables	xiv
	Preface	xvii
	List of abbreviations	XX
1	Introduction	1
1.1	The problem of missing word-forms	1
1.2	Random anomalies, epiphenomena, or (almost) normal
	morphological objects?	7
1.3	Words, paradigms, and the organization of the	lexicon 11
	1.3.1 The lexicon is not like a prison	12
	1.3.2 Words and paradigms in formal morphe	plogy 13
	1.3.3 Words and associative networks in lexic	cal representations
	and processing	16
	1.3.4 Convergences and almost-intersections	19
1.4	Structure and organization of the book	20
2	Defining inflectional defectiveness	22
2.1	Introduction	22
2.2	What it means for an inflected form to be "mis	sing" 22
2.3	A working definition of inflectional defectiven	
2.4	Drawing a line between defectiveness and othe	r phenomena 29
2.5	The definition of defectiveness and the morpho	logy–syntax interface 33
2.6	Defectiveness and periphrasis	38
	2.6.1 Motivating a distinction	38
	2.6.2 The distinction in theoretical terms	40
	2.6.3 The fuzzy boundary	42
2.7	Defectiveness and suppletion	44
2.8	Gradient defectiveness	44
	2.8.1 Gradient expectations	44
	2.8.2 Weak defectiveness	48
	2.8.3 Canonical and non-canonical defective	ness 52

x Contents

2.9	The (in)significance of (not so) isolated attestations	52
2.10	Conclusions	55
3	On the causes of inflectional defectiveness	57
3.1	Introduction	57
3.2	Defectiveness related to lack of semantic or pragmatic need	58
3.3	Defectiveness related to the morphology-phonology interface	59
3.4	Defectiveness related to morphological structure	63
3.5	Defectiveness related to morphosyntactic structure	69
3.6	Patterns of defectiveness with no discernible causes	73
3.7	Interim summary	74
3.8	Irreducible patterns of defectiveness and the inflectional system	75
3.9	On causation and explanation	78
4	Productivity, defectiveness, and syncretism	82
4.1	Introduction	82
4.2	Inflectional productivity	86
	4.2.1 Morphosyntactic productivity	87
	4.2.2 M-feature non-productivity	89
4.3	Syncretism and defectiveness in the context of m-feature	
	non-productivity	95
	4.3.1 Mohawk	95
	4.3.2 Martuthunira	98
	4.3.3 Interim summary	101
4.4	Defectiveness is orthogonal to productivity	101
4.5	Defectiveness and syncretism in formal interaction	103
	4.5.1 Sanskrit	104
	4.5.2 Icelandic	106
	4.5.3 Greek	112
	4.5.4 Mohawk	113
	4.5.5 Latvian	113
	4.5.6 Interim summary	118
4.6	Formal approaches to defectiveness	119
	4.6.1 Surface filters	119
	4.6.2 Rules of referral	123
	4.6.3 Paradigm linkage	127
4.7	What defectiveness and syncretism have in common	130
4.8	Conclusions	131
5	Principal parts, predictability, and paradigmatic gaps	133
5.1	Introduction	133
5.2	Inflectional complexity	134
	5.2.1 Enumerative complexity versus integrative complexity	135

CAMBRIDGE

Cambridge University Press
978-1-107-04584-2 - Inflectional Defectiveness
Andrea D. Sims
Frontmatter
Moreinformation

Contents	vi
Comenis	X1

	5.2.2 Inflection class complexity as a typological question	140
5.3	Overview of Greek nominal inflection	143
5.4	Genitive plural gaps	150
5.5	The implicative structure of Greek nouns	157
	5.5.1 Greek nouns and the Paradigm Cell Filling Problem	157
	5.5.2 A test of the conditional entropy of Greek nominal structure	161
	5.5.3 Inflectional complexity as paradigm cohesion	163
	5.5.4 A test of the (lack of) cohesion of Greek nominal paradigms	165
5.6	Paradigm cohesion and defectiveness	168
	5.6.1 Defective and non-defective classes	168
	5.6.2 Accounting for non-defectiveness	170
	5.6.3 A related pattern of defectiveness	172
5.7	Cross-classifying subsystems and the Low Entropy Conjecture	173
5.8	Conclusions	178
0.0		170
6	Irreducible gaps and the morphologization of	
	defectiveness	179
6.1	Introduction	179
6.2	Identifying covertly lexicalized gaps	180
6.3	Another look at Modern Greek nouns	182
6.4	Avoidance strategies and the question of ongoing motivation for	102
0.1	defectiveness	187
	6.4.1 Genitive-prepositional phrase variation in Greek	187
	6.4.2 An experiment	190
	6.4.3 Interim conclusions	195
6.5	Exploitable regularities, reanalysis, and actualization of change	196
6.6	Coexisting analyses	202
6.7	Conclusions	202
7	On learnability and the dynamic organization of	
	the lexicon	208
7.1	Introduction	208
7.2	Overview of the Russian first person singular gaps	209
	7.2.1 Morphophonological distribution	210
	7.2.2 The frequency distribution of Russian verbs	213
	7.2.3 Folk explanations and other false leads	216
7.3	Theories of learnability and the negative evidence "problem"	217
7.4	Inferring absence: a Bayesian model	220
	7.4.1 The sparse data problem and the minority pattern problem	221
	7.4.2 Unexpected absences: word-specific learning of gaps	224
	7.4.3 Expected absences: gaps as lexical gangs	227
	7.4.4 Implications for the negative evidence problem, sparse data	
	problem, and minority pattern problem	230

xii Contents

7.5	A computational test of the model	232
	7.5.1 Implementational parameters	232
	7.5.2 Systemic equilibrium	235
	7.5.3 The "lifetime" of gaps	238
	7.5.4 The frequency distribution of defective verbs	241
	7.5.5 Interim conclusions	244
7.6	Implications of the learning model for irreducible gaps	244
	7.6.1 Irreducible gaps are like other morphologized patterns	244
	7.6.2 Lexicalized does not imply randomly distributed	246
	7.6.3 Defectiveness as a productive pattern	246
7.7	Conclusions	248
8	The implicative structure of the paradigm and other	
	concluding thoughts	249
8.1	The story so far	249
8.2	Inflectional defectiveness is normal: gaps as allomorphs	253
8.3	The implicative structure of the inflectional paradigm	257
	8.3.1 The paradigm as a theoretical object?	257
	8.3.2 The fragmentary nature of the inflectional paradigm	259
	8.3.3 Implicative structure and the emergent paradigm	262
8.4	Final thoughts	269
	Appendix: Information-theoretic and other	
	probability-based measures of inflectional structure	272
A.1	Introduction	272
A.2	Probability distributions	272
A.3	Entropy	275
A.4	Conditional entropy	278
A.5	Mutual information	280
A.6	Bayesian inference	281
	References	284
	Index	302

Figures

5.1	Distribution of Greek nouns with genitive plural gaps,	
	according to lexeme frequency	page 155
5.2	Pairwise conditional probabilities of Greek noun forms	159
5.3	Pairwise conditional entropy of Greek nominal structure	160
5.4	A bootstrap analysis of the average conditional entropy of	
	Greek nominal structure	162
5.5	Pairwise mutual information of Greek nominal structure	165
5.6	A bootstrap analysis of the cohesion of Greek nominal	
	structure	167
5.7	Conditional probability distributions of genitive plural form	ns 168
5.8	A schematic default inheritance hierarchy for Greek nomin	al
	stress	171
5.9	Pairwise conditional entropy of the individual	
	subcomponents of the Greek nominal system	175
6.1	Density plot of participants' confidence in their genitive	
	plural productions	185
6.2	Effects of interparticipant agreement on participants'	
	confidence in their productions	186
6.3	Frequency and stress predictability as factors in genitive	
	plural preference	194
7.1	Relative frequency of person-number combinations in	
	Russian verbs	215
7.2	Number of verbs with 1sG gaps in each generational cycle	235
7.3	Number of verbs with 1sG gaps in each generational cycle,	
	according to stem type ($\beta = 32$)	237
7.4	"Lifetime" of individual 1sG gaps	239
7.5	Distribution of verbs in the model output (generation 10),	
	according to lexeme frequency	241
7.6	Gap lifetime according to lexeme frequency	242

xiii

Tables

1.1	An example of a defective Russian verb	page 2
2.1	The Russian verb sprosit 'ask'	27
2.2	Lack of expression of the second locative in Russian	31
2.3	A traditional representation of Russian second locative as a subcase	31
2.4	A traditional representation of the partial case paradigm of Finnish nouns and adjectives	35
2.5	A traditional representation of the partial case paradigm of	
	Finnish pronouns	35
2.6	Partial case declension of Finnish nouns and adjectives	36
2.7	Periphrasis in the Latin passive perfect of LAUDARE 'praise'	38
2.8	An alternate representation of the Latin paradigm LAUDĀRE 'praise'	39
2.9	Marginal defectiveness in the Eastern Armenian kinship term	
2.9	K^{H} yur 'sister'	43
2.10	Albanian adjectival declension	46
3.1	Present tense indicative gaps in Spanish	66
3.2	Morphophonological alternations in the present indicative of	
	Spanish	66
3.3	Full paradigm of the defective Spanish verb ABOLIR 'abolish'	68
4.1	Paradigm of the defective Russian noun KOČERGA 'fire poker'	83
4.2	Six core cases expressed by Russian nouns (inanimate	
	patterns)	90
4.3	Example of a non-canonical Russian case	91
4.4	Russian noun declension (class IA, animate pattern)	92
4.5	Partial singular paradigms of Martuthunira nouns	99
4.6	Paradigm of the 3rd person personal pronoun ENA in Vedic	
	Sanskrit	104
4.7	Paradigm of the relative pronoun YA in Vedic Sanskrit	105

xiv

CAMBRIDGE

List of tables xv

4.8	Paradigm of the defective neuter noun YAKAN 'liver' in	
	Classical Sanskrit	106
4.9	Paradigm of the neuter noun YAKRT 'liver' in Classical	
	Sanskrit	106
4.10	Defective noun classes in Modern Greek	112
4.11	A Greek nominal macroclass with gaps in the genitive	112
4.12	Paradigm of reflexive and non-reflexive past active participles	
	in Latvian	115
4.13	Paradigm of reflexive and non-reflexive verbal nouns in	
	Latvian	116
4.14	Paradigm of reflexive and non-reflexive present active	
	participles in Latvian	117
4.15	Paradigm of the 3rd person personal pronoun ENA in Vedic	
	Sanskrit (redux)	121
4.16	Pattern of animacy-based syncretism in Russian nouns	124
4.17	Syntactic paradigm of Russian KARGA 'crow, hag'	129
4.18	Morphological paradigm of Russian karg- 'crow, hag'	129
5.1	A small inflectional paradigm: Modern Greek nouns	134
5.2	Three hypothetical inflectional classes	136
5.3	Greek nominal inflection classes	144
5.4	Inflectional distinguishers of Greek noun classes	147
5.5	Defective inflection classes in Modern Greek	151
5.6	A Greek noun class with inflectional stress in the genitive	
	plural	152
5.7	A Greek noun class with lexical stress throughout the	
	paradigm, and one that is ambiguous	153
5.8	Distribution of Greek genitive plural gaps by macroclass	
	stress type	154
5.9	Distribution of Greek genitive plural gaps in macroclasses	
	with inflectional stress uncertainty, by lexical stress	154
5.10	Another Greek noun class with genitive plural gaps	156
5.11	Similar but non-defective Greek noun classes	156
5.12	Entropy of Greek nominal paradigm cells	158
5.13	Pairwise conditional entropy of Greek nominal paradigm	
	cells	160
5.14	A bootstrap analysis of the average mutual information of	
	Greek nominal structure	166
5.15	Similar but non-defective Greek noun classes (redux)	171
5.16	A Greek nominal macroclass with gaps in the genitive	172

xvi List of tables

5.17	Suffixal subcomponent of Greek nominal exponence	175
6.1	Stimulus types for production and ratings experiment	183
6.2	Responses according to frequency of the target noun	193
6.3	Responses according to stress type	193
6.4	Simple future subparadigm for the Sanskrit verb $D\overline{A}$ 'give'	196
6.5	Periphrastic future forms for the Sanskrit verb DA 'give'	196
6.6	Partial paradigm of the Romansch verb DURMEIR 'sleep'	203
6.7	Present indicative forms of the Romansch verb LUSCHARDAR	
	'to strut, parade oneself'	204
7.1	Defectiveness in 1sg of Russian verbs	209
7.2	Stem-final palatalization in the 1sG of Russian dental stem	
	verbs	211
7.3	Distribution of defective Russian verbs within the 2nd	
	conjugation dental subclass	213
7.4	Four person/number frequency distributions found in Russian	
	verbs	214
8.1	Paradigm of the heteroclite, suppletive, and deponent	
	Croatian verb DIJETE 'child'	260
A.1	A hypothetical inflectional system	273
A.2	Hypothetical inflection class type frequencies	274
A.3	Hypothetical token frequencies for the paradigm cells of	
	class A	275

Preface

I first began working on inflectional defectiveness for my dissertation (Sims 2006), and this book is the inheritor of that thesis. The argument that I put forward in the following pages - that inflectional defectiveness is a systemic variant of normal inflectional structure that is rooted in the structure of the inflectional paradigm and the dynamic organization of the lexicon - already appeared in the dissertation, albeit in preliminary form, and so the core idea of the earlier work (its "soul," if you will) carries forward into this work. At the same time, the project has taken a long path and very little of the actual material from the dissertation (its "corporeal body") has survived the journey. My thinking about defectiveness, and about morphological theory in general, has developed and evolved considerably in the intervening time. Relevant new work has appeared and continues to appear, influencing my thinking and challenging me to rethink and push further. Finally, the present book has a broader scope than the dissertation, supporting a more expansive argument. As a consequence, readers who are familiar with the dissertation will find that this book bears little similarity to it.

Still, inflectional defectiveness remains interesting to me for the same reasons that I was drawn to the topic originally. Inflectional defectiveness is a situation in which we find *no* word-form, where by all accounts we expect to find *some* word-form. Given that the phenomenon seems to contradict the fundamental nature of inflectional morphology and fly in the face of speakers' tendency to generalize, we might expect it to be all but impossible for paradigmatic gaps to arise, and when they do surface, we might expect them to be quickly smoothed out. Yet contrary to expectations, paradigmatic gaps do arise occasionally, and once they do, they can persist indefinitely. Why does this happen? And how?

Paradigmatic gaps (=instances of inflectional defectiveness) are often considered to be the flotsam and jetsam of language – superficial historical trash that washes up on the shores of inflectional systems. They seem at first to be merely the ragged edge of an otherwise smoothly functioning inflectional

xvii

xviii Preface

system. Yet there are also data that tempt the linguist toward a deeper perspective. Why do gaps often follow the distribution of a morphophonological alternation? Or the distribution of a stem alternant? Why does defectiveness sometimes follow the distribution of a pattern of syncretism (or sometimes override a pattern of syncretism, or get overridden by a pattern of syncretism)? Over the last decade and more, evidence has accrued that defectiveness is not merely historical residue but rather is integrated with the core functioning of inflection.

Echoing a broader trend of investigating inflectional structure via phenomena that lie at its periphery, in this book I investigate why paradigmatic gaps arise in inflectional systems, why they persist, and how they are learned by new generations of speakers. Ultimately, I argue that far from being flotsam and jetsam, inflectional defectiveness offers deep insights into inflectional structure. I hope that the reader finds the material to be as rich and enticing as I have.

There are many people to thank, starting with my dissertation committee: Brian Joseph, Mary Beckman, and Dan Collins. Their guidance on the dissertation was invaluable, and despite the continued development of the project long after they had any official responsibility for it, I continue in this book to perceive their positive influence. Additionally, during a postdoctoral fellowship at Northwestern University I benefited from a productive and inspiring collaboration with Janet Pierrehumbert and Robert Daland. That collaboration produced the learning model that forms the core of Chapter 7, and I thank them greatly for their tangible contributions to that part of the study and also for the less quantifiable ways in which they were formative on my thinking. Similarly, Matt Goldrick deserves recognition for giving me a nudge in the right direction at the right time.

Many people provided valuable comments on parts or all of the book draft or on presentations of the work in progress. I thank in particular Farrell Ackerman, Adam Albright, Matthew Baerman, Jim Blevins, Olivier Bonami, Raphael Finkel, Andrew Hippisley, Brian Joseph, Jeff Parker, Andrew Spencer, Greg Stump, Adam Ussishkin, two anonymous reviewers of the book proposal, and one anonymous reviewer of the full manuscript. Their differing perspectives helped me to sharpen my own thinking and improved the quality of both data and argument. I also thank the following people who served as language consultants, or who helped me to acquire and make sense of data: Yuliia Aloshycheva, Hope Dawson, Merja Hollenbach, Lily Liaw, Agi Risko, Giorgos Tserdanelis, Loukas Tsitsipis, and Savas Tsohatzidis. (I apologize to anyone whom I may have inadvertently omitted.) I thank Helen Barton, Commissioning Editor for Linguistics at Cambridge University Press, for her support of this project and guidance. Any remaining errors, omissions, or stupidity in the following work are entirely my own. CAMBRIDGE

Preface xix

During the writing of this book, I presented parts of the work in a number of venues. I wish to thank the organizers of the following workshops, conferences, and speaker series for invitations to present the work in progress:

- Linguistics speaker series, University of Chicago, 2007.
- 6th Graduate Colloquium on Slavic Linguistics, Ohio State University, 2008.
- Workshop on Quantitative Measures in Morphology and Morphological Development, Center for Human Development, University of California San Diego, 2011.
- Linguistics speaker series, University of Kentucky, 2011.
- CogFest, Center for Cognitive and Brain Sciences, Ohio State University, 2011.
- Workshop on Information-based Approaches to Linguistics, Linguistic Society of America Summer Institute, University of Colorado Boulder, 2011.
- Linguistics speaker series, University of Arizona, 2014.

I am also grateful for useful feedback from audiences at the following conferences: Association for Computational Linguistics (Prague, 2007), Chicago Linguistic Society (Chicago, 2007), Slavic Linguistics Society (Berlin, 2007), Defective Paradigms: Missing Forms and What They Tell Us (London, 2008), Linguistic Society of America (Chicago, 2008), and International Morphology Meeting (Budapest, 2010). Portions of Chapter 6 (in particular, §6.3) summarize and reproduce work that first appeared in Sims (2009), and are used here with kind permission of the Chicago Linguistic Society. Parts of this work were supported by a Presidential Fellowship at Ohio State University, a Mellon Postdoctoral Fellowship at Northwestern University, and an Assistant Professor Research Fund at Ohio State University. The human subjects research reported in Chapter 6 was conducted under Ohio State University IRB protocol 2005E0129.

Finally, on a more personal level, I thank my parents for modeling academic success and for their constant encouragement across many years. Without them, I would not be where (or who) I am now. I thank the Linguist Ladies (you know who you are) for their support and advice. I thank Christina Kramer for reminding me to put the oxygen mask on myself first. Finally, and most of all, I thank Jason Packer for all manner of emotional, technical, and logistical support – so many things that it is impossible to list them here. Without him, this book is unlikely to have come to fruition.

Abbreviations

1	first person
2	second person
3	third person
ABES	abessive
ACC	accusative
ACC2	second accusative
ALL	allative
ANIM	animate / animacy
AUX	auxiliary
CF	count form
COM	comitative
DAT	dative
DEF	definite
DESD	desiderative
DIR OBJ	direct object
DU	dual
F	feminine
FUT	future
GEN	genitive
gen2	second genitive
Н	entropy
HNC	Hellenic National Corpus
Ι	mutual information
ILL	illative
IMP	imperative
INAN	inanimate
IND	indicative
INDF	indefinite
INDR OBJ	indirect object
INF	infinitive
XX	

© in this web service Cambridge University Press

CAMBRIDGE

Cambridge University Press 978-1-107-04584-2 - Inflectional Defectiveness Andrea D. Sims Frontmatter More information

List of abbreviations xxi

INS	instrumental
LKN	Lexikó tīs koinī́s neoellīnikī́s
LNEG	Lexikó tīs néas ellīnikī́s glóssas
LOC	locative
loc2	second locative
Μ	masculine
Ν	neuter
NEG	negation
NOM	nominative
NPST	non-past
NUM	number
OED	Oxford English Dictionary
PART	partitive
PASS	passive
PF	paradigm function
PFV	perfective
PL	plural
POSS	possessive
PPP	past passive participle
PRS	present
PST	past
PURP	purposive
RECP	reciprocal
RNC	Russian National Corpus
SBJ	subject
SG	singular
VOC	vocative
β	beta parameter (strength of analogy)
σ	set of morphological-paradigm feature values
τ	set of syntactic-paradigm feature values