

The Oldest Extant Source on the Indian Lore of Nakṣatras According to Vṛddhagarga

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1.0 *Gārgīyajyotiṣa* and the Origin of the Indian Nakṣatras

- Gap of intervening period: c. 500 BCE to c. 500 CE.
- *Gārgīyajyotiṣa* in 64 “*aṅgas*,” 1st century CE?
- Geslani, Marko, Bill M. Mak, Michio Yano, Kenneth Zysk. “Garga and early astral science in India”. *History of Science in South Asia*, 5.1 (2017): 151-191.
- Mak, Bill. 2018. “Tithikarmaguṇa in *Gārgīyajyotiṣa* – Tithi worship according to a number of early sources.” *Journal of Indian and Buddhist Studies* 66 (3): 958-911.

1.1 Nakṣatras in the Vedic Literature

- Full set of 27 *nakṣatras* (from Kṛttikā): *Taittirīyasaṃhitā* 4.4.10, *Taittirīyabrāhmaṇa* 1.5.1. Early first millennium BCE.
- 28 *nakṣatras* (with Abhijit): *Maitrāyāṇīsaṃhitā* 2.13.20, *Taittirīyabrāhmaṇa* 3.1.1, *Atharvaveda* 19.7.2-5. Late first millennium BCE.

2.0 The Lore of the Nakṣatras according to Vṛddhagarga in the *Gārgīyajyotiṣa*

Aṅga	1	2-11 (except 3)
Structure	With subsections	Without subsections
Format	Prose and verses (in śloka and other meters)	Verse only (in śloka)
Content	Lunar-Nakṣatra astral lore	Planetary astral lore
Attribution	Garga and Vṛddhagarga	Garga

Preamble:

[I] *tathā laukikavaidikādhyātmikānām arthānām karmaguṇānām prayogakālasiddhyartham tithinakṣatramuhūrtakaraṇānām ca prayoktā*

[The astrologer/astronomer (*sāṃvatsara*)] thus determines (lit. “the fixer” [of]) the *tithi*, *nakṣatra*, *muhūrta*, and *karaṇa* for success at applicable time of the characteristic ritual acts (*karmaguṇa*) whose purposes are mundane, Vedic or supramundane.]

[II] *caturvyūham karmaguṇam gargeṇoktam yathāvidhi| tithinakṣatrakaraṇair muhūrtānām ca saṃpadaḥ||*

The quality of actions was proclaimed by Garga to be of four varieties, accordingly, and to be furnished by *tithis*, *nakṣatras*, *karaṇas*, and *muhūrtas*.

[III] Incongruous closing remark: *vṛddhagarge jyotiṣaśāstre nakṣatrakarma nāma caturtho 'dhyāyah* (“Chapter Four titled "Actions of Nakṣatra" of the Jyotiṣaśāstra of Vṛddhagarga”)

2.1 Number of Nakṣatras: Twenty-seven or twenty-eight?

[IV] *ekatāre śatabhiṣaj puṣyārdrā tvāṣtram ānilam |
rādhā bhadre saphālgunyaw dvitāram aurvam āśvinam ||
tritāram ilvikā yāmyam jyeṣṭhā brāhmaṇam savaiṣṇavam |
catustārāṇy āśādhe dve maitraṇ pauṣṇam savāsavam ||
pañcatāram bhaved dhastam prājāpatyam tathaiva ca |
ṣaṭtāram kṛttikā mūlam āśleṣā paitryam eva ca ||*

“One star have Śatabhiṣaj, Puṣya, Ārdrā, Citrā, and Svātī. Two stars have Rādhā (i.e. Viśākhā), the two Bhadrapadās, the two Phālgunī, Punarvasu (Aurva = Aditi) and Aśvinī. Three stars have the Ilvikās, Bharanī, Jyeṣṭhā, Abhijit, Śravaṇa. Four stars have the two Āśādhas, Anurādhā, Revatī and Śraviṣṭhā. Five stars have Hasta and Rohiṇi. Six stars have Kṛttikā, Mūla, Āśleṣā and Maghā.” (Thibaut trans.)

2.2 Divinities of the Nakṣatras

[V] *nakṣatradevatā hy etā etābhir yajñakarmani / yajamānasya sāstrajñaiḥ nāma nakṣatrajaṇ smṛtam // R-VJ 28; Y-VJ 35.*

“The people learned in the religious lores say that these deity-names are to be substituted for their own names in the (saṅkalpa of) the yāga (of the person on whose behalf the sacrifice is performed, viz.) the yajamāna.” (Kuppanna Sastry trans.).

	Nakṣatra	Garga (G1 nakṣatrakarma)	VJ R25-26, Y36-40	TS 4.4.10	AVP	ŚKA skt
1	Kṛttikā	vahni (=agni)	agni	agni	agni	agni
2	Rohiṇī	prājāpatya (=prajāpati)	prajāpati	prajāpati	prajāpati	brahmā/prajāpati
3	Mṛgaśiras	saumya (soma)	soma	soma	maruta	soma
4	Ārdrā	rudra-	rudra	rudra	rudra	śūlabhṛt
5	Punarvasu	āditya (=aditi)	aditi	aditi	aditi	aditi/āditya
6	Puṣya	bṛhaspatya (=bṛhaspati)	bṛhaspati	bṛhaspati	bṛhaspati	bṛhaspati
7	Aśleṣā	sarpa-	sarpāḥ	sarpāḥ	sarpāḥ	sarpāḥ
8	Maghā	pitṛ-	pitarah	pitarah	pitarah	pitṛ/pitarah
9	Pūrvaphalgunī	bhaga-	bhaga	aryaman	bhaga	pitarah/aryaman
10	Uttaraphalgunī	āryamaṇa (emend. = aryaman)	aryaman	bhaga	aryaman	aryaman/bhaga
11	Hasta	sāvitra (=savitr)	savitr	savitr	savitr	sūrya
12	Citrā	tvāṣṭra (=tvaṣṭṛ)	tvaṣṭṛ	indra	tvaṣṭṛ	tvaṣṭṛ
13	Svātī	vāyavya (=vāyu)	vāyu	vāyu	vāyu	vāyu
14	Viśākhā	aindrāgnya (=indrāgnī)	indrāgnī	indrāgnī	indrāgnī	indrāgnī
15	Anurādhā	mitra	mitra	mitra	mitra	mitra

16	Jyeṣṭhā	aindra (=inda)	indra	indra	indramahādeva	indra
17	Mūla	nairṛta (=nirṛti)	nirṛti	pitarah	ahirbudhnya/ nirṛti	nairṛti
18	Pūrvāṣādhā	āpya (=āpah)	āpah	ap	ap	toya/āpah
19	Uttarāṣādhā	vaiśvadeva (=viśva)	viśvadevāḥ	viśva	viśvadeva	viśva
20	Abhijit	-	-	-	brahma	brahma/viṣṇu
21	Śravaṇā	vaiṣṇava (=viṣṇu)	viṣṇu	viṣṇu	viṣṇu	viṣṇu
22	Dhaniṣṭhā (Śraviṣṭha)	vāsava (=vasu)	vasavaḥ	vasavaḥ	vasu	vasu/vasavaḥ
23	Śatabhiṣā	vāruṇa (=varuṇa)	varuṇa	indra	varuṇa/indra	varuṇa
24	Pūrvabhādrapadā	āja (=aja)	aja ekapād	ajaikapād	ajaikapād/diś	ahirbudhnya
25	Uttarabhādrapadā	ahirbudhnya	ahirbudhnya	ahirbudhnya	āditya	ahirbudhnya
26	Revatī	pauṣṇa (=puṣan)	puṣan	puṣan	puṣan	puṣan
27	Aśvinī	aśvayugala	aśvayugala	aśvinau	aśvinau	aśvin/gandharva
28	Bharanī	yāmya (=yama)	yama	yama	yama	yama

Table 1 Comparison of *Nakṣatra* deities

2.3 Number of stars

Group one (characterized by Śatabhiṣaj 100 stars, Revatī 32, and Aśvinī 3):

- i. Vṛddhagarga's *Nakṣatrakarma* in *Gārgyājyotiṣa* (G1-i)
- ii. Varāhamihia's *Brhatsaṃhitā* 97.1-2 (Var)
- iii. Brahmagupta's *Khandhakhādyaka* 1.9.1-2 (Bra)
- iv. Lalla's *Ratnaḥkoṣa* (Lal)
- v. *Vaṭeśvarasiddhānta* 8.2.12-13 (Vaṭ)
- vi. Śrīpati's *Jyotiṣaratnamālā* (Śrīp)
- vii. Rāma's *Muhūrtacintāmaṇi* (MC)
- viii. First fascicle of Amoghavajra's *Xiuyao jing* 宿曜經, Japanese (XYJ1j) and Chinese (XYJ1c) editions

Group two (characterized by Śatabhiṣaj 1 star and Aśvinī 2):

- ix. Garga's *Nakṣatrakendrabha* in *Gārgyājyotiṣa* (G1-ii)
- x. *Atharvaparīṣiṣṭa* (AVP)
- xi. *Śārdūlakarṇāvadāna* (Śārd)

- Amoghavajra's *Xiuyao jing*. Yang Jingfeng's recension in 759 CE.

3. Conclusion: Development of the *Nakṣatras*

- 27 *nakṣatras* as day-indicator associated with Vedic rituals and natal astrology, enumerated from Kṛttikā (Vṛddhagarga)
- 27 *nakṣatras* associated with sidereal movement of the Moon (27.3 days) (*Vedāṅgajyotiṣa*)
- 28 *nakṣatras* with the inclusion of Abhijit, motivated by the attempt to gain greater accuracy in the uneven *nakṣatra* coordinate system (*Atharvavedaparīṣiṣṭa*, *Śārdūlakarṇāvadāna*)
- Abhijit associated with the post-Vedic deity Brahmā.
- 28 *nakṣatra* system died out but is preserved in early Vedic and Buddhist texts
- 27 *nakṣatras* enumerated from Aśvinī (= Meṣa or Aries)

	Nakṣatra	G1-i	G1-ii	AVP	Śārd	Var	Bra	Lal	Vaṭ	Śrīp	MC	XYJ1j	XYJ1c	隋書
1	Kṛttikā	6	6	6	6	6	6	6	6	6	6	6	6	7
2	Rohiṇī	5	5	1	5	5	5	5	5	5	5	5	5	8
3	Mrgāśiras	3	3	3	3	3	3	3	3	3	3	3	3	3
4	Ādrā	-	1	1	1	1	1	1	1	1	1	1/2/10	1	10
5	Punarvasu	2	2	2	2	5	2	4	4	4	4	2	2	8
6	Puṣya	-	1	1	3	3	1	3	3	3	3	3/5	3/5	5
7	Aśleṣā	6	6	6	1	6	6	5	6	5	5	6	6	8
8	Maghā	6	6	6	5	5	6	5	5	5	5	6/8/5	6	7
9	Pūrvaphalgunī	2	2	4	2	8	2	2	2	2	2	6	2	6
10	Uttaraphalgunī	2	2	4	2	2	2	2	2	2	2	2	2	22
11	Hasta	5	5	5	5	5	5	5	5	5	5	5	5	4
12	Citrā	1	1	1	1	1	1	1	1	1	1	2	2	2
13	Svātī	1	1	1	1	1	1	1	1	1	1	1	1	4
14	Viśākhā	2	2	2	2	5	2	4	4	4	4	1	1	4
15	Anurādhā	4	4	4	4	4	4	4	4	4	4	4	4	4
16	Jyeṣṭhā	3	3	1	3	3	3	3	3	3	3	3	3	3
17	Mūla	6	6	7	7	11	2	11	11	11	11	9	2	9
18	Pūrvāṣāḍhā	4	4	8	4	2	4	2	2	4	2	4	4	4
19	Uttarāṣāḍhā	4	4	8	4	8	4	2	3	4	2	4	4	6
20	Abhijit	-	3	1	3	-	3	-	3	-	3	3	3	6
21	Śravaṇā	3	3	3	3	3	3	3	3	3	3	3	3	4
22	Dhaniṣṭhā (Śraviṣṭha)	4	4	5	4	5	5	4	4	4	4	4	4	2
23	Śatabhiṣā	100	1	1	1	100	1	100	100	100	100	100	1	3
24	Pūrvabhādrapadā	2	2	4	2	2	2	2	2	2	2	2	2	2
25	Uttarabhādrapadā	2	2	4	2	8	2	2	2	2	2	2	2	2
26	Revatī	32	4	1	1	32	1	32	32	32	32	32	32	16
27	Aśviṇī	3	2	2	2	3	2	3	3	3	3	3	3	3
28	Bharaṇī	3	3	3	3	3	3	3	3	3	3	3	3	3

Table 2 Comparison of the Number of Stars in a *Nakṣatra*