

THE PLEIADES AS OPENINGS, THE MILKY WAY AS THE PATH OF BIRDS, AND THE GIRL ON THE MOON: CULTURAL LINKS ACROSS NORTHERN EURASIA

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Abstract: The Baltic-Finnish and the Baltic (Latvian and Lithuanian) cosmonyms mostly coincide while the Baltic and Slavic cosmonymic patterns are different. The Pleiades in the Eastern Baltic are ‘a sieve’, the Milky Way is ‘the path of migratory birds’ and a girl holding water pails is seen on the Moon. Across most of Central, Western and Southern Europe the Pleiades are ‘a hen with its chicken’, the Milky Way and the lunar spots have other (and different) interpretations. The Eastern Baltic pattern is identical with the Middle Volga one where it is widespread among both Finnish-Permian and Turkic groups and probably relates back to the (Proto-Baltic?) culture of the Iron Age. However, parallels for the cosmonyms in question are found across most of Northern Eurasia and find corresponding similarities in some parts of North America. ‘Water-carrier on the Moon’ is the most widespread of these motifs being known in Japan and Polynesia. In Eurasia, the Northern Samoyeds noticeably lack all three images. The initial emergence of at least some of the cosmonyms under discussion in the Terminal Pleistocene of northern East Asia and their further dissemination towards the West, down to the Baltics, is a hypothesis to be checked.

Key words: Asian-American cosmonymic links, folk astronomy, lunar spots, prehistory of Northern Eurasia, the Milky Way, the Pleiades

Seven objects in the night sky attracted attention in Eurasian cultures outside the Tropical Zone. These are the Moon with dark spots on its disc, Venus, the Milky Way, the Big Dipper, the Pleiades, the Belt of Orion, and Polaris. Other planets, stars and constellations were also singled out by some cultures, yet ignored by others. Though the number of Eurasian cosmonyms is great, most of them are either rare or are mere variants of a few dominant ways of interpretation. The conservatism of cosmological vocabulary and of mythopoetic ideas which underlie it makes them a good source of data on the past’s ethno-cultural development.

The cosmonymic map of Europe lets us infer that this past may have been rather distant. The areal distributions of several cosmonyms recorded recently,

or preserved in written sources, do not coincide with the borders of linguistic families. In particular, cosmonymic vocabularies of the Balts and the Baltic Finns are identical even though the languages of these peoples belong to two unrelated families. Everywhere in the Eastern Baltic the Milky Way is the 'path of (migratory) birds', the Pleiades are a 'sieve', and a girl with pails in her hands is seen on the Moon. However, everywhere to the south and west of the Baltic Sea, excluding those areas of Poland and Belorussia where Baltic languages were relatively recently replaced by Slavic languages (Gładyszowa 1960; Niebrzegowska 1999: 149; Vaiškūnas 2004: 169–170), the Eastern Baltic-type cosmonymy is absent and exceptions are few. The 'path of birds' is known to the Lusitanian Sorbians (Azimov & Tolstoj 1995: 118); the interpretation of the Pleiades as a sieve was recorded among Hungarians (Mándoki 1963: 519–520; Zsigmond 2003: 434) and in a few cases among Italians (Volpati 1932: 206; 1933b: 21); and 'girl on the Moon' is typical for Macedonia and North-Eastern Bulgaria, with a few cases in Romania (Marinov 2003: 28; Mladenova 2006: 137, 263–264, map 29; Tsenev 2004: 47).

Despite the exceptions mentioned, there is clearly a basic cosmonymic border between the Balts and the Slavs. The absence of such a border between Balts and Baltic Finns is also not subject to doubt. What historical processes could produce such a boundary?

THE PLEIADES AS OPENINGS IN THE SKY

We begin with the Pleiades. Putting aside the association of the Pleiades with a group of people (images of this sort are recorded in various areas but are very different from each other), three basic variants are widespread in Europe (Fig. 1. Numbers: 1 'hen with chickens', 2 'wild duck's nest', and 3 'sieve').

The cosmonym 'hen with its chickens', 'brood', 'chickens', 'pullets' and the like are typical for Western, Southern and Central Europe, the Balkans, and Western Ukraine (Andree 1878: 106; Boneva 1994: 12; Chubinskii 1872: 14; Janković 1951: 141; Krappe 1938: 152; László 1975: 604; Matičetov 1974: 49; Mladenova 2006: 89–93; Niebrzegowska 1999: 145; Smith 1925: 124; Sviatski 1961: 120; Volpati 1932: 194–205; 1933a: 507). Inside this zone, they are only absent across most of the territory of the former Yugoslavia and among the peoples of the Pyrenees (other than the Basques, who do have this). Outside Europe, 'hen with its chickens' is typical for West Africa and the Sudan (Hirschberg 1929: 326–327; Meek 1931: 200; Schwab 1947: 413; Spieth 1906: 557; Volpati 1933a: 507), for North-East India, and for South-East Asia (Andree 1878; Smith 1925: 114; Vathanaprida 1994: 39–41).

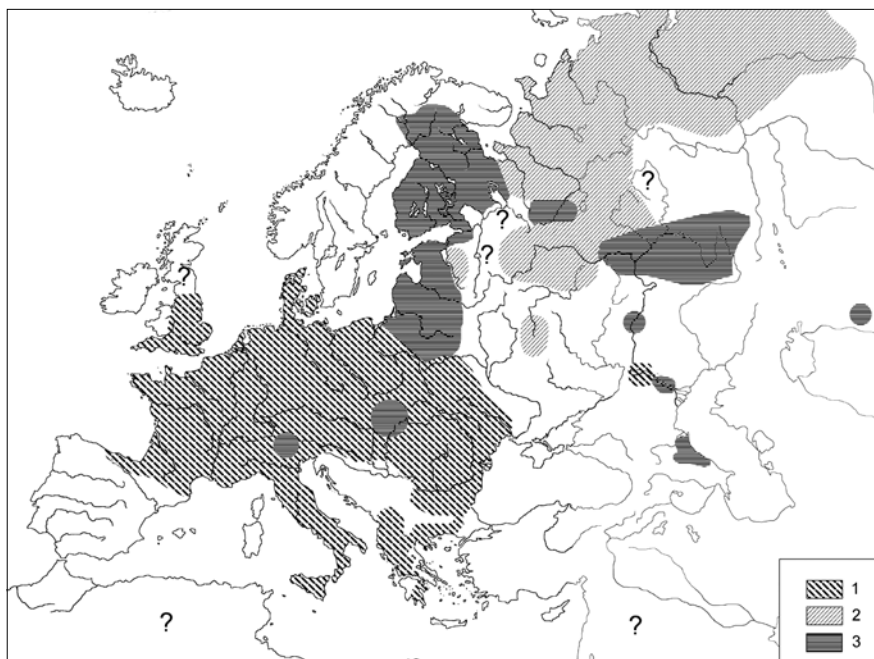


Figure 1. Major variants of the folk-names for the Pleiades in Europe: 1. Hen and chickens; 2. Brood or nest of (wild) ducks; 3. Sieve.

It is possible that in the past the same cosmonym was known in the Near East and North Africa (Volpati 1932: 195), though now the Persian-Arabic *Soraya* ('chandelier', i.e. a cluster of lamps) is the only word that is used for the Pleiades. The Touaregs call the Pleiades 'chickens' (Rodd 1926: 226). Because this cosmonym is lacking in ancient sources which are abundant at least for Italy (Volpati 1933a) and because it is connected only with the domestic hen, we can suggest a relatively late spread into Europe.

Cosmonyms that mean 'nest (or an egg, eggs) of a wild duck', or 'a flock of ducks' are typical for the Nenets (Khomich 1974: 232), Komi-Zyrians (Sviatski 1961: 120), Udmurts (Wichmann 1987: 214, 273), as well as for the Ob' Ugrians (Munkácsi 1908: 255; 1996; Steinitz 1966–1993: 1412, 1636). In Siberia and in Northeast Europe, a coincidence of this cosmonym with Uralic languages is noticeable, although there are a number of exceptions. Among the Selkup, the Pleiades are 'hare's shelves' or 'hare's droppings' (Tuchkova 2004: 212). The meaning of this name has been lost, and no parallels in other traditions are known. Among the Nganasans, the Pleiades are hunters who catch the souls of dead men and reindeer (Popov 1984: 48). The Enets name *Kondiku* (Dolgikh 1961: 24) either has no Samoyed etymology or else was greatly distorted when

it was recorded (Sorokina 2008). On the other hand, among the Khakas, who speak a Turkic language, the Pleiades are also ‘a duck’s nest’ or ‘a flock of ducks’ (Butanaev 1975: 238). The predominant position of the ‘duck’s nest’ among northern Russians (Potanin 1883: 730; Rut 1976: 15) is a clear legacy of the pre-Slavic sub-stratum. Moving to the east of the Urals, the Russians brought the ‘duck’s nest’ to Siberia. Citing Uno Harva, some authors claimed the existence of such an image among the Yakuts and the Kamchadals (Lundmark 1982: 105; Mladenova 2006: 196), but these statements result from a misunderstanding: Harva mistook the Russian cosmonym ‘duck’s nest’ for a translation of the Pleiades’ name from native languages (Harva 1933: 135). Maria Rut seems to have made a similar mistake discussing Enets’ materials (Rut 1987: 47).

A continuous and compact area of the ‘duck’s nest’, that is basically located inside the territory of the former spread of Uralic languages but crosses the language borders of both the Samoyeds and the Finno-Ugrians, allows us to suggest a connection of this cosmonym with some extinct people. If this people spoke a language of the Uralic family, no direct language descendents remained from this grouping.

The designation of the Pleiades as a ‘sieve’ is characteristic, as was mentioned, for the Eastern Baltic where it was recorded among ancient Prussians, Lithuanians, Letts, Livonians, Estonians, Votians, Finns (Allen 1899: 397; Andree 1878: 107; Ernits & Ernits 2009; Kerbelyte 2001: 65; Kuperjanov 2003: 183–185; Mándoki 1963: 519; Nepokupny 2004; Vaiškūnas 1999: 167; 2004: 169). There are no data on the Vepses while for the Saami the Pleiades are girls (Charnoluski 1930: 48; Lundmark 1982: 105). In the Middle Volga region ‘sieve’, as a name for the Pleiades, has been recorded among the Chuvash (Mándoki 1963: 520; Sirotkin & Ivanov 1970: 128; Iukhma 1980: 266; Zolotnitskii 1874: 22), Mari (AktSORIN 1991, No. 37: 83), Tatars (Potanin 1883: 729; Vorobiev & Khisamutdinov 1967: 316), Bashkirs (Maksiutova 1973: 383), and Udmurts (probably the southern groups only) (Nikonov 1973: 376; Wichmann 1987: 107). In the Volga region, the Mordvinians are the only exception, the Pleiades being for them a ‘beehive’ (Sviatski 1961: 121). Such an interpretation or variants, which are more or less similar to it (‘apiary’, ‘nest of wasps’), are also known to Russians, Ukrainians, Bulgarians, and Hungarians (Mladenova 2006: 115). Among Russians, ‘sieve’, as a name for the Pleiades, has been recorded in Vologda Province and among Russian migrants in areas beyond the western border of Russian ethnic territory (Rut 1987: 15; Sviatski 1961: 121).

Besides the Eastern Baltic and Middle Volga areas, ‘sieve’ is typical for Dagestan where it is recorded among the Kumyks, Laks, Avars, Andi, Dargins, and Tavli (Gamzatov & Dalgat 1991: 304–305; Potanin 1883: 729–730). Grigori Potanin found ‘sieve’ as a name for the Pleiades among the Kazakh of the Middle

Zhuz and among Astrakhan Tatars (Potanin 1881: 126; 1919: 84). A suggested Persian parallel (Nepokupny 2004: 80) is wrong: words *Parvin* ('the Pleiades', from the 'first') and *parvizan* ('sieve') do not share the same root (Steblin-Kamenski 2008). Among Chukchi and Koryak of the Asian North-East, W. Bogoras and W. Jochelson recorded cosmonyms *Ke'tmet* and *Kä'tmäc* (Bogoras 1939: 29; Jochelson 1908: 122) and translated them as 'small sieve', though at least among the Chukchi the basic image of the Pleiades was 'group of women' (Bogoras 1939: 24). A word similar to *Ketmet* really means 'sieve' (for washing salmon roe) though not in the Paleoasiatic but in the Yukaghir language (Mudrak 2008).

There are two basic, compact and large, areas for the Pleiades as 'sieve', the Eastern Baltic and the Middle Volga. Historically, they have in common a Baltic sub-stratum or Baltic influence (Napolskikh 1997: 158–161), and the Battle-Axe and Corded Ware cultures spread there in the earlier period (I do not here address the question whether there was a continuity between the bearers of these archaeological cultures and the proto-Balts). Later in the Volga region this cosmonym was transmitted from Finno-Ugrians to Turkic peoples.

'Sieve' may have reached Dagestan and Kazakhstan from the Volga region in times of the Golden Horde (Napolskikh's suggestion) though such a late diffuse spreading does not fit well a specific parallel between the Lithuanians and the Laks: the sky sieve was used by God to winnow cereal grains (Khalidova 1984: 160; Nepokupny 2004: 77). Unfortunately, the Lithuanian mytheme is known only from a literary source (Mickiewicz 1955, book 8: 434), from which it is not sufficient to draw reliable conclusions. The position of Hungarian materials is also unclear as although the Hungarian word *szita* for the Pleiades is borrowed from Slavic (Mándoki 1963: 519–520), the constellation in the sky is really viewed as something with openings (Zsigmond 2003: 434). The fact that the Hungarians are the only people in the Balkans who have this concept makes it doubtful that such an interpretation of the Pleiades was borrowed from the Slavic population of Pannonia. And if the Hungarians brought it from the East, what was the source? In Western Europe the cosmonym 'sieve' (*crivello*) is recorded only in the Alto Adige district of Northern Italy (Volpati 1932: 206; 1933b: 21). It deserves to be mentioned that *crivello* is both 'sieve' and 'shovel for winnowing grain'.

To sum up, the origins of 'sieve' as a designation of the Pleiades in Europe is far from obvious as it is not clear that all versions had a single source. But if we look at the names of the star objects in the pan-Eurasian perspective, the given cosmonym can be interpreted as a particular case of a more general and more widely known image, i.e. the conception of stars as openings.

There are Siberian parallels for this and not only the Paleoasiatic ones mentioned above. The etymology of the name of the Pleiades in Turkic languages (*Ulker*, *Yurker*, *Yurkar*, etc.) is disputable. According to one of the hypotheses, it is 'vent', 'to pierce' (Nikonov 1980b: 296). Anna Dybo, the leading specialist in Altai languages, does not consider this suggestion as substantiated (Dybo 2008). At the same time, it is supported for the Yakuts by a folklore text: the hero makes mittens of wolf skin to stop up holes in the sky from which the icy wind blows and these holes are the Pleiades (Holmberg 1927: 418). Among the Orochi and the Uilta of Sakhalin the Pleiades, in some cases, are also 'seven openings' (Podmaskin 2006: 432) though the 'seven women' are more usual for the Lower Amur region. No special narratives exist related to this name but the same word is used to denote the branchial openings of the lamprey (Pevnov 2008). Beyond Northern Eurasia, the conception of the Pleiades as stars surrounding an opening can be found among the Canadian Ojibwa (Speck 1915: 48). Given that there exist other Asiatic – North American parallels in mythology (Berezkin 2006), the historic connection between this image and the Siberian ideas is not excluded.

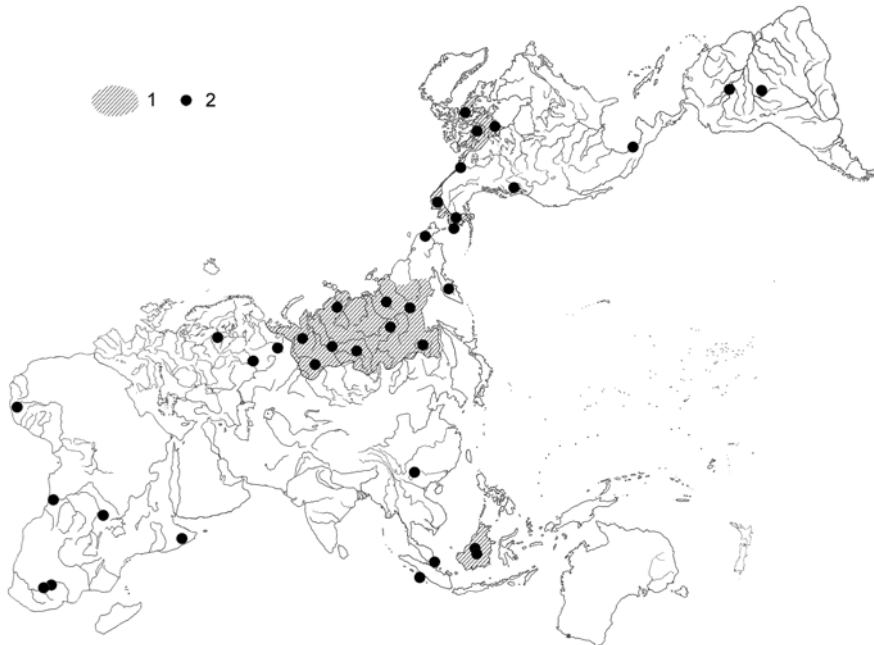


Figure 2. Areal distribution regarding the interpretation of stars as openings in the firmament. 1. Continuous distribution is probable. 2. Particular areas where the data have been received.

If we consider not just the Pleiades but any stars regarded as openings in the sky, such a motif is known in Africa, particularly in Liberia, Congo, Somalia and South Africa (Kapchits 1997: 15–16; Koekemoer 2007: 75; Mahieu 1975: 236; Pechuël-Loesche 1907: 135; Schwab 1947: 413; Sicard 1966: 42), in western Indonesia and Malaysia, particularly among the Malay, Mentawai, Klemantan and Kayan (Hose & MacDougall 1912: 142, 214; Schefold 1988: 71; Skeat & Blagden 1900: 5), and in Southern China among the Miao (Its 1960: 107). Nevertheless, the conception of stars as openings is predominant only in Northern Eurasia, in the American Arctic and possibly in Borneo (Fig. 2). As isolated cases it is recorded among the Estonians (Kuperjanov 2003: 125), Mari (Aktsorin 1991, No. 26: 59–60), Komi (Ariste 2005, No. 136: 163) and seems to be a norm among the Nenets (Neniang 1997: 214, 224; Khelinski 1982: 399), Nganasans (Popov 1984: 45; Simchenko 1996: 191), Khanty (Lukina 1990, No. 8: 67–69), Kets (Aleksenko 1976: 79; Dulzon 1966: 15–17; 1972: 83–86), Yakuts (Gurvich 1977: 199; Ergis 1967: 134), Evenki (Vasilevich 1959: 161–162; Voskoboinikov 1960: 296), Evens (Lamut) (Burykin 2001: 114), and Negidals (Pevnov 2008). Indirect or vague information of a similar nature exists for the Chukchi and Kamchadal (Ergis 1974: 134; Jochelson 1961: 71–74). In North America the concept of stars as openings is typical for the Arctic where it is registered among the Central Yupiq, including Nunivak Island, Inupiat, the Mackenzie Delta, Caribou, Netsilik and Iglulik Eskimo (Lantis 1946: 197; MacDonald 1998: 33; Nelson 1899: 495; Ostermann 1942: 56, 58; 1952: 128; Rasmussen 1930: 79). This fact should be considered in relation to a hypothesis of a separate origin of the Eskimo which was different from the origins of other American natives. The image of a particular star (usually Polaris) as an opening through which one can penetrate into the upper world is known to many American Indians, but the general conception of stars, as holes in the firmament, in North and South America is recorded only rarely and among groups isolated from each other such as Thompson River Salish, Totonac, Tucuna, and Tupari (Boas 1895, No. 4: 17–18; Caspar 1975: 188; Ichon 1969: 36; Nimuendaju 1952: 123–124). An absolute majority of American natives, as well as the peoples of Africa, Australia, Oceania and the Indo-Pacific borderlands of Asia, interpreted stars taken as a particular class of objects in only one way, i.e. as persons, spirits, living creatures of some kind.

THE MILKY WAY AS THE ‘PATH OF BIRDS’

The second cosmonym whose western limit coincides approximately with the border between Lithuanians and Poles is the designation of the Milky Way as the ‘path of birds’ (Fig. 3) or, more precisely, of migratory birds like geese,

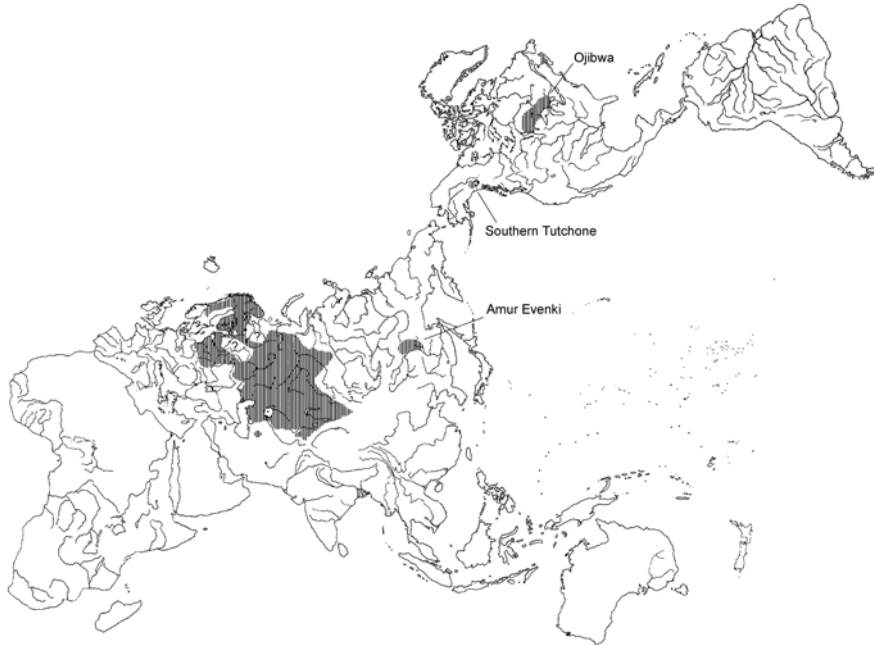


Figure 3. Areal distribution of the interpretation of the Milky Way as the path of migratory birds.

ducks, swans or cranes. Researchers sometimes see in the ‘path of birds’ a variant of a more general interpretation of the Milky Way as the ‘route of dead souls’ (Kuperjanov 2001). The two ideas are quite similar in meaning (Azimov & Tolstoi 1995: 118), but the cosmonym ‘path of birds’ is still specific enough and sometimes coexists as a distinct image with the ‘route of dead souls’ (Aikhenwald *et al.* 1982: 164). The area of its spread covers only part of the territory where seasonal migrations of birds occur as a particular theme in folklore traditions. The latter is elaborated e.g. among the native peoples of Alaska, North American Northwest Coast and some South American Indians (Berezkin 2007) but ‘path of birds’ is unknown to most of these groups.

‘The path of birds’ (‘path of cranes’, ‘birds’ path’, ‘trace of the route of birds’, etc.) is known mainly to peoples from three language families, i.e. Balts, Finno-Ugrians (but excluding Samoyeds) and Turks. These include the Letts and Lithuanians (Kerbelyte 2001: 57; Gładyszowa 1960: 77–78; Vaiškūnas 1999: 173), Livonians (Toivonen 1937: 123), Estonians (Pustylnik 2002: 268; Kuperjanov 2003: 150–151), Finns (Erdödi 1968: 110–111), Saami (Erdödi 1968: 111; Toivonen 1937: 123), Mari (Aktsorin 1991: 55–56; Erdödi 1968: 110; Vasiliev 1907: 12), Mordvin (Deviatkina 1998: 118), Chuvash (Ashmarin 1984: 26; Rodionov

1982: 168; Zolotnitskii 1874: 22), Volga Tatar (Vorobiev & Khisamutdinov 1967: 316), Bashkir (Barag 1987: 33; Rudenko 1955: 315), Udmurt (Erdödi 1968: 110; Moshkov 1900: 197; Potanin 1883: 740; Vereschagin 1995: 81), Komi (Erdödi 1968: 110; Napolskikh 1992: 6; Potanin 1883: 943), Kazakh (Karuts 1911: 35; Potanin 1881: 126–127; Sidelnikov 1962: 268), Kirgiz (Abramzon 1946: 65; Fielstrup 2002: 217, 227; Potanin 1881: 127), Karakalpak (Nikonov 1980a: 248). The Turkmen preserved a cosmonym ‘path of birds’ up to the middle of the 19th century (Nikonov 1980a: 248; 1980b: 293). The same cosmonym was known also to the Khanty and Mansi (Erdödi 1968: 109–110; Munkácsi 1908: 254; Napolskikh 1992: 8) and up to the 16th century to the Hungarians (Nikonov 1980: 248) who seem to have brought it from their eastern homeland. Another name for the Milky Way which is widespread among Ob’ Ugrians is ‘ski trace’, connected to the myth about the hunt of the sky elk (Erdödi 1968: 116). It is either the only or the most dominant name among Samoyeds and the peoples of Eastern Siberia, Lower Amur and Alaska. Among Ob’ Ugrians both names are found, but they are connected with different cycles of mythological ideas.

Russians call the Milky Way ‘path of geese’ in Vologda, Viatka, Perm, Tula, Smolensk, and Kaluga provinces and in Siberia (Gura 1997: 671; Rut 1987: 13), as do Belorussians in Polesie near Pinsk (Gura 1997: 658), and Ukrainians in Volyn’ near Lutsk (Chubinskii 1872: 15; Moshkov 1900: 205). In Southern Russia, across most of the Ukraine and among Southern Slavs this cosmonym is absent and thus its geographic spread suggests a borrowing by Slavs from a Finno-Ugric or Baltic sub-stratum, which may ultimately lead us to the same set of cultures, as does the concept ‘sieve’ applied to the Pleiades. At the same time, the areal coincidence of ‘sieve’ and ‘path of birds’ is not complete – the spread of the latter cosmonym is wider. It is important to add both Saami and especially Turks beyond the Volga region, i.e. the Kazakh, Kirgiz, Karakalpak and Turkmen. Nevertheless, not all Turks share this concept. The absence of the ‘path of birds’ among peoples of the Sayan-Altai region as well as among Uzbeks (and most probably Uigurs) makes it doubtful that this cosmonym had a proto-Turkic origin.

However the ‘path of birds’ is known to the Evenki of the Middle Amur area (Vasilevich 1969: 210) and in America to Algonkians who live to the north of the Great Lakes, in particular to the Ojibwa, including two groups near Lake Huron (Miller 1997: 60; Speck 1915: 79) and the Saulteaux (Hallowell 1934: 394). It is not clear if the materials of the Tutchone Athabascans, who live in Canada near the border with southern Alaska, are related to the same conception. Among the Southern Tutchone the Milky Way marks the path of the loon who had cured the blind hunter (McClelland 1975: 78).

Taken as a whole, the distribution of the ‘path of birds’ does not justify attributing the origin of this cosmonym to Balts or Turks. Finno-Ugrians most probably did know the ‘path of birds’ from early times, but the absence of this cosmonym among Samoyeds makes it unlikely that it can be attributed to the proto-Uralic. From another side, unless it emerged independently among the Evenki and the Algonkians, this concept must have appeared in Eurasia long before the split of Proto-Uralic into two major branches.

THE WATER-CARRIER ON THE MOON

The third cosmonym whose western limits in Europe coincide approximately with the border between Balts and Slavs is the ‘girl with pails on the Moon’ (Fig. 4). Two tales including this are widely known. According to one, the Moon takes pity on an orphan girl, a poor step-daughter, or the like, who was sent to fetch water and so the Moon takes her up to herself. According to the other, the Moon does this as punishment for a girl or young woman who was arrogant and boastful. Since then a figure of a girl with pails can be seen on the

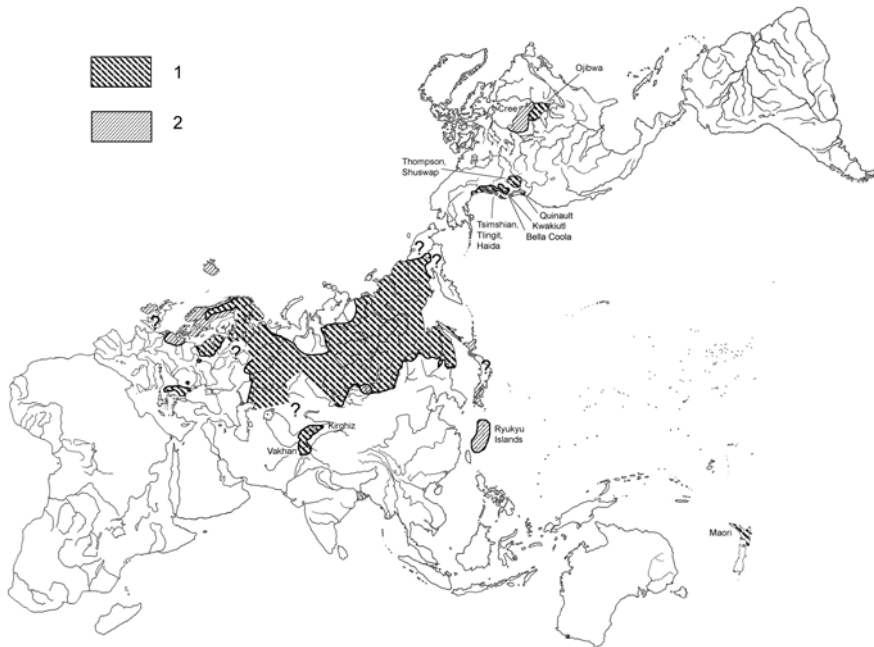


Figure 4. Areal distribution regarding the interpretation of spots on the Moon as of a figure of a person who went to fetch water and holds water pail in her or his hands. 1. Girl or young woman. 2. Two children, small boy, lad, man.

Moon. Among Balts and Baltic Finns, in particular the Lithuanians (Kerbelyte 2001: 70; Laurinkienė 2002: 365; Vaiškūnas 2006: 158), Letts (Pogodin 1895: 440), Livonians (Loorits 2000: 318), Estonians (Kuperjanov 2003: 72; Peebo & Peegel 1989: 282; Jüvä *et al.* 1995: 94), and Votians (Ariste 1974: 5; 1977: 175; Ernits & Ernits 1984: 579) one or both of these two variants are recorded together with other, more rare, explanations. For example among the Karelians the girl holds in her hands a milk-pail (Evseev 1981: 313). No details of the Vepsian 'legends' are provided by the source (Egorov 2003: 129). Among the Saami the Sun takes the girl to give her in marriage to his son and throws her onto the Moon where she is now seen with her yoke and pails (Charnoluski 1962: 68–79). In the Volga-Permian region the 'water-carrier on the Moon' is present among Komi-Zyrians (Ariste 2005, No. 109: 105; Limerov 2005, No. 58: 55–56), Komi-Permiaks (Konakov *et al.* 2003: 312), Udmurts (Potanin 1883: 776; Vereschagin 1995: 85–86; Vladykin 1994: 322), Chuvash (Ashmarin 1984: 25; Denisov 1959: 15–16; Vardugin 1996: 260; Egorov 1994: 120), Mari (AktSORIN 1991, No. 37–42: 83–87; Moshkov 1900: 197), Bashkirs (Nadrshina 1985: No. 6, 7: 12 13; Rudenko 1955: 315), Volga Tatars (Vorobiev & Khisamutdinov 1967: 314–315). In this area, the version with an orphan girl is widely known, while the version with the woman who made fun of the Moon is absent. Bashkirs and Tatars have the story of the Moon who carried away the girl because he fell in love with her. As with the 'sieve', the Mordvin present an exception – I could not find the motif of the 'water-carrier on the Moon' in their folklore. Among Russians the motif of the 'water-carrier as a poor orphan-girl' seems to be recorded only in the Viatka Province (Belova 2004, No. 1305: 521), while the motif of a young boy and girl who went after water and were looking at the Moon too intently was recorded in Arkhangelsk Province (Gura 2006: 462). These data concerning northern Russians are hardly exhaustive because this part of regional cosmonymy has never been the focus of research. The Ukrainian 'water-carrier on the Moon' was recorded only once, in Volyn' region (Gura 2006: 262), i.e. in the same area where the 'path of birds' was also present.

Just as was the 'path of birds', so 'the water-carrier on the Moon' in its 'poor step-daughter' version is present among the Kirgiz (Brudnyi & Eshmambetov 1968: 11–13) and the Kazakh. Kazakh materials were recently obtained in Ak Tüba Province (Stasevich 2006). Previously, Kazakh ideas about the spots on the Moon were not investigated, so the lack of data on the eastern groups of Kazakh, as well of Karakalpak, is not significant. From the Kirgiz the motif of a poor step-daughter who was sent to fetch water and was taken up onto the Moon may have spread to the Pamir region, where it is known at least to the Vakhan (Lashkarbekov 2005). 'The water-carrier on the Moon' (in its two variants 'poor step-daughter' and 'woman of indecent behavior') is recorded among

Siberian Tatars (Valeev 1976: 329; Urazaleev 2007: 4). The motif is neither known among the Northern Samoyeds nor among the Northern Selkup. Among the Southern Selkup it is a small girl who went to fetch water, or a young girl who teased the Moon (Golovnev 1995: 330–331; Pelikh 1972: 322–323). Among the Khanty it is a small girl (alone or together with a boy) who teased the Moon (Kulemzin & Lukina 1978, No. 4, 5: 15–16) and among the Mansi it is a girl with pails, explanations for this image seem to be lost (Ivanova 2009). Among the Ket the Moon was teased by a young girl or woman (Aleksenko 1976: 84). Among the Khakas the same story about a poor step-daughter was widespread, as also among the Kirgiz, Kazakhs (Butanaev 1975: 232). For the Altai region the motif is not typical. In only one of many narratives that describe how the ogre Tilbegen (Jelbegen, etc.) got to the Moon, the Moon took him when he went to fetch water and had a yoke and pails in his hands (Anokhin 1997: 5–6). Data on Shor and Tuviv are absent, and among the Tofa, the person who ended up on the Moon is an orphan boy sent to fetch water (Rassadin 1996, No 3: 10). In a tale of the Darkhats, who live in Mongolia near Khubsugul Lake, two boys went after water and ended up on the Moon (Nekliudov *et al.* 2007). Three texts with such a plot were recorded, one of them from an informant whose parents were Khalkha Mongolians but lived among the Darkhats of Khubsugul Aimak. In other areas of Mongolia the motif is unknown, and it seems that it is connected only with Siberia, not with Central Asia. The Khubsugul Darkhats relatively recently shifted to the use of the Mongolian language, and their culture is similar to that of Todzha Tuvins (Zhukovskaia 1980: 151). In the early 20th century the Darkhat shamans still used the Tuviv language to address spirits (Sanzheev 1930: 7).

Different groups of Buryats also seem to inherit the ‘water-carrier on the Moon’ from a pre-Mongolian sub-stratum. Among them this tale was recorded many times in a form which was near to the ‘poor step-daughter’: a girl’s step-mother or her own mother who married another man sends her to fetch water and expresses a wish that the Moon would take her (Galdanova 1987: 17; Khangalov 1958: 319; 1960: 14; Potanin 1883: 190–193; Sharakshinova 1980: 49–50). Among several groups of Yakuts (Aleksiev *et al.* 1995: 197–199; Gurvich 1948: 130; 1977: 199; Khudiakov 1969: 279, 372–373; Ovchinnikov 1897, No. 5–6: 179–181; Popov 1949: 260–261; Seroshevski 1896: 667; Tolokonskii 1914: 89), Evenki (Potanin 1893: 385; Rychkov 1922: 83–84; Vasilevich 1936: 73–74; 1959: 165; Voskoboinikov 1967: 159), and Lamut (Novikova 1987: 43–44), ‘water-carrier on the Moon’ is known mainly in its ‘poor step-daughter’ variant though in rare cases the motif of two children who looked at the Moon and were drawn to it is also recorded (Khudiakov 1969: 279). The ‘water-carrier on the Moon’, in a variant identical to the ‘poor step-daughter’ of the Evenki, is present among

the Negidal (Khasanova & Pevnov 2003: 55–56; Lopatin 1922: 330) and Nanai (Arseniev 1995: 152; Chadaeva 1990: 34–35; Lopatin 1922: 330) but not among peoples of Primorye and Sakhalin. This argues in favor of a connection of this motif in this region with Tungus and not with a pre-Tungus sub-stratum. More precisely, the Nivkh version of the ‘poor step-daughter’ exists but it was recorded recently (Turaev 2008: 186) and is absent among the materials of Sternberg or Kreinovich, so a late borrowing from Tungus groups is not excluded. The same image of a girl or a woman seen on the Moon and holding a pail or a scoop is, however, known to the Udihe (Podmaskin 1991, No. 17: 125) and was recorded among the Nivkh in the early 20th century (Ishida 1998: 24; Kreinovich 1973: 32–33). The Ainu of Sakhalin and Hokkaido see on the Moon a girl who went to fetch water and was taken by the Moon to become his wife (Pilsudski 1912, No. 3: 73–74; 1991, No. 3: 70–72) or who was envious and insulted the Moon accusing her of being idle (Ishida 1998: 24–25), or else the Ainu see in the lunar disc a boy who insulted the Moon in the same way (Batchelor 1927: 260). The motif of a woman seen on the Moon with pails in her hands (no other details) is known in southern Japan (Inoui 2005), while myths recorded on the Ryukyu Islands (Miyako and Okinawa) explain how a man with a water-pail ended up on the Moon (Nevski 1996: 267–269). In Northeast Asia the ‘poor orphan’ variant of the ‘water-carrier on the Moon’ is recorded among Yukaghirs (Nikolaeva *et al.* 1989, No. 2: 21–23) and among Russian-speaking dwellers of Markovo village who have Yukaghirs (the Chuvan) among their ancestors (Hakkarainen 1999). The ‘water-carrier’ is absent among Paleoasiatic peoples, though the Chukchi (Bogoras 1939: 22–23; Bogoras 1928, No. 2: 301–302), the Koryak (Beretti 1929: 36) and the Kamchadal (Porotov & Kosygin 1969: 33) have a less specific motif of a girl who ended up on the Moon.

One particular detail is typical of Siberian texts recorded among the Khakas, Tofa, Buryat, Ket, Selkup, Khanty, Yakut, and southeastern Evenki. When the water-carrier was being taken up to the Moon, he or she tried to hold a bush and is now seen on the lunar disc holding both the pails and the bush. The same detail is present among the Vakhan of Pamir and the Koryak. In the Koryak story (Beretti 1929: 36) there is no mention of pails, but the entire episode with a girl whom her evil step-mother drove to a river to fetch water is similar to the Yakut and Evenki variants. In Southern Siberia among the Teleut, Altai, and Khakas, this motif is not linked to the water-carrier motif, and it was an ogre who attempted to hold a bush to prevent being pulled up to the Moon.

We can summarize that the motif of a girl or young woman who went to fetch water and ended up on the Moon is widespread across Eurasia from the Eastern Baltic to the Sea of Okhotsk. Adjacent to this area, variants are found

in which either the motif of water to be fetched by a person is lost, or else the actors are a boy, a man, or two children instead of a girl. Nowhere in this periphery, with the exception of the Koryaks, does the Moon take the water-carrier up to the sky because he feels sorry for her. In addition to Mongolian, Japanese and Paleoasiatic materials, Scandinavian and Western European variants should be mentioned among the peripheral traditions. Thus in Ireland people saw on the Moon two boys who carried a stick with a pail of water on it (Krappe 1938: 120), while in Northern Germany it was a man with a pitcher in his hands, a child with a pail, a thief who carried two stolen pails with water, or two men who held yokes with water-tubs (Ishida 1998: 20–21; Krappe 1940: 168; Wolf 1929: 55–56). Also in Scandinavia, it was two children with a yoke and a pail (The Younger Edda 1970: 20) or two old men who tried to drown the Moon with water (Krappe 1938: 120).

It is of utmost interest that texts recorded beyond Eurasia are similar to the typical Eurasian variant of ‘woman insults the Moon’. In particular, ‘water-carrier on the Moon’ is known to most peoples of the Northwest Coast of North America and of the Fraser River basin in the adjacent Plateau area.

Tlingit. One of two girls says that the Moon is like her grandmother’s labret. Immediately the two girls are on the Moon. The one who insulted the Moon falls to earth and is shattered, while her friend is now seen on the lunar disc with a pail in her hand (Swanton 1908b: 453).

Haida. A woman goes to fetch water and points at the Moon, then imagines somebody sitting in the well and points at this figure. At night she gets thirsty, returns to the well, somebody grasps her hand and pulls her up. She tries to hold onto a bush of salal-berries and is now visible on the Moon carrying the bush and a pail (Swanton 1908a: 450–452).

Tsimshian (Ness River). A woman points at the Moon and at its reflection in the water. The Moon takes her to the sky while she is carrying a berry-bush. Now she is seen on the Moon with the bush and the water-pail in her hands (Boas 1916: 864).

Bella Coola. A woman with a pail of water in her hands is seen on the Moon (McIlwraith 1948: 225).

Oowekeeno. A little boy is crying, his sister puts him outdoors, and gives him a toy pail to play with. He keeps crying, she warns him that the Moon will take him away. The Moon descends and takes him, now he is seen on the Moon with a little pail in his hand (Boas 1895: 217; 2002: 457).

Kwakiutl (Newtee). The Moon descends to earth, asks for some water. A girl goes out with a pail, he abducts her. When he descends again to abduct another girl, the mother of the first one warns her about danger but she too comes out with a pail of water and is now seen on the Moon holding the pail in her hands (Boas 1895: 191; 2002: 409).

Shuswap. In winter time the Moon travels constantly. His wife asks where they are going to camp. The Moon suggests that she camp on his face. She jumps on it and is still seen there with her buckets and shovel, with which they melt snow (Teit 1909: 653).

Thompson. The Moon sends his sister to fetch water. Coming back she finds no place to sit and he suggests that she sit on his face. Now a woman with pails in her hands is seen on the Moon (Teit 1898: 91–92).

Quinault. The Moon was as bright as the Sun. Many girls desire him but he chooses the Frog. Now she is seen on the lunar disc holding a box with her property and a pail in her hands (Thompson & Egesdal 2008: 207–209).

In the latter three texts the motif of water-carrier typical for the Northwest Coast is combined with the motif, typical for the Salish, of a person, usually the Frog-woman, clinging to the face of the Moon and seen now as spots on the lunar disc.

Beyond the Northwest Coast the water-carrier is recorded among the Algonkians to the north of the Great Lakes. In a myth of Northern Ojibwa (Sandy Lake), a woman, sending her son to fetch water, warns him not to look at the Moon. The lad disappears and is now seen on the Moon holding a ladle and a pail (Ray & Stevens 1971: 81). This story was known to different groups of Swampy Cree with a difference that the boy is warned not by his mother but by his elder sister (Bird 2007: 36–37; Clay 1978: 28–33; Ellis 1995: 23–27, 29–33, 119). In an Ojibwa myth recorded to the north of Lake Superior a woman cooks maple syrup and pours it from one pail into another. When the Moon sees that she urinates on the same place, the Moon is offended and takes the woman to the sky. When the Sun, who was the Moon's husband, learned of this, he punished his wife, making her carry the woman eternally. Now the woman with a pail is seen on the Moon (Jones 1919: 637).

'Water-carrier on the Moon' is known to the Maori of New Zealand. As soon as Hina scooped water with her gourd vessel, clouds hid the Moon, Hina stumbled and water poured out. Hina scolded the Moon, the Moon seized her and Hina clutched at a bush. Now she is seen on the Moon with a bush and a gourd vessel in hands (Ishida 1998: 26). In another variant, it was a man, Rona by name, who ended up on the Moon (Reed 1999, No. 16: 190–192). In yet another version, Rona is the name of a woman (Dixon 1916: 87–88). It seems that the variant was predominant which had a female person ending up on the Moon. Some incomplete parallels for this myth are found on other Polynesian islands, and water containers are seen on the Moon together with a woman (Beckwith 1970: 220–221; Dixon 1916: 88; Williamson 1933: 100). Though New Zealand is extremely remote from Siberia, the ultimate sources of the Maori myth should be looked for at the probable Austronesian homeland in East Asia

because nothing of the kind is present in Melanesia and Indonesia. The motif of a bush grasped by a woman who came to the river and was pulled up to the Moon firmly links the Maori variant to those found among the Haida and Tsimshian, and among many Siberian peoples. To attribute the spread of tales with such specific details to the influence of the Europeans or to think that they emerged independently would be unrealistic.

CONCLUSIONS

Distributions of the three cosmonyms described above largely coincide. All three motifs are typical for the Eastern Baltic and Middle Volga region. In two cases out of three ('the Pleiades as sieve' and 'the water-carrier on the Moon') the southernmost of the Middle Volga groups, i.e. the Mordvin, is the only one in this region for which no data on these images are found. All these motifs are typical for some or for many of the northern Russian provinces and not typical for southern Russia or for the Ukraine except for a small enclave at Volyn'. It is clear that these motifs came to the Eastern Slavs from a sub-stratum population. Northern Samoyeds (Nenets, Enets and Nganasans) are not familiar with these three motifs while the Selkups, more precisely only the southern Selkups, have just one of them, the 'water-carrier on the Moon'. The 'path of birds' is known to all Finno-Ugrians and 'the water-carrier on the Moon' is known to most of them other than the Mordvin and the Hungarians. The 'path of birds' and 'the water-carrier on the Moon' are both present among Kazakh and Kirgiz, while the Altai-Sayan Turks lack them. Among the Kazakh of the Middle Zhuz, 'sieve' is recorded as a name for the Pleiades. To the east of the Yenisei River only the motif of the water-carrier on the Moon is widespread, and among the Yakut, Evenki and Buryat it was recorded many times. However, considering 'sieve' as a particular variant, applied to the Pleiades, of the motif of 'stars as openings in the firmament', the 'sieve' still connects Eastern Europe with Siberia. In addition, 'the path of birds' was also known to the Amur Evenki. The Algonkians to the north of the Great Lakes have 'the path of birds' and 'the water-carrier on the Moon', and also a possible parallel for the image of the Pleiades as an opening in the sky. 'The water-carrier on the Moon' is also typical for Indians of the Northwest Coast and for the Salish in the southern Northwest Coast and northern Plateau areas. Taking into consideration the complete absence of such motifs among American Indians who lived farther to the south than the Salish and the Ojibwa, the Siberian source of these images is plausible. If so, we have to push the dating of their spread in Eurasia back to the Early Holocene at the latest.

When the ice caps melted, peopling of the northern territories of Eastern Europe came mainly from the south. Archaeologists trace the first post-glacial cultures of the Eastern Baltic back to the Final Paleolithic Swiderian culture and this conclusion corresponds well to data from craniology and population genetics (Niskanen 2002: 144–147). The spread of some mythological motifs also fits such a scenario (Napolskikh 1990). However, the areal patterns of the motifs reviewed above make us suggest that there was also some migration taking place from the East. Even if the Evenki and Algonkian data concerning ‘the path of birds’ are ignored and the motif of stars as sky-openings is not considered specific enough, the pattern of the spread of the ‘water-carrier on the Moon’ makes the hypothesis of trans-Eurasian migration plausible. Remembering the detailed American and Polynesian parallels for the Eastern and Southern Siberian variants, the Northern Eurasian East, rather than the West should be suggested as the earliest zone of the spread of this motif. The Bulgarian-Macedonian enclave of the ‘water-carrier’ clearly cannot be a source for Siberian, not to speak of Amerindian and Polynesian myths, and Bulgarian materials rather demonstrate the existence of some late Baltic-Balkan links.

To determine the origins of the ‘water-carrier on the Moon’ in the Balkans it would be desirable to compare the Bulgarian-Macedonian materials with Serbian ones. Unfortunately, Serbian interpretations of the spots on the Moon are of late origin and include only variants typical for most of the Christian Europe (Janković 1951: 108–109). A version which is specific to Bulgarian variants (a boy and a girl come to a well and end up on the Moon) is found elsewhere only among Northern Russians (Gura 2006: 462). The Macedonian case (the Moon saves a poor stepdaughter who now stands on the Moon with two pails of water) is close to Lithuanian, Estonian and Middle Volga versions.

During the Final Pleistocene – Early Holocene, more detailed ideas about the objects of the night sky had probably been forming in Northern and Central Eurasia. From Eurasia the corresponding ideas were brought to North America. In the Indo-Pacific borderlands of Asia, in Australia, South and Central America the cosmonymy had developed independently and does not demonstrate parallels with North Eurasian – North American set of images and plots, while in sub-Saharan Africa its development had been minimal. As new images in Siberia and Eastern Europe did not displace earlier ones but were added to them, a minimal number of small groups of migrants from the East was probably enough for spreading the new cosmonymy across most of Eurasia. If such migrants were forest hunters and fishermen, the natural limit of their western spread had to be the Baltic Sea. I think that this is the ultimate reason for differences between sets of cosmonyms in the Eastern Baltic area and in Central Europe.

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COMMENTS

¹ The database for the work is the electronic catalogue of world mythology and folklore. Abstracts in Russian and sources of texts see at <http://www.ruthenia.ru/folklore/berezkin>. English wordings of the mythological motifs and maps of motifs' areal distribution are at <http://starling.rinet.ru/kozmin/tales/index.php?index=berezkin>

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