



Krasnoyarsk region



REPORT

Deputy head of the regional authority
State Advisor of the Russian Federation 3 classes
V. Tereshkova

The topic:

«The practical use of automated information
System operational search and rescue using the
resources of space search engine emergency vessels
and aircraft in the Krasnoyarsk region»

Krasnoyarsk

Orbital Grouping System COSPAS-SARSAT



6 Satellites in polar orbit
5 satellites in geostationary orbit

Rescue people in emergencies

Currently, the number of rescued using the COSPAS-SARSAT system - more than 27 thousand people

In 2000, COSPAS-SARSAT Council decided on the extension of the system for personal buoys. (PWB).

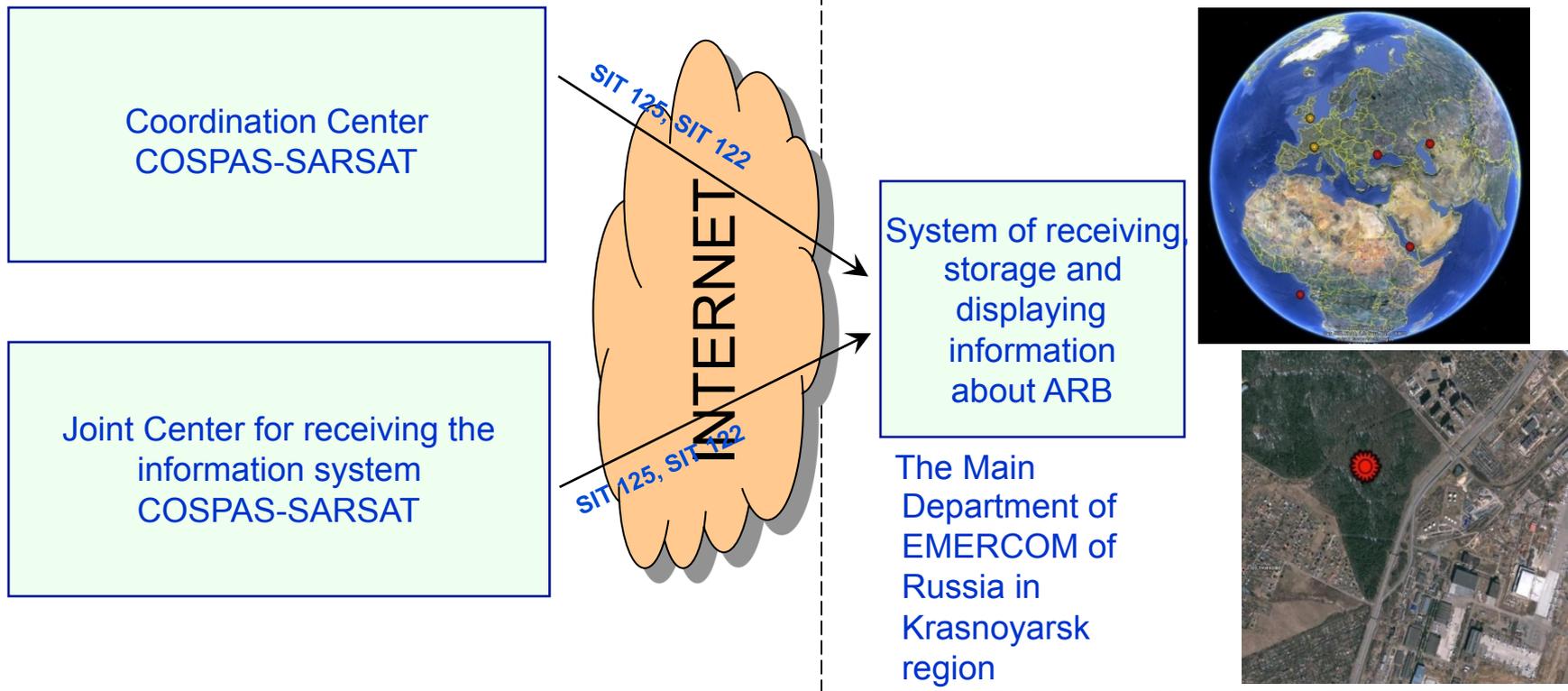
Currently, over 12 countries have adopted the necessary laws governing the use of PWB.

The number of saved using PWB in 2010. It amounted to 10% of the total number of rescued



For Russia, which has about 60% of the territory without reliable and affordable communication, use PWB is one of the urgent tasks for the rescue of people in emergency situations

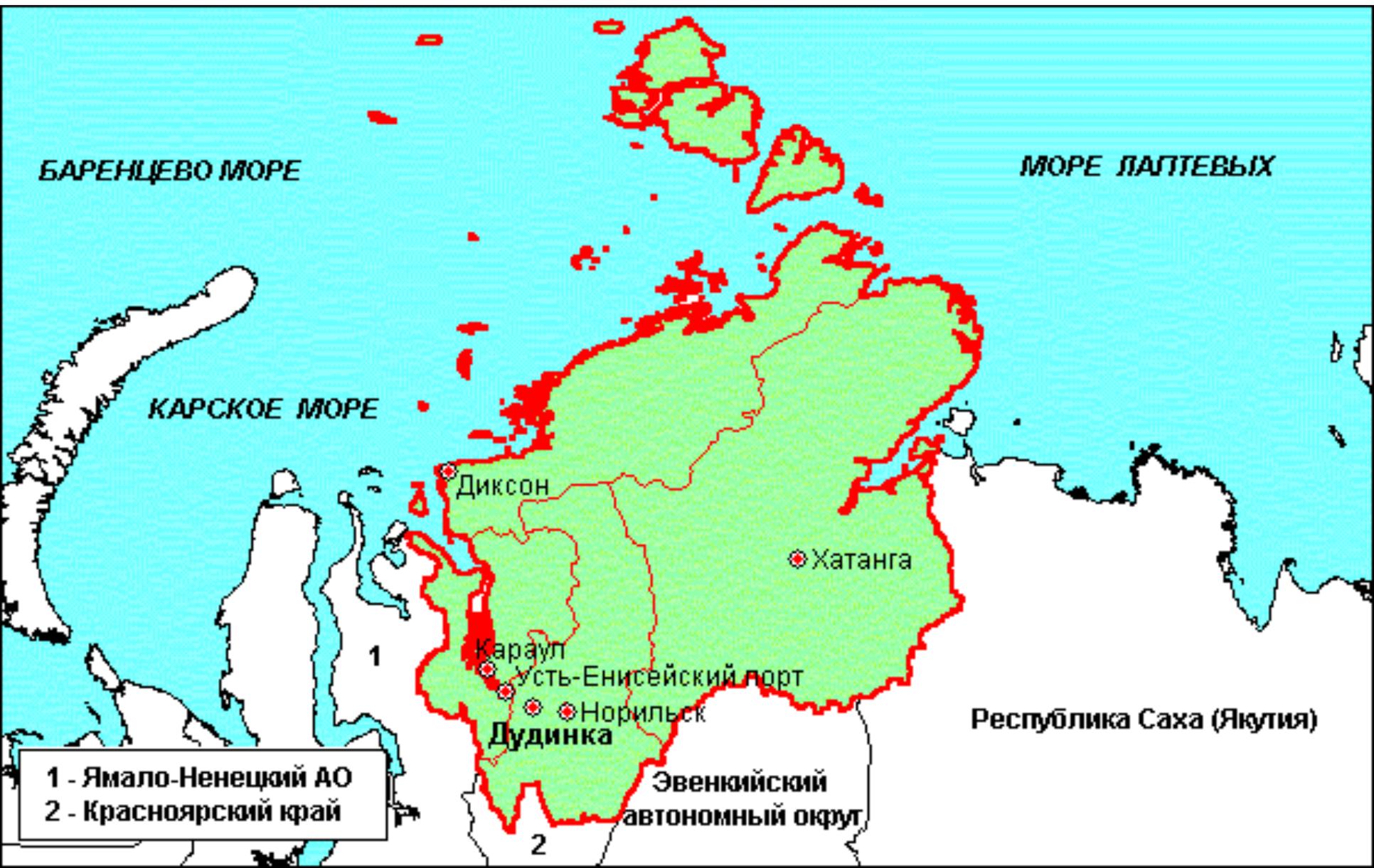
Transmission and display of information from the ARB COSPAS-SARSAT in the Main Department of EMERCOM of Russia in Krasnoyarsk region



- Reporting of messages about ARB in the Main Department of EMERCOM of Russia in Krasnoyarsk region on the dedicated Internet channel technology, adopted by the COSPAS-SARSAT system;
- Receiving and storage information from the ARB database;
- Operational display on a map the location of the ARB.

Geographical position

Arctic zone of the Siberian region



ALARM COSPAS-SARSAT SYSTEM

Training SME "Irresistible" m.Chelyuskin 25.07.2010

ALARM COSPAS-SARSAT SYSTEM

Transfer time: 25.07.2010 22:04 UTC

From: MKVTS RUSSIA

To: SRP (MSS) RUSSIA

- 1. Ambiguity resolution coordinates**
- 2. Number of posts: 16581 the ARB ID: 223637D5BF81FE0**
- 3. Detected: 25.07.2010 22:00 UTC IC3: SARSAT S09**
- 4. Frequency: 406,0275 MHz**
- 5. Country the ARB registration: 273 / Russian Federation**
- 6. User class: PWB - SERIAL NO: 028587**
- 7. Alarm code: 2**
- 8. Coordinates: Ambiguity resolution - 77 41 '36' 'N 104 27 28 ' 'V.D.- from a geostationary satellite
1st of Doppler - 77 25 '08' 'N 109 46 '03' 'E. The probability of 80% - from the low-flying satellites;
2nd of Doppler - NO 0% probability
GPS-GLONASS-Galileo coordinates - 77 41 '36' 'N - 104 27 '28' 'V.D.- from geostationary sputnika- final report**
- 9. GPS-GLONASS-Galileo coordinate obtained from: INTERNAL DEVICE- from Parbo**

Information from the registration database:

- 1. Name of owner: Siberian Regional Emergency Center of Russia (Tereshkov Valery Ilich was born in 1955, a passport is issued 0403937278 02.02.2008, the railway police department of Krasnoyarsk, Krasnoyarsk Territory, blood type III +)**
- 2. Address: Krasnoyarsk, ul. Matrosov 42.**
- 3. Contact us in case of emergency: 83912273438.**
- 4. Note: The test registration**

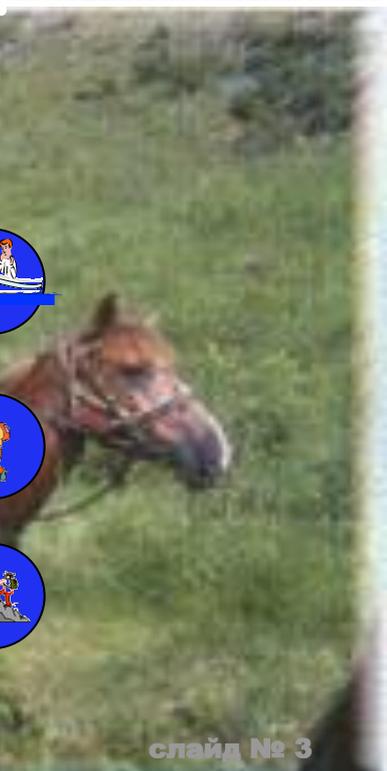
Information materials software tourist routes in KRASNOYARSK REGION

	All trails	Hiking trails	Equestrian and hiking trails	Mountaineering	Water trails
Krasnoyarsk region	23	11	2	1	9



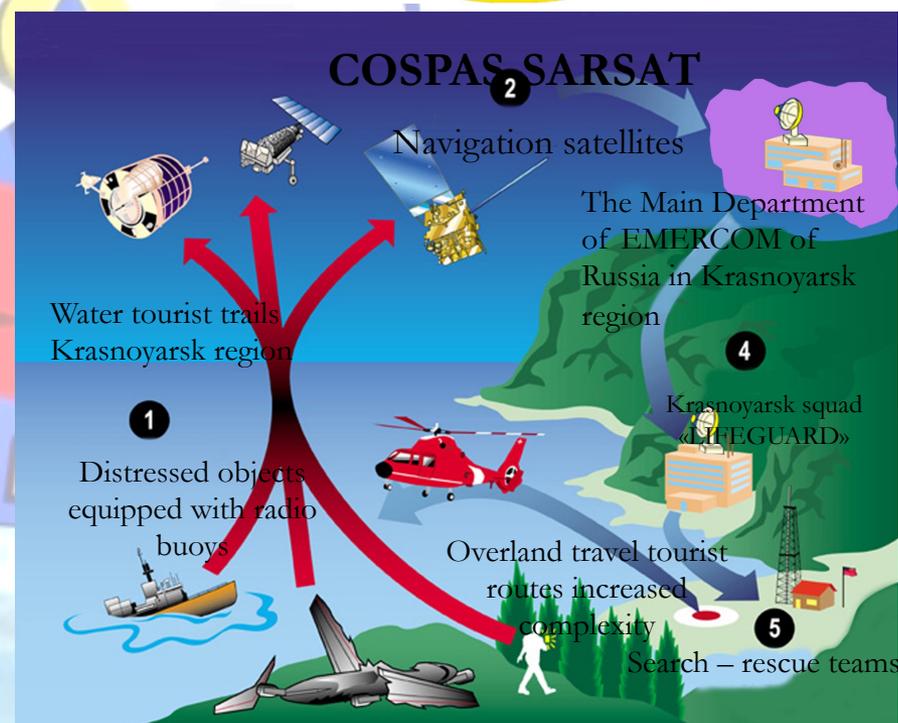
Conventions:

-  - Hiking trails
-  - Water trails
-  - Equestrian and hiking trails
-  - Mountaineering

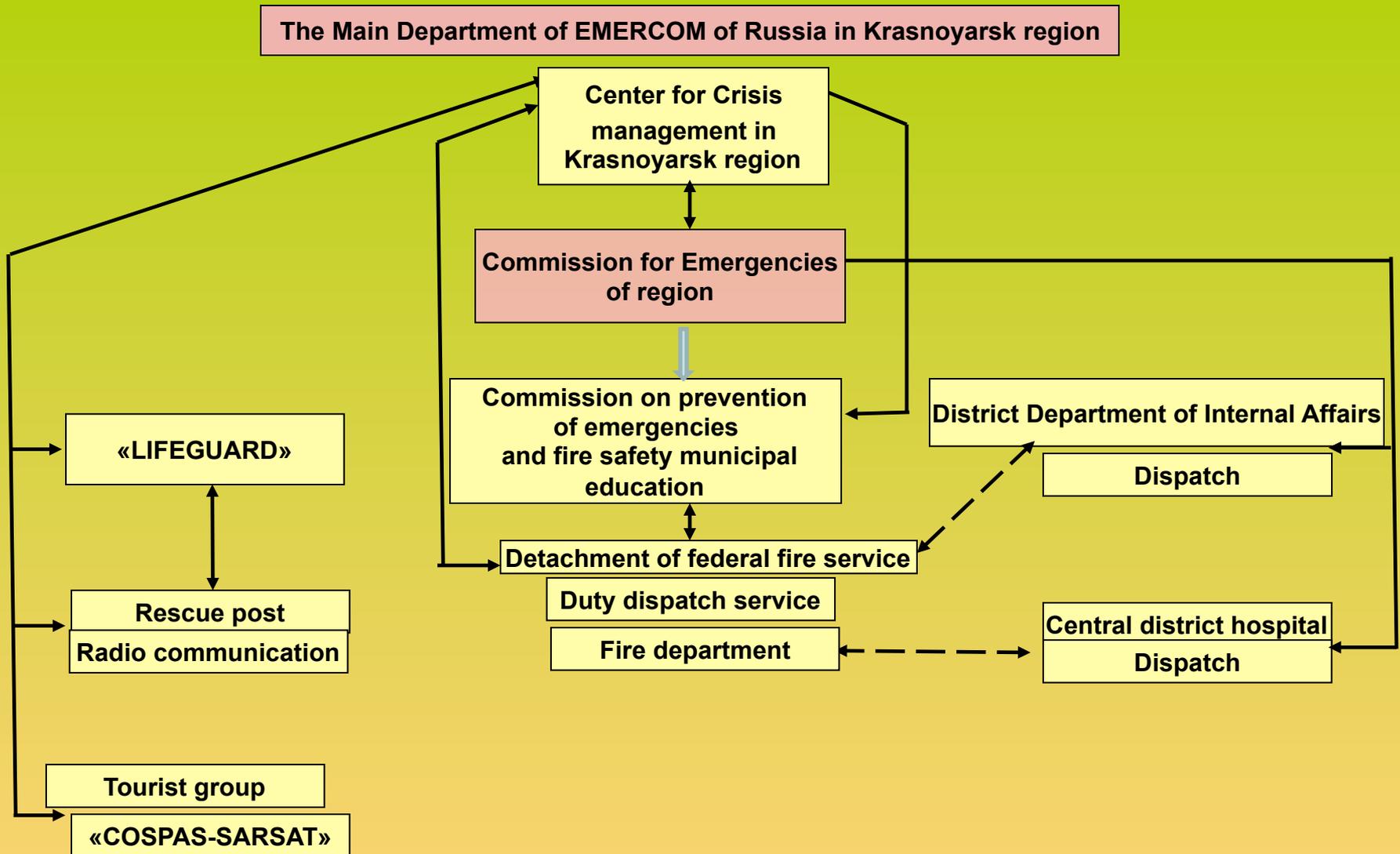


APPLICATION OF NEW TECHNOLOGIES IN PROVIDING SECURITY TOURISM ACTIVITIES, WITH USE OF SYSTEM RESOURCES COSPAS-SARSAT

- Space System for Search of Vessels in Distress (COSPAS-SARSAT) is designed for the detection of ships, aircraft and persons in distress anywhere in the world, receiving an alarm message and identify with a given precision coordinate disaster site in order to significantly (up to 10 times) reduction of the time of the search operations as compared with traditional methods.
- For the Krasnoyarsk region has a large number of tourist routes of high complexity, sparsely populated areas and large water area of rivers, lakes, creating an effective system search and rescue is important.



CONCEPT OF INTERACTION AND MANAGEMENT IN SEARCH OF MISSING TOURISTS IN KRASNOYARSK REGION



The results of the system
COSPAS-SARSAT from 1982 to 2014

	The Title	Number
1	Number of people saved since 1982	>37000
3	Number of low-orbit satellites with 406 MHz processors	6
4	Number of geostationary satellites with transponders ARB-406	5
5	The number of ground stations for low-orbit satellites	57
6	The number of ground stations for geostationary satellites	21
7	The number of national centers	30
8	Number ARB-406	1150000
9	The number of search operations since 1982	8868
10	The number of countries and organizations participating	41



Krasnoyarsk region



REPORT

Deputy head of the regional authority
State Advisor of the Russian Federation 3 classes
V. Tereshkova

The topic:

«The practical use of automated information
System operational search and rescue using the
resources of space search engine emergency
vessels and aircraft in the Krasnoyarsk region»

KRASNOYARSK

THANK YOU
FOR YOUR
ATTENTION!!