

Монголын палеонтологи сэтгүүл

Re-description of the holotype of *Parapresbytis eohanuman*, a pliocene fossil colobine monkey from Mongolia

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**ПАЛЕОНТОЛОГИЙН ХҮРЭЭЛЭН
Шинжлэх Ухааны Академи**

We re-found the holotype (PIN 3381-235) of a Pliocene fossil monkey *Parapresbytis eohanuman* (Mammalia, Primates, Cercopithecidae, Colobinae), which had been collected from the Shaamar fossil locality (Selenge Aimag, northern Mongolia), at Institute of Paleontology, Mongolian Academy of Sciences, Ulaanbaatar, Mongo-
lia. This specimen is now stored in this institute. Here, we provide precise photos of this holotype with some re-
marks. It is a fused mandibular corpus with a complete left and right dentition, lacking left and right ascending rami. Its ventral part is crushed and broken.

INTRODUCTION

Parapresbytis eohanuman (Borissoglebskaya, 1981) is a fossil colobine monkey found in northern Mon-
golia and southern Siberia (Kalmykov and Maschenko, 1992, 1993, 1995; Jablonski, 2002; Maschenko, 2003, 2005; Kalmykov et al., 2005; Egi et al., 2007; Takai and Maschenko, 2009). It is the “northernmost colobine mon-
key” (Takai and Maschenko, 2009). It was originally de-
scribed by Borissoglebskaya (1981) as a new species of a living genus, *Presbytis eohanuman*. Later, it was assigned

to the new genus, *Parapresbytis*, by Kalmykov and Maschenko (1992). The holotype of this species is PIN 3381-235, which was collected from the Shaamar fossil locality, northern Mongolia. This holotype was said to be stored in Paleontological Institute, Russian Academy of Sciences, Moscow, Russia (Borissoglebskaya, 1981).

However, its whereabouts has been unknown until recently. We re-found this holotype at Institute of Paleontology, Mongolian

Academy of Sciences, Ulaanbaatar, Mongolia. Because this specimen is important not only for paleontology but also for primatology and physical anthropology, here we provide its precise photos with some remarks.

Abbreviations—**PIN**, Paleontological Institute (Russian Academy of Sciences, Moscow, Russia) Number. **i**, lower incisor. **c**, lower canine. **p**, lower premolar. **m**, lower molar.

SYSTEMATIC PALEONTOLOGY

Class Mammalia Linnaeus, 1758

Order Primates Linnaeus, 1758

Family Cercopithecidae Gray, 1821

Subfamily Colobinae Blyth, 1875

Genus *Parapresbytis* Kalmykov and Maschenko, 1992

Type and only known species—*Parapresbytis eohanuman* (Borissoglebskaya, 1981) Kalmykov and Maschenko, 1992.

Parapresbytis eohanuman (Borissoglebskaya, 1981) Kalmykov and Maschenko, 1992

Figures 1–5

Synonymy - *Presbytis eohanuman* Borissoglebskaya, 1981.

Holotype - PIN 3381-235, a fused mandibular corpus with a complete dentition.

Repository of the holotype - PIN 3381-235 is now stored in Institute of Paleontology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia.

Type locality - Shaamar (Shamar), Selenge Aimag, northern Mongolia (Borissoglebskaya, 1981).

Age - “Mid” to late Pliocene (Maschenko, 2005; Takai and Maschenko, 2009).

Distribution - Transbaikalian area (northern Mongolia and southern Siberia), northeastern Asia (Maschenko, 2005; Takai and Maschenko, 2009).

Dental measurements - Shown in Table 1. The measurements were taken to the nearest of 0.01 mm using a digital caliper (Mitutoyo Point Caliper 573-621 [NTD12-15PMX]) and are rounded off to the one decimal place (in mm).

Remarks on the holotype - PIN 3381-235 is a fused mandibular corpus with a complete dentition (left and right i1–i2, c1, p3–p4, and m1–m3), lacking left and right ascending rami. Its ventral part is crushed and broken. The dentition is well preserved. The c1 is slightly larger than i1 and i2. The i1 is more worn than i2. The i2 is more worn than c1 and p3. The p4 is more worn than p3. The m1 is more worn than p4 and m2. The m2 is more worn than m3. The part of the digastric fossa is crushed and broken.

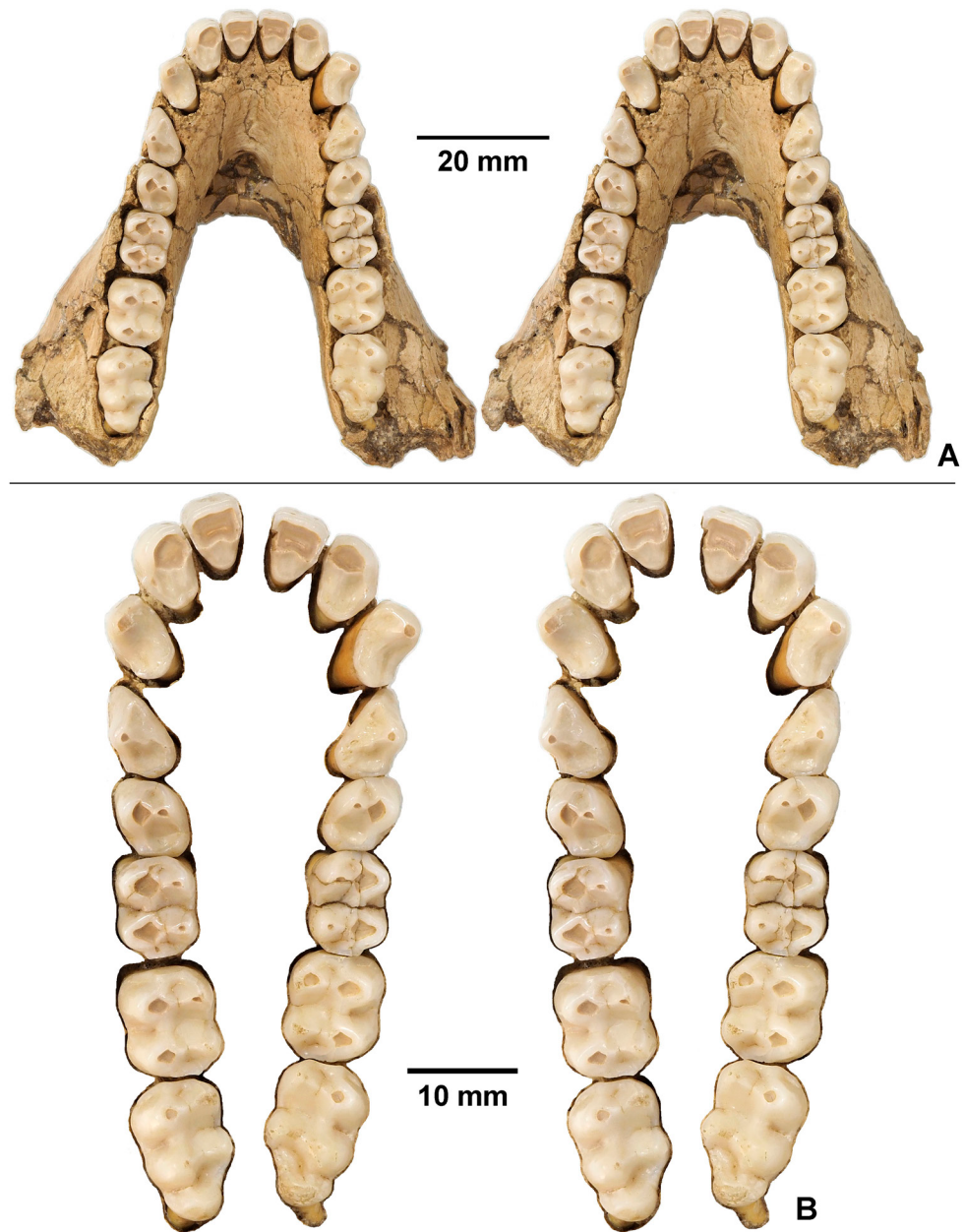


FIGURE 1. *Parapresbytis eohanuman* (Borisoglebskaya) from the Pliocene of Mongolia, PIN 3381-235 (holotype), occlusal (dorsal) view (stereo pair). A, mandible with teeth. B, left and right dentition.

(Figure size: [W 148 mm x H 69 mm])



FIGURE 2. *Parapresbytis eohanuman* (Borisoglebskaya) from the Pliocene of Mongolia, PIN 3381-235 (holotype), mandible with teeth, occlusal (dorsal) view.

(Figure size: [W 148 mm x H 142 mm])



FIGURE 3. *Parapresbytis eohanuman* (Borisoglebskaya) from the Pliocene of Mongolia, PIN 3381-235 (holotype), mandible with teeth, ventral view.

(Figure size: [W 148 mm x H 140 mm])

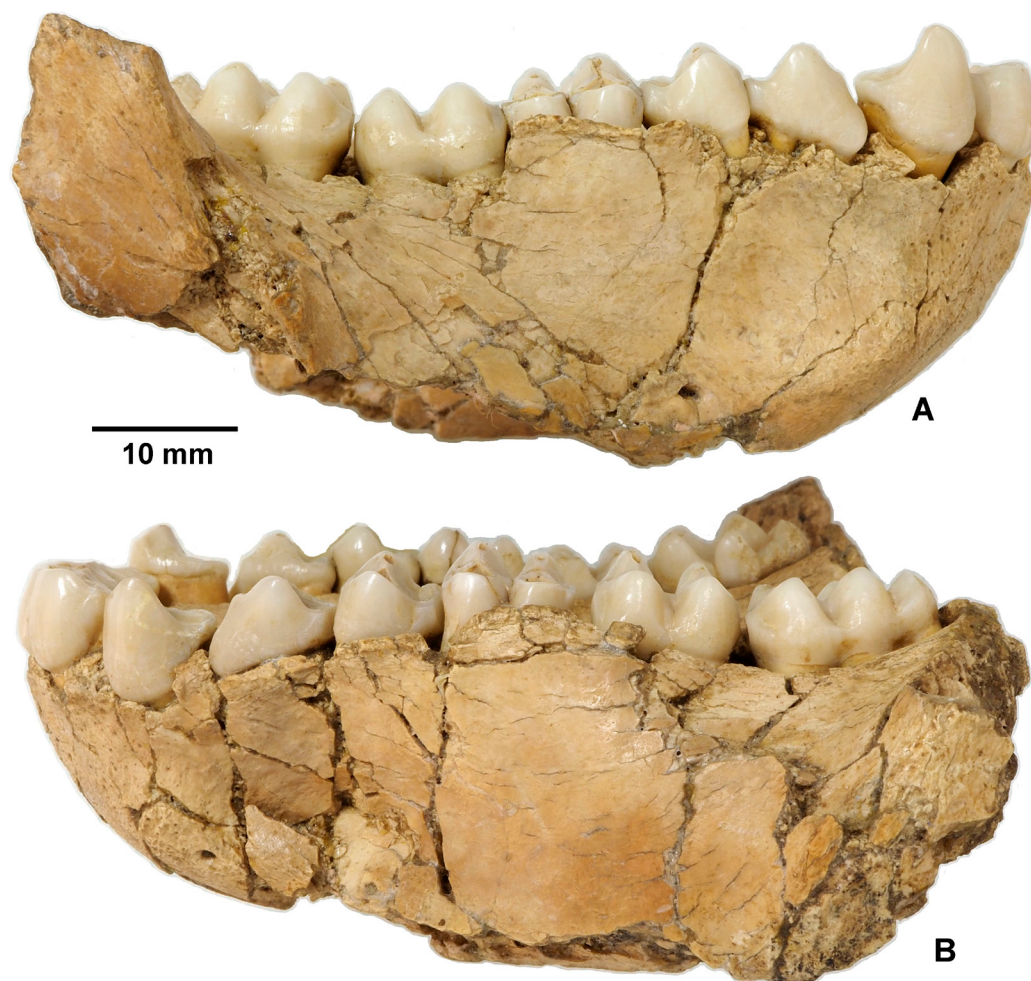


FIGURE 4. *Parapresbytis eohanuman* (Borisoglebskaya) from the Pliocene of Mongolia, PIN 3381-235 (holotype), mandible with teeth, lateral views. A, right lateral view. B, left lateral view.

(Figure size: [W 148 mm x H 140 mm])

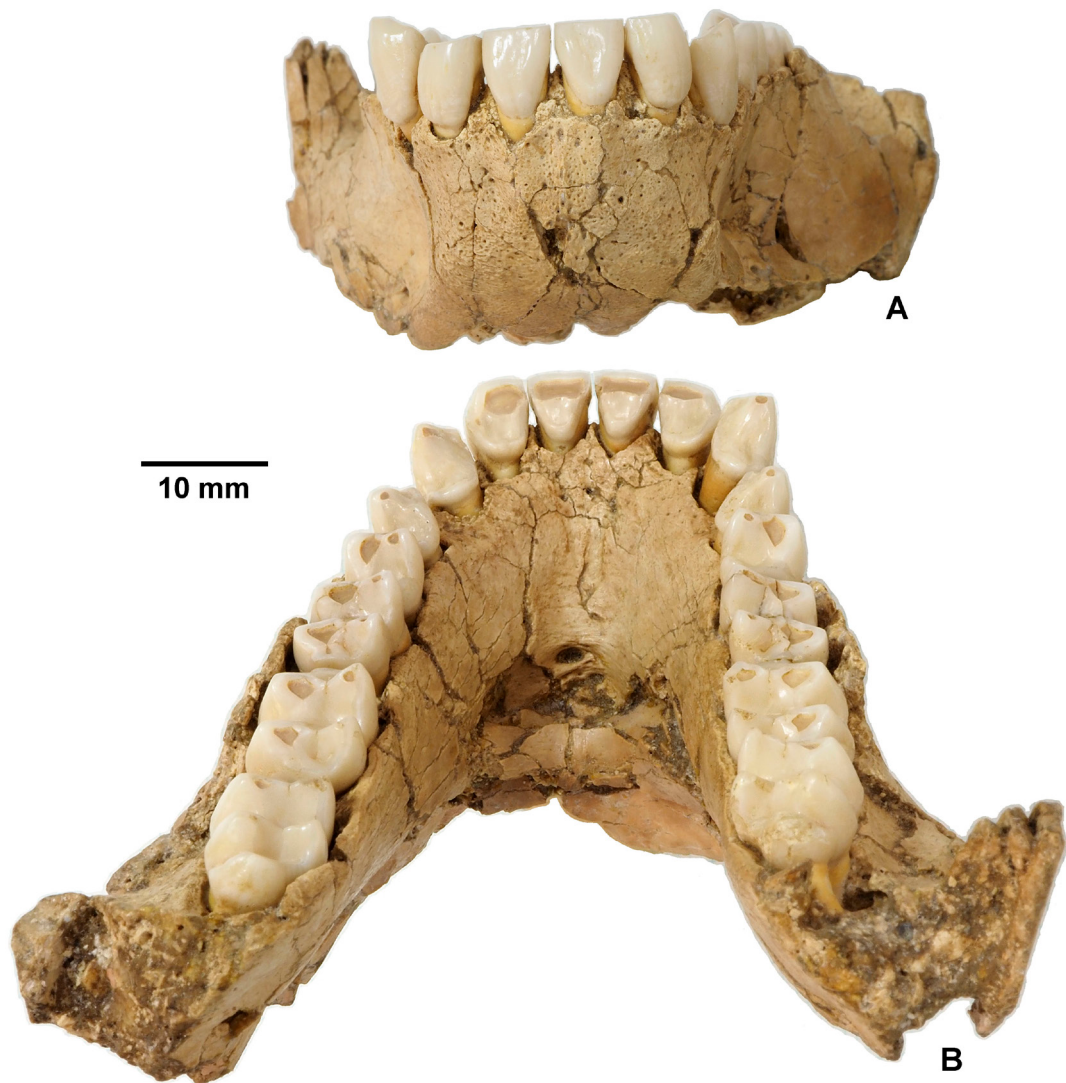


FIGURE 5. *Parapresbytis eohanuman* (Borisoglebskaya) from the Pliocene of Mongolia, PIN 3381-235 (holotype), mandible with teeth, anterior and postero-dorsal views. A, anterior view. B, postero-dorsal view.

(Figure size: [W 148 mm x H 152 mm])

TABLE 1. Dental measurements (in mm) of the holotype (PIN 3381-235) of *Parapresbytis eohanuman* (Borisoglebskaya). *L*, mesiodistal length; *W*, buccolingual width; *W-trd*, buccolingual width of the trigonid; *W-tad*, buccolingual width of the talonid.

PIN 3381-235		Left side	Right side
i1	<i>L</i>	5.4	5.4
	<i>W</i>	7.7	7.9
i2	<i>L</i>	5.7	5.7
	<i>W</i>	8.3	8.3
c1	<i>L</i>	8.6	8.6
	<i>W</i>	5.7	5.6
p3	<i>L</i>	9.7	9.8
	<i>W</i>	5.2	5.4
p4	<i>L</i>	7.1	7.1
	<i>W</i>	6.4	6.3
m1	<i>L</i>	9.4	9.7
	<i>W-trd</i>	7.5	7.6
	<i>W-tad</i>	7.3	7.5
m2	<i>L</i>	10.3	10.4
	<i>W-trd</i>	8.9	8.8
	<i>W-tad</i>	8.8	8.8
m3	<i>L</i>	13.4	13.5
	<i>W-trd</i>	8.6	8.5
	<i>W-tad</i>	8.3	8.4

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