

Five Papers In Australian Phonologies

JOURNAL ARTICLE

Stress Effects on Stop Bursts in Five Languages

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This study examines the effects of stress on the stop burst in five languages differing in number of places of articulation, as reflected in burst duration, spectral centre of gravity, and spectral standard deviation. The languages studied are English (three places of articulation /p t k/), the Indonesian language Makasar (four places /p t c k/), and the Central Australian languages Pitjantjatjara, Warlpiri (both five places /p t t̪ c k/), and Arrernte (six places /p t t̪ c k/). We find that languages differ in how they manifest stress on the consonant, with Makasar not showing any effect of stress at all, and Warlpiri showing an effect on burst duration, but not on the spectral measures. For the other languages, the velar /k/ has a "darker" quality (i.e., lower spectral centre of gravity), and/or a less diffuse spectrum (i.e., lower standard deviation) under stress; while the alveolar /t/ has a "lighter" quality under stress. In addition, the dental /t̪/ has a more diffuse spectrum under stress. We suggest that this involves enhancement of the features [grave] and [diffuse] under stress, with velars being [+grave] and [-diffuse], alveolars being [-grave], and dentals being [+diffuse]. We discuss the various possible spectral effects of enhancement of these features. Finally, in the languages with five or six places of articulation, the stop burst is longer only for the palatal /c/ and the velar /k/, which have intrinsically long burst durations, and not for the anterior coronals /t̪ t̪/, which have intrinsically short burst durations. We suggest that in these systems, [burst duration] is a feature that separates these two groups of consonants.

Keywords: stop bursts; articulatory prosody; acoustic features; Australian languages; Indonesian languages

1 Introduction

In this paper we consider the effects that lexical stress can have on the same consonants in different languages. In particular we are concerned with whether the effect of lexical stress on individual consonants is moderated by the overall make-up of the phoneme inventory. To this end, we focus on the oral stop burst, in 3-, 4-, 5-, and 6-place systems. We compare the well-studied 3-place stop system of English /p t k/ with the 4-place system of the Indonesian language Makasar /p t c k/, with the 5- and 6-place systems of three Central Australian languages—Pitjantjatjara and Warlpiri /p t t̪ c k/ and Arrernte /p t t̪ c k/. Relative to English, Makasar has an extra alveo-palatal place of articulation (henceforth simply palatal); in their turn, Pitjantjatjara and Warlpiri also have an extra retroflex place of articulation; and Arrernte in its turn has an extra dental place of articulation. Table 1 shows the relevant places of articulation for each language. We provide

Part Of Series: Work Papers of SIL - AAB. Series A 1. Extent: vii, pages. Publication Status: Published. Country: Australia. Subject Languages: Alyawarr [aly].Five Papers in Australian Phonologies. by Hudson, Joyce. Publication date Topics Ngalkbun Phonology, ngk. Publisher Summer Institute.Non-back Back High i u Mid e o Low a WORK PAPERS OF SIL-AAB Series A Volume 1 FIVE PAPERS IIM AUSTRALIAN PHAiMOLOGIES EDITOR.5 papers in Australian phonologies. Other Authors. Hudson, Joyce. Summer Institute of Linguistics. Australian Aborigines Branch. Published. Darwin: Summer.Available in the National Library of Australia collection. Format: Book; vii, p. ; 26 cm.ISBN, Series. Work papers of SIL-AAB. Series A ; v. 5. Notes. Includes bibliographies. Subjects, Australian Aboriginal languages. Phonology.Capell, A. University of Sydney. oai:millrace-cedarfalls.com: rosettaproject_ngk_morsyn-1; ONLINEFive Papers in Australian Phonologies. Hudson, Joyce. Australian English is a regional dialect of English which shares its phonemic inventory with. Southern The purpose of this paper is to provide a description of the main features of SAusE. .. Values are from citation form /hV/ words from five male speakers. . Prosodic Typology: The Phonology of Intonation and Phrasing. .Two long papers by A. Capell, 'Grammatical classification in Australia' of 'five- vowel languages' and states that 'when these areas are plotted against certain grammatical . Proto-Kanyara and proto-Mantharta historical phonology. Paper.Australian languages typically have five, six or even seven place of articulation contrasts, which depend on rapid spectral changes in this part of the frequency.In this paper, we present an analysis of Roper Kriol in which we show, Five Papers in Australian Phonologies [Work Papers SIL-AAB A 1].A description of the phonology, grammar and discourse of Iwaidja is found in Pym and Larrimore (), available in Five papers in Australian phonologies.Comparison of two groups of Western Australian languages and reconstruction of This paper was written while I was a post-doctoral fellow in linguistics at the Massachusetts . (1) all Mantharta languages have five verb suffixation patterns (con- . ""In a parallel treatment of proto-Kanyara (PK) phonology which is in.The Wik-Munkan picture. In J. Hudson (Ed.), Five papers in Australian phonologies (pp.). Darwin: Summer Institute of Linguistics, Australian Aborigines.?Aranda (5) Alyawarr . Nganyaywana. ?Ngarna (5) .. citation, Hudson, Joyce , Five papers in Australian phonologies, , , ozbib, sil citation.Keywords: Creole phonetics, creole phonology, vowels, language Roper Kriol is an English-lexified Australian creole maintained a substrate-like five-vowel inventory, but also used a .. (eds), Papers in Australian Linguistics No. The five papers in this volume deal with various aspects of phonological theory, and all show the influence of Stampe's Natural Phonology. Schourup's contribution. (originally A number of northern Australian languages, such as. Dyirbal.

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