OUTLINE: A comparative study of phonetic complements in Near Eastern cuneiform and Jurchen siniform

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Category and Characteristics of phonetic complement in cuneiform paleography

- 1. Definition: Phonetic indicators which are attached to a basic sign to facilitate its reading
- II. Sum. *#III**é "house" > Akk. *#III**É-tim (= bītim) "house (gen.)" morphological determination
 - III. Akk. ➡₹⁴¬*dUTU-ši (= Šamši) "Shamash, sun god" specific complementation
- 2. Paleographic features
 - I. To determine nearly one exact reading for which the entire graphic sign series can stand
 - II. Attached to the basic logograms, usually immediately after them
 - III. Quiescent in the entire graphic series when pronounced
- IV. To reduce the basic signs to shorter values during the diachronic development and thereafter to become affixal signs
- 3. Practical features
 - I. To determine the reading in the cases of polyphonous signs
- II. To note the value of the medial vowel(s) in some phonetic frames expressed as simply as possible
 - III. To evade the confusion between two graphically similar signs

Historical background of Jurchen writing system

- 1. Internal development: Chinese transcription parallel in Ming glossary is the only direct phonetic reflection of Jurchen language, besides some few transcribed items sporadic in Chinese historiography
- I. Sino-Jurchen Glossary in early Jin (12th century): mainly logography (< Khitan macroscript < vulgar Chinese characters)
- II. Jin Jurchen epigraphy $(12^{th} 13^{th} \text{ century})$: logosyllabography (influenced by Mongolic languages)
- III. Ming Jurchen inscription and documents $(14^{th} 16^{th} \text{ century})$: mainly syllabography (developed into Manchu language)
- 2. Internal features of siniform: Origins of Chinese and Khitan scripts (siniform character as homophonous as possible)
- I. Syllabic expression: consonants without vowels combined unavailable to graphic expression; actual syllables in Jurchen lexemes, rather than in Jurchenograms, transcribed by Chinese characters

- C. 先**DIL^OG-an "fame" with Chi. dí-lè-àn (cf. Ma. dilgan)
- D. 司*ERU "ugly" with Chi. è-wǔ (cf. Ma. ersun); 尚元吳*ta'-ma-gi "fog" with Chi. tá-mǎ-jí or tá-ér-mǎ-jí (cf Ma. talman)
- II. Graphic series based on monographic, instead of syllabic, spelling:

- C. 奚毛升*PENIR-ir-he "hair" cf. Ma. feniyehe, 來凡*pe-reğe "to gather" with Chi. fēn-è internal syllables truncated graphically

Common roots expressed by different characters:

- A. 無*ŃEŃEN "spring" ~ 帝号重*ńon-ńe-χa "goose"
- C. 何*DOQO "lining" ~ 单早*do-lo "inside"
- D. 或斥*ΓO'MI-gi~ 义斥*ΓO'MI-gi "long, extended"

Syllabication – roots truncated graphically:

- - B. 吴寿*ši'-seri "evening" (cf. Ma. šikseri)
- III. Modern examples of phonetic complements in Chinese transcription:
- A. Tom > 湯姆 *tang-mu*, Beckham > 貝克漢姆 *bei-ke-han-mu* in Mandarin without m-final syllables
- B. Thatcher > 戴卓爾 *tai-cheuk-yi*, Juventus > 祖云達斯 *cho-wan-tat-sei*, Beckham > 碧咸 *pik-ham* in Cantonese with stop-final and m-final syllables

Classifications of Jurchen phonetic complements

- 1. Compatibility with Chinese transcription
- I. Incompatible: 中米*WIXAN-an "ox, cow" Chi. wěi-hǎn, 国土*GURUN-un "country, dynasty, state" Chi. guó-lún, 伊列*MORIN-in "horse" Chi. mǔ-lín, 玫纹草*po-on=do "time (loc.)" Chi. fǔ-wān-dŏ; 坦枣*XADU-we "clothes" Chi. hā-dū; 用主*UJE-e "heavy" Chi. ù-zhě
- II. Segmental: 压士*ALČUN-un "gold" Chi. ān-chūn-wēn; 東列*U'ČIN-in "armor" Chi. wù-chēn-yīn; 與克*XAĞAN-ŋan "king" Chi. hǎn-ān; 压于*JŪI-i "son" Chi. zhuī-yī; 舍分*ŠA-a "ears" Chi. shā-ā!
- 2. Morphological orientation

係臭*ŠIŠI-he "mattress" (cf. 係*ŠIŠI "hazel seed"); 写为*ILI-bun "to erect, erected" (cf. 写赤月*ILI-šu-yai "to establish")

III. Questionable: 夜分*PAMA-a "country", 砭分*PA-a "window"

3. Phonetic orientation

- I. Syllabication of ultimate phonemes: * / 片*an, 古*en, 列 / 兔*in, 灸*on, 士 / 下*un; 商*ar, 尽*ər, 早*ir, 举*ur, 戍*ul; 欠*m[u], 矣*am, 耒*im
- II. Expression of ultimate syllables: \mathcal{F} *a, \mathcal{F} / \mathcal{F} *e, 雨 / \mathcal{F} *i, 斥*o, 午*u; 条*ŋa, 臣 / \mathcal{F} *ne, \mathcal{F} *ni, 气*no, \mathcal{F} *nur, \mathcal{F} *
- III. Expression of beginning syllables 步*a, 寸 / 戈*i, 萃*he, 聚*pe, 吳*ši'; no such type in cuneiform but in Egyptian and Maya hieroglyphics

Paleographical description of Jurchen phonetic complements

1. Theoretical features

- I. Primary implication: quiescence equivalent to the canonical phonetic complements in cuneiform paleography 中米*WIXAN-an "ox, cow", 国土*GURUN-un "country, dynasty, state", 伊列*MORIN-in "horse", 旦枣*XADU-we "clothes", 同主*UJE-e "heavy"
- II. Secondary implication: pronounced used as phonetic complementation and pioneering for syllabic truncation 压士*ALČUN-un "gold", 東列*U'ČIN-in "armor", 風元*XAĞAN-ŋan "king", 压寸*JUI-i "son", 含分*ŠA-a "ears"

III. Derivative implication:

A. Graphic affixation -

- 4) 鱼些*ČAU'XA-ši "army, soldiers (pl.)" (in Jin epigraphy & with Chi. *chāo-hā-shī* in Ming glossary of Peking version) > 鱼垂*ČAU'[XA]-ҳa "army" (in Jin epigraphy & Ming glossary with Chi. *chāo-hā*) > 尚鱼斥*hu-čau-gi "glory" (in Ming glossary), 鱼友灸*čau-la-mai "to present" (in Ming memorials)
- B. Spelling contraction used as finals

 - 3) 禾塚札鱼*su-un=bi-in "brigade general; Chi. 縂兵 zong-bing"

2. Practical features

- I. Graphic differentiation of expressions: both against logography and against phonography

 - B. **YARA-an (in Jin epigraphy) ~ **YARA (in Ming glossary) "leopard"
- C. 单命* Γ AXŪN-hun(?) (in Jin epigraphy) \sim 华土* Γ AXŪN-un (in Ming glossary) "eagle, hawk"

glossary) - "castle"

- F. 太草**tai-ira-an (in Jin epigraphy) \sim 太草*tai-ira (in Ming glossary) "monastery" > 太草*OMI-[i]ra "to drink" / 汞草*DAŠI-[i]ra "to overwhelm" / 雨利草*i-ja-ra "to assemble" (in Ming glossary)
- - II. Radical-homophonous differentiation

 - D. 反 *TUR-ra "pillar" ~ 反 年*TUR-γa "lean, thin" (with Chi. tū-hā)
 - III. Implementation to graphic evolution from logography to phonography

 - C. 斥*TIQO "fowl" ~ 斥乐*ETUKU-hun "to wear"

Values of phonetic-complement interpretation for Jurchen writing system

1. Phonetic revision of some Jurchenograms

*we \sim he

IV. ₹:

I. 疾: *aγa rather than *a and *γaII. 少: *amur rather than *amuIII. 共: *reğe rather than *he and *riye

- 2. Tentative reconstruction of some Khitan macroscripts
- II. Official title: 光급*ŠARI-ri "郎君 *lang-jun*" (with Chi.沙里 *sha-li*, cf. Khi.mi. 又为夫*š-a-ri) 光*ŠARI > Jur. 元*ŠIRI "copper", *先*ŠIRA "old"; vs. Jur. 芳休*ša-li "office"

rather than *he, *e, *u, *we

- 3. Significances to logosyllabic writing system
- I. Phonetic complements in a writing system resulting also from some shortage of syllables in the relevant lingual phonology
- II. Khitan macroscript, just as Jurchen writing, logosyllabic; whereas Khitan microscript, just as Persian cuneiform, syllabophonemic with few logograms
- III. Some universals contained in graphic development and borrowing, just as in language evolution and contacts

ABBREVIATIONS

Akk. – Akkadian, Chi. – Chinese, Jur. – Jurchen, Khi. – Khitan, Khi.mi. – Khitan microscript, Ma. – Manchu, Mo. – Mongol, Sum. – Sumerian

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