

# Un-manned Satellites on Postage Stamps : 34

By Guest Contributors Don Hillger and Garry Toth

## The Nadezhda Series

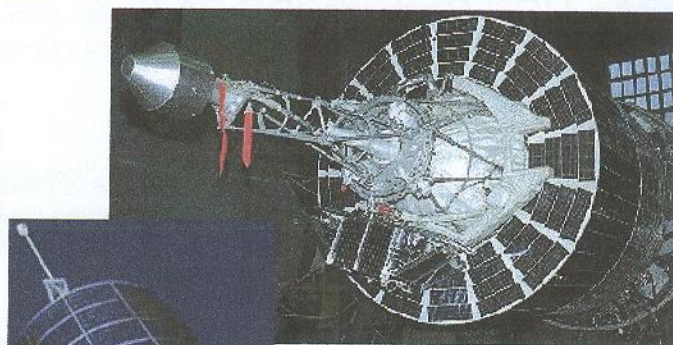
This is the thirty-fourth in a series of articles about un-manned satellites on postage stamps. This article features the satellites in the Russian **Nadezhda** civil navigation series. The first Nadezhda was launched in 1989 and the series includes seven numbered satellites launched as of 2009.

The Nadezhda satellites are included in this series of articles because they carry transponders for the **COSPAS** (COsmicheskaya Sistyema Poiska Avariynich Sudov [Space System for the Search of Vessels in Distress]) system, the Russian counterpart of the **SARSAT** (Search and Rescue Satellite-Aided Tracking) system on NOAA's polar-orbiting and geostationary satellites. (See reference at end of article) Appropriately, Nadezhda means "hope" in Russian. These two programmes are an interesting example of Russian-American cooperation.

The Nadezhda satellites are cylindrical, 2m in diameter and 2.1 m long, with an extended boom on one end and one or two much smaller striped conical omni-directional antennas on the other end. Although the series began officially with Nadezhda-1 in 1989, three Nadezhda prototypes were launched as part of the Kosmos series in 1982, 1983, and 1984, as Kosmos-1383, 1447, and 1574 respectively.

Nadezhda is featured on a limited number of postal items, a couple of which show the Nadezhda-like satellites, Kosmos-318 and 381. These two (also named Ionosfernaya-1 and 2 respectively) lacked the omni-directional antennas of the Nadezhda series necessary for the COSPAS/SARSAT programme. Images of those antennas are generally not included in the various postal items depicting Nadezhda, but are clearly seen in the Cambodian souvenir sheet (*Scott 875*) and Canadian souvenir sheet (*Scott 2111*). For the purposes of comparison, the interested reader will find a close-up view of such a conical, barber-pole-striped antenna on a stamp from Togo (*Scott C344*) as a detail of the Venera-1 satellite featured on that stamp.

A checklist of postal items identified as showing the Nadezhda-series satellites (<http://rammb.cira.colostate.edu/dev/hillger/Nadezhda.htm>) is available as part of the Website developed by the authors to accompany this series of articles (<http://rammb.cira.colostate.edu/dev/hillger/satellites.htm>). E-mail correspondence with the authors is welcome. Don

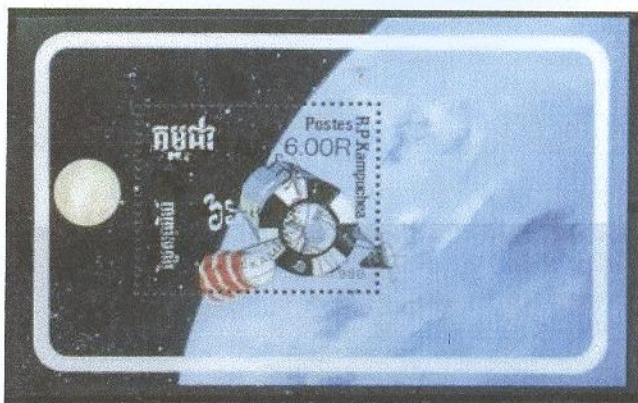


Photos ex Encyclopaedia  
Astronautica :  
[www.astronautix.com](http://www.astronautix.com)

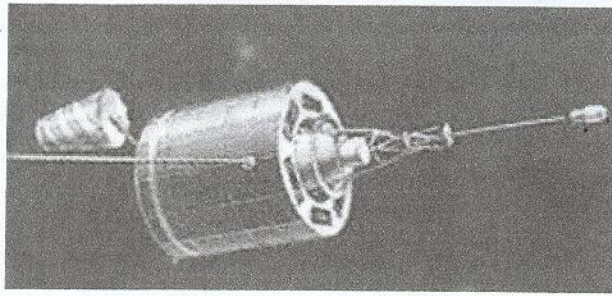
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### Reference

Hillger, D., and G. Toth, 2007: Saving lives with satellites, *Topical Time*, 58(3), (May/June), 41-43.



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# Nadezhda-series satellites

Country	Catalog Number*	Type of Item**	Year of Issue	Notes on Content
<b>Nadezhda (Russia/USSR)</b>				
Cambodia	782 (Mi160)		1987	Also COSPAS/SARSAT <sup>3</sup>
Cambodia	875 (BL196)	SS1	1988	Two conical antennas <sup>2</sup> ; also COSPAS/SARSAT <sup>3</sup>
Canada	2111a (Mi2280)	Two stamps and in (upper-right) margin of MS8 (2111 (2x 2111 (a-d)))	2005	Two conical antennas <sup>2</sup> ; also COSPAS/SARSAT <sup>3</sup>
Canada	2111a-d fdc (Mi2280-2283 fdc)	One stamp of strip of 4 on FDC		
Czechoslovakia	1875 (Mi2133)		1973	Kosmos-318/381 <sup>1</sup>
Romania	None	Cancel on cover	1988	Kosmos-318/381 <sup>1</sup>
Russia (USSR)	5603 (BL196)	On stamp and in (right) margin of SS1	1987	Also COSPAS/SARSAT <sup>3</sup>
Russia (USSR)	None	Stamped envelope	1987	Tiny depiction; also COSPAS/SARSAT <sup>3</sup>

