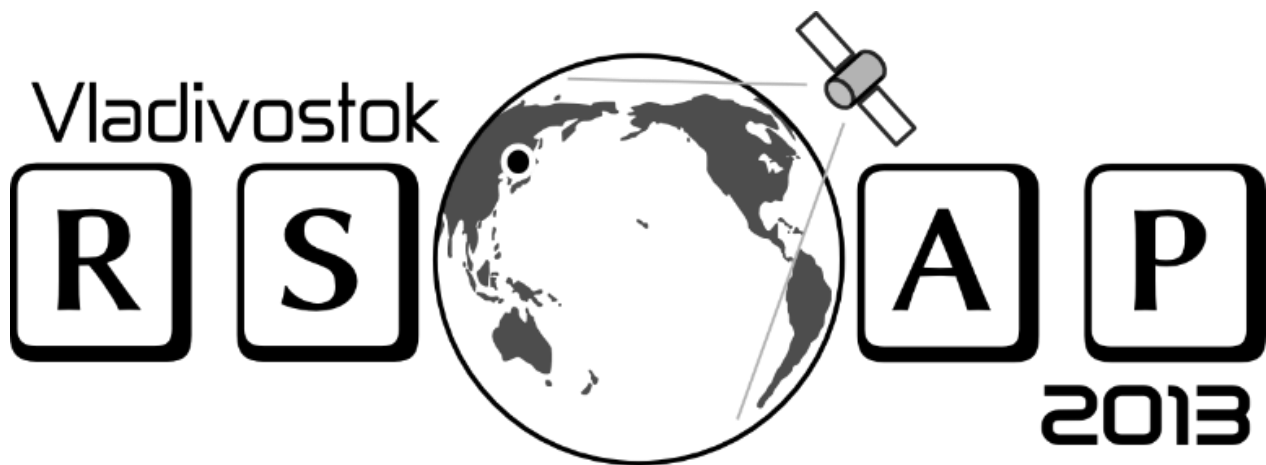


International Conference

**Remote Sensing of Environment:  
Scientific and Applied Research in Asia-Pacific  
(RSAP2013)**

Vladivostok, Russia, 24-27 September 2013



**CONFERENCE PROGRAM**

Official sponsor



Vladivostok

2013

## September 24, Tuesday

Time	Event	Place	Page
08:30 – 16:00	Registration	FEFU Library, 4th Floor, Lobby	-
09:20 – 10:00	Opening Ceremony	FEFU Library, 4th Floor, Conference Hall	7
10:00 – 11:00	First Plenary Session (2 presentations)	FEFU Library, 4th Floor, Conference Hall	8
11:00 – 11:15	Coffee Break	FEFU Library, 4th Floor, Lobby	-
11:15 – 13:15	Second Plenary Session (5 presentations)	FEFU Library, 4th Floor, Conference Hall	9
13:15 – 13:30	Conference Photo	FEFU Library Main Entrance	-
13:30 – 14:30	Lunch	-	-
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19:00 – 21:00	Bus Excursion: Russkiy Island, FEFU Campus	FEFU Library Main Entrance	-

**Section A-1, A-2:** Remote sensing and monitoring of natural and man-caused disasters.

**FEFU Library:** 65b Aleutskaya street, Vladivostok, Russia.

## September 25, Wednesday

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08:30 – 16:00	Registration	FEFU Library, 4th Floor, Lobby	-
09:00 – 11:00	Third Plenary Session (4 presentations)	FEFU Library, 4th Floor, Conference Hall	13
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11:15 – 13:15	Fourth Plenary Session (4 presentations)	FEFU Library, 4th Floor, Conference Hall	13
13:15 – 14:00	Lunch	-	-
14:00 – 15:45	Section C-1 (7 presentations)	FEFU Library, 4th Floor, Conference Hall	15
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18:00 – 21:00	Marine Trip and Banquet on «Hamadori»	Pier 30	-

**Section C-1, C-2:** Technologies of remote sensing data acquisition, archiving, automatic processing, and delivery; problems of data calibration and validation.

**FEFU Library:** 65b Aleutskaya street, Vladivostok, Russia.

## September 26, Thursday

<b>Time</b>	<b>Event</b>	<b>Place</b>	<b>Page</b>
<b>08:30 – 16:00</b>	Registration	FEFU Library, 4th Floor, Lobby	-
<b>09:00 – 09:30</b>	Fifth Plenary Session (1 presentation)	FEFU Library, 4th Floor, Conference Hall	18
<b>09:45 – 11:00</b>	Section B-1 (5 presentations)	FEFU Library, 4th Floor, Conference Hall	18
<b>09:45 – 11:00</b>	Section B-2 (5 presentations)	FEFU Library, 5th Floor, Lobby	23
<b>11:00 – 11:15</b>	Coffee Break	FEFU Library, 4th Floor, Lobby	-
<b>11:15 – 13:15</b>	Section B-3 (8 presentations)	FEFU Library, 4th Floor, Conference Hall	19
<b>11:15 – 13:15</b>	Section B-4 (8 presentations)	FEFU Library, 5th Floor, Lobby	24
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<b>14:15 – 16:00</b>	Section B-5 (7 presentations)	FEFU Library, 4th Floor, Conference Hall	21
<b>14:15 – 15:15</b>	Section B-6 (4 presentations)	FEFU Library, 5th Floor, Lobby	25
<b>15:15 – 16:00</b>	Section D-1 (3 presentations)	FEFU Library, 5th Floor, Lobby	26
<b>16:00 – 16:15</b>	Coffee Break	FEFU Library, 4th Floor, Lobby	-
<b>16:15 – 18:00</b>	Poster Presentations (25 posters)	FEFU Library, 4th Floor, Lobby	27
<b>19:00 – 21:00</b>	Bus Excursion: Vladivostok	FEFU Library Main Entrance	-

**Section B-1, B-2, B-3, B-4, B-5, B-6:** Remote sensing applications in oceanography, meteorology, climate, land cover & land use studies, environment monitoring, and geology.

**Section D-1:** GIS-technologies and GPS/GLONASS navigation for environment monitoring and rational environment management.

**FEFU Library:** 65b Aleutskaya street, Vladivostok, Russia.

## September 27, Friday

Time	Event	Place	Page
08:30 – 11:30	Registration	FEFU Library, 4th Floor, Lobby	-
09:00 – 11:00	Round Table A	FEFU Library, 4th Floor, Conference Hall	32
09:00 – 11:00	Round Table B	FEFU Library, 5th Floor, Lobby	32
09:00 – 11:00	Round Table C	FEFU Library, 5th Floor, Lobby	32
11:00 – 11:30	Coffee Break	FEFU Library, 4th Floor, Lobby	-
11:30 – 13:00	Conference Resolution Closing Ceremony	FEFU Library, 4th Floor, Conference Hall	32

**Round Table A:** Advanced microwave instruments for remote sensing (45th anniversary of Cosmos-243 launch, the first microwave radiometer in space, and 30th anniversary of Cosmos-1500 launch, the first real-aperture radar in space).

**Round Table B:** Space services development in Far-Eastern region: acquisition, archiving, automatic processing and delivery; access to data processing technologies.

**Round Table C:** Infrastructure of satellite data provision of scientific and applied activity in Asia-Pacific region: GIS applications, the use of high resolution satellite images and GPS/GLONASS data.

**FEFU Library:** 65b Aleutskaya street, Vladivostok, Russia.

<b>September 24</b> Tuesday	<b>Opening ceremony</b> <b>Plenary Sessions</b>
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**09:20 – 10:00**

**Opening Ceremony**

*(FEFU Library, 4th Floor, Conference Hall)*

**Academician SERGIENKO Valentin Ivanovich**

*Vice-president of RAS, Chairman of FEB RAS Presidium, Director of Institute of Chemistry FEB RAS, Director of School of Natural Sciences FEFU, Co-chairman of Program Committee*

**Academician LEVIN Vladimir Alekseevich**

*Research Deputy Director of IACP FEB RAS, Co-chairman of Program Committee*

**Professor TANG DanLing**

*PhD, PORSEC president; South China Sea Institute of Oceanology Chinese Academy of Sciences, Co-chairman of Program Committee*

**Academician KUL'CHIN Yuriy Nikolaevich**

*Director of IACP FEB RAS, Deputy director of School of Natural Science FEFU*

**Dr. Sc. FATKULIN Anvir Amrulovich**

*FEFU, Prorector for Science and Innovations*

**Dr. Sc. BUKIN Oleg Alekseevich**

*Nevelskoy Maritime State University, Prorector for Science*

**Ph.D. DUBOVITSKIY Sergey Victorovich**

*FEFU, Prorector for Strategic Development*

**Dr. Sc. MARTINENKO Andrey Borisovich**

*FEFU, Professor, Deputy Prorector for Strategic Development*

**GOLOVACHEV Evgeniy Vladimirovich**

*Administration of Primorsky Region, Department of Information systems*

<b>September 24</b> Tuesday	<b>Opening ceremony</b> <b>Plenary Sessions</b>
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**10:00 – 11:00 First Plenary Session**

Chairmen: Mitnik L., Sergeeva M.A.

*(FEFU Library, 4th Floor, Conference Hall)*

10:00 – 10:30 Mitnik L.

Microwave passive and active remote sensing: From Kosmos-243 and Kosmos-1500 to GCOM-W1 Envisat and ALOS

*Pacific Oceanological Institute, Vladivostok, Russia*

10:30 – 11:00 Baklanov P.Ya.

Economic, geographical and geopolitical position of Pacific Russia

*Pacific Institute of Geography FEB RAS, Vladivostok, Russia*

**11:00 – 11:15 Coffee Break**

*(FEFU Library, 4th Floor, Lobby)*

**11:15 – 13:15 Second Plenary Session**

*(FEFU Library, 4th Floor, Conference Hall)*

Chairmen: Mitnik L., Sergeeva M.A.

11:15 – 11:45 Alpers W.

Investigating phenomena in the marine boundary layer by SAR

*Institute of Oceanography, Hamburg University, Hamburg, Germany*

11:45 – 12:15 Liou Yuei-An, Yen N., Fong Chen-Joe, Pavelyev A.G.

On the achievements of Formosat-3 space mission and its follow-on Formosat-7 space mission status

*Center for Space and Remote Sensing Research, National Central University, Chung-Li, Taiwan; Taiwan Group on Earth Observations, Chung-Li, Taiwan; National Space Organization (NSPO), National Applied Research Laboratories, Hsin-Chu, Taiwan; Institute of Radio Engineering and Electronics of the RAS, Fryazino, Russia*



<b>September 24</b> Tuesday	<b><i>Opening ceremony</i></b> <b><i>Plenary Sessions</i></b>
12:15 – 12:45	Stanichny S.V. Recent Internet archives for Satellite data and tools for data processing <i>Marine Hydrophysical Institute NAS, Sevastopol, Ukraine</i>
12:45 – 13:15	Sergeeva M.A. Modern Satellite Imagery Possibilities and Technologies <i>SCANEX R&amp;D Center, Moscow, Russia</i>
<b>13:15 – 13:30</b>	<b>Conference Photo</b>
<b>13:30 – 14:30</b>	<b>Lunch</b>

<b>September 24</b> Tuesday	<b>Sections A-1, A-2</b>
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- 14:30 – 15:45**     **Section A-1: Remote sensing and monitoring of natural and man-caused disasters**  
Chairmen: Permyakov M.S., Sorokin A.A.  
*(FEFU Library, 4th Floor, Conference Hall)*
- 14:30 – 14:45     Arkhipkin O.P., Sagatdinova G.N.  
The space monitoring system of emergencies in Kazakhstan  
*Space Research Institute, National center of Space research and Technology, Alma-Ata, Kazakhstan*
- 14:45 – 15:00     Sorokin A.A., Korolev S.P., Shestakov N.V., Konovalov A.V., Girina O.A.  
Information technology software tools for geophysical and video observations in the FEB RAS research of natural hazards in the Russian Far East  
*Computing Center FEB RAS, Khabarovsk, Russia; Institute for Applied Mathematics FEB RAS, Vladivostok, Russia; Far Eastern Federal University, Vladivostok, Russia; Institute of Marine Geology and Geophysics FEB RAS, Yuzhno-Sakhalinsk, Russia; Institute of Volcanology and Seismology FEB RAS, Petropavlovsk-Kamchatsky, Russia*
- 15:00 – 15:15     Permyakov M.S., Potalova E.Yu.  
A study of tropical cyclones mesoscale structure on base on Quik SCAT scatterometer data  
*Pacific Oceanological Institute FEB RAS, Vladivostok, Russia*
- 15:15 – 15:30     Ermakov D., Sharkov E., Chernushich A.  
Animated analysis of precedents of tropical cyclones' rapid intensification  
*Institute of Radioengineering and Electronics of RAS, Fryazino Department, Fryazino, Russia; Space Research Institute RAS, Moscow, Russia*

September 24 Tuesday	<b>Sections A-1, A-2</b>
15:30 – 15:45	<p>Chimitdorzhiev T., Zakharov A., Mironov V., Bykov M., Dagurov P., Dmitriev A.</p> <p>Application of satellite radar interferometry for monitoring dynamics of the Earth's surface caused by various effects</p> <p><i>Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia; Fryazino Branch of the Institute of Radioengineering and Electronics of RAS, Fryazino, Russia; Institute of Physics SB RAS, Krasnoyarsk, Russia</i></p>
15:45 – 16:00	<p><b>Coffee Break</b></p> <p><i>(FEFU Library, 4th Floor, Lobby)</i></p>
16:00 – 18:00	<p><b>Section A-2: Remote sensing and monitoring of natural and man-caused disasters</b></p> <p><u>Chairmen:</u> Permyakov M.S., Sorokin A.A.</p> <p><i>(FEFU Library, 4th Floor, Conference Hall)</i></p>
16:00 – 16:15	<p>Natyaganov V.L., Doda L.N., Stepanov I.V.</p> <p>Monitoring of signs of preparation for earthquake forecast</p> <p><i>Moscow State University, Department of Mechanics and Mathematics, Moscow, Russia</i></p>
16:15 – 16:30	<p>Grishin S.</p> <p>Impact of the large 2012-2013 eruption on vegetation in the Tolbachik volcano area, Kamchatka, from satellite data</p> <p><i>Institute of Biology and Soil Science FEB RAS, Vladivostok, Russia</i></p>
16:30 – 16:45	<p>Korolev Yu.</p> <p>The short-term tsunami forecast using remote sea-level gauges</p> <p><i>Institute of Marine Geology and Geophysics FEB RAS, Yuzhno-Sakhalinsk, Russia</i></p>
16:45 – 17:00	<p>Stepanov I., Chistov S.</p> <p>Satellite imagery for the earthquake monitoring</p> <p><i>Moscow State University, Faculty of Geography, Moscow, Russia</i></p>

<b>September 24</b> Tuesday	<b>Sections A-1, A-2</b>
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- 17:00 – 17:15 Rybas O., Gilmanova G.  
 Identification of geological structures by processing digital elevation models using the scale-space theory and developing synthesized colored image  
*Institute of Tectonics and Geophysics FEB RAS, Khabarovsk, Russia*
- 17:15 – 17:30 Diakov S.E., Rybin A.V.  
 Satellite monitoring of volcanoes of the Kuril Islands states  
*Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia; Institute of Marine Geology and Geophysics FEB RAS, Yuzhno-Sakhalinsk, Russia*
- 17:30 – 17:45 Gusev M.N., Guseva I.M., Marchukov V.S.  
 Remote sensing for the study the dynamics of channel forms an example of the Amur and Zeya Rivers  
*Institute of Geology and Nature Management FEB RAS, Blagoveshchensk, Russia*
- 17:45 – 18:00 Glagolev V., Kogan R.  
 Application of satellite monitoring for estimation of vegetation fire hazards  
*Institute for complex analysis of regional problems, Birobidzhan, Russia*

<b>September 25</b> Wednesday	<b>Plenary Sessions</b>
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**09:00 – 11:00 Third Plenary Session**

Chairmen: Stanichmiy S.V., Alexanina M.G.  
(FEFU Library, 4th Floor, Conference Hall)

09:00 – 09:30 Gade M.

Synthetic Aperture Radar Data Provide Information on Sub-Mesoscale Turbulent Features and Currents

*Institute of Oceanography, University of Hamburg, Hamburg, Germany*

09:30 – 10:00 Ebuchi N.

Observation of ocean and atmosphere by AMSR2 on GCOM-W1

*Hokkaido University, Sapporo, Japan*

10:00 – 10:30 Sergeeva M.A.

University Geoportals Network. Experience of work. Development Prospects

*SCANEX R&D Center, Moscow, Russia*

10:30 – 11:00 Stanichny S.V.

Multispectral, Multiplatform Approach for marine environment investigation

*Marine Hydrophysical Institute NAS, Sevastopol, Ukraine*

**11:00 – 11:15 Coffee Break**

(FEFU Library, 4th Floor, Lobby)

**11:15 – 13:15 Fourth Plenary Session**

Chairmen: Stanichmiy S.V., Alexanina M.G.  
(FEFU Library, 4th Floor, Conference Hall)

11:15 – 11:45 Zeleny L., Bartalev S., Loupian E.

Contemporary capabilities of remote sensing technology application for the Earth Science

*Space Research Institute RAS, Moscow, Russia*

<b>September 25</b> Wednesday	<b>Plenary Sessions</b>
11:45 – 12:15	Levin V.A., Alexanina M.G. Development of satellite monitoring technologies in the Far East branch of the Russian Academy of Sciences <i>Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia</i>
12:15 – 12:45	Avdeev A.V. Modern trends in HPC application development: overview of Intel Software programming tools, examples of their effective usage and special Intel Russia/Worldwide programs for developers <i>INTEL Corporation, Moscow, Russia</i>
12:45 – 13:15	Tokhiyan O.O., Kurlykov A.M., Gladkov A.P. Remote sensing data and information support using the Integrated Geographically Distributed Information System of ERS (IGDIS ERS) for research and management in industry, agriculture, and environmental monitoring <i>OJSC «Research Institute of Precision Instruments», Moscow, Russia</i>
<b>13:15 – 14:00</b>	<b>Lunch</b>

<b>September 25</b> Wednesday	<b>Sections C-1, C-2</b>
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- 14:00 – 15:45**    **Section C-1: Technologies of remote sensing data acquisition, archiving, automatic processing, and delivery; problems of data calibration and validation**  
Chairmen: Krasnopeyev S.M., Kharitonov D.  
*(FEFU Library, 4th Floor, Conference Hall)*
- 14:00 – 14:15    Kramareva L., Chetyrin Yu.  
The Far-Eastern Center of the 'Planeta' Research Center: data receiving systems, technology, data  
*Far East center "SRC "Planeta", Khabarovsk, Russia; Computer Center FEB RAS, Khabarovsk, Russia*
- 14:15 – 14:30    Burtsev M., Antonov V., Efremov V., Kashnizky A., Kramareva L., Krasheninnikova Yu., Loupian E., Mazurov A., Matveev A., Milekhin O., Proshin A.  
Development of the SRC 'Planeta' distributed archives management system for satellite information products  
*Space Research Institute, Moscow, Russia; State Research Center "Planeta", Moscow, Russia*
- 14:30 – 14:45    Ermakov D., Savorskiy V., Chernushich A.  
The feasibility of a distributed infrastructure for collective usage of remote sensing data of the Earth based on virtual integration techniques  
*Institute of Radioengineering and Electronics of RAS, Fryazino Department, Fryazino, Russia*
- 14:45 – 15:00    Kharitonov D.  
Data center technologies in IACP FEB RAS  
*Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia*
- 15:00 – 15:15    Krasnopeyev S.M., Pashinskiy S.S., Shulkin E.V.  
Development of key elements of spatial data infrastructure for open access to remote sensing data in FEB RAS institutions  
*Pacific Institute of Geography FEB RAS, Vladivostok, Russia*

<b>September 25</b> Wednesday	<b>Sections C-1, C-2</b>
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- 15:15 – 15:30     Stepochkin I.E., Salyuk P.A., Shmirko K.A.  
 Development of the ISAD Interactive System for Analysis of Data for “in-situ” oceanological and atmospheric data  
*Maritime State University, Vladivostok, Russia; Pacific Oceanological Institute FEB RAS, Vladivostok, Russia; Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia*
- 15:30 – 15:45     Shulkin E.  
 The client web application for spatial data analysis  
*Pacific Institute of Geography FEB RAS, Vladivostok, Russia*
- 15:45 – 16:00     Coffee Break**  
*(FEFU Library, 4th Floor, Lobby)*
- 16:00 – 17:30     Section C-2: Technologies of remote sensing data acquisition, archiving, automatic processing, and delivery; problems of data calibration and validation**  
Chairmen: Krasnopeyev S.M., Kharitonov D.  
*(FEFU Library, 4th Floor, Conference Hall)*
- 16:00 – 16:15     Diakov S.E., Naumova V.V.  
 Satellite data providing system for geological investigations on the Far East of Russia  
*Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia; Far East Geological Institute FEB RAS, Vladivostok, Russia*
- 16:15 – 16:30     Gomozov O., Chernenko A., Karpuhin S., Altinov A.  
 The concept of the integrated geoinformation cartographic Atlas of the Asia Pacific region based on remote sensing data  
*OJSC «Scientific Research Institute of Precision Instruments», Moscow, Russia*



September 25 Wednesday	<b>Sections C-1, C-2</b>
16:30 – 16:45	<p>Mitnik M., Mitnik L.</p> <p>Algorithm development for geophysical parameter retrieval for the GCOM-W1, AMSR2, and Meteor-M No. 1 MTVZA-GYa radiometers</p> <p><i>Pacific Oceanological Institute FEB RAS, Vladivostok, Russia</i></p>
16:45 – 17:00	<p>Dmitriev A., Chimitdorzhiev T., Dagurov P., Kirbizhekova I., Emelyanov K., Gusev M.</p> <p>Development and verification technologies of remotely sensed products from radar data</p> <p><i>Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia; Research Center for Earth Operative Monitoring of JSC «Russian Space Systems», Moscow, Russia</i></p>
17:00 – 17:15	<p>Katamanov S.N.</p> <p>Automatic Image Navigation for Remote Sensing Polar-Orbiting Satellites: Methods and Results</p> <p><i>Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia</i></p>
17:15 – 17:30	<p>Shtraikhert E., Zakharkov S., Gordeychuk T., Shambarova J.</p> <p>Verification of time variability for the satellite estimate of chlorophyll-a concentration in Peter the Great Bay during the winter-spring phytoplankton bloom</p> <p><i>Pacific Oceanological Institute FEB RAS, Vladivostok, Russia</i></p>
18:00 – 21:00	<p><b>Marine Trip and Banquet on “Hamadori”</b></p>

<b>September 26</b> Thursday	<b><i>Plenary Session</i></b> <b><i>Sections B-1, B-3, B-5</i></b>
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**09:00 – 09:30 Fifth Plenary Session**

Chairmen: Tang DangLing, Aleksanin A.I.  
(FEFU Library, 4th Floor, Conference Hall)

09:00 – 09:30 Tang DanLing

Applications of satellite remote sensing on marine environmental ecosystems

*PORSEC, South China Sea Institute of Oceanology CAS, Beijing, China*

**09:45 – 11:00 Section B-1: Remote sensing applications in oceanography, meteorology, climate, land cover & land use studies, environment monitoring, and geology**

Chairmen: Tang DanLing, Aleksanin A.I.  
(FEFU Library, 4th Floor, Conference Hall)

09:45 – 10:00 Aleksanin A.I., Kachur V. A.

Optimal atmospheric correction for colour data processing with the program package SEADAS

*Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia*

09:45 – 10:00 Shambarova Yu.V., Steepochkin I.E.

Devising of regional model for primary production estimation at the North Western Japan Sea

*Pacific Oceanological Institute FEB RAS, Vladivostok, Russia*

10:00 – 10:15 Salyuk P.A., Steepochkin I.E.

Devising of semianalytical model for phytoplankton communities state estimation from passive remote sensing data down the seas of Russian Far East

*Pacific Oceanological Institute FEB RAS, Vladivostok, Russia*

<b>September 26</b> Thursday	<b>Plenary Session</b> <b>Sections B-1, B-3, B-5</b>
10:15 – 10:30	<p>Morozov E., Pozdnyakov D., Korosov A., Petrenko D.            Satellite monitoring of some harmful algal blooms with the use of specialized algorithms</p> <p><i>Nansen International Environmental and Remote Sensing Centre (NIERSC), St.-Petersburg, Russia; Nansen Environmental and Remote Sensing Centre (NERSC), Bergen, Norway</i></p>
10:30 – 10:45	<p>Abakumov A.I., Izrailsky Yu.G., Pak S.Ya.            Estimation of primary production in the Japan Sea from satellite data</p> <p><i>Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia</i></p>
<b>11:00 – 11:15</b>	<p><b>Coffee Break</b>  <i>(FEFU Library, 4th Floor, Lobby)</i></p>
<b>11:15 – 13:15</b>	<p><b>Section B-3: Remote sensing applications in oceanography, meteorology, climate, land cover &amp; land use studies, environment monitoring, and geology</b></p> <p><u>Chairmen:</u> Tang DangLing, Aleksanin A.I.  <i>(FEFU Library, 4th Floor, Conference Hall)</i></p>
11:15 – 11:30	<p>Zakharkov S., Shtraikhert E., Gordeychuk T., Shambarova J.            Relationship of phytoplankton parameters with mixed layer depth in the Sea of Japan in winter</p> <p><i>Pacific Oceanological Institute FEB RAS, Vladivostok, Russia</i></p>
11:30 – 11:45	<p>Lisitsa V., Shmirko K.            Lidar sensing of the atmosphere by femtosecond laser pulses</p> <p><i>Far Eastern Federal University, Vladivostok, Russia; Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia</i></p>

<b>September 26</b> Thursday	<b><i>Plenary Session</i></b> <b><i>Sections B-1, B-3, B-5</i></b>
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- 11:45 – 12:00 Sakerin S.M.  
Исследования аэрозольной оптической толщи и влагосодержания атмосферы над океаном с использованием солнечных фотометров и спутниковых данных  
*Institute of Atmospheric Optics SB RAS, Tomsk, Russia*
- 12:00 – 12:15 Shmirko K., Pavlov A., Stolyarchuk S.  
The study of atmospheric aerosol distribution properties in the Far East region by means of lidar, sun-photometer and in-situ measurements  
*Institute of automation and control processes FEB RAS, Vladivostok, Russia*
- 12:15 – 12:30 Bordonskiy G.S., Krylov S.D., Orlov A.O., Petrov O.I., Shegrina K.A.  
Electromagnetic losses of supercooled water at millimeter waves under 0 ÷ -190°C  
*Institute of Natural Resources, Ecology and Cryology SB RAS, Chita, Russia*
- 12:30 – 12:45 Osawa T., Pandawana I. Dewa Gede Agung, Rahman As-syakur Abd.  
Indonesia Rainfall Diurnal Cycle Analysis Using Satellite Data: A Case Study on Java Island and the surrounding area  
*Center for Remote Sensing and Ocean Sciences (CReSOS), Udayana University, Denpasar, Bali, Indonesia; College of Computer Science STMIK INDONESIA (STIKI), Denpasar, Bali, Indonesia; Environmental Research Center (PPLH), Udayana University, Denpasar, Bali, Indonesia*
- 12:45 – 13:00 Uvarov I., Bocharova T., Lavrova O., Loupian E., Mityagina M.  
Capabilities of the “See the Sea” Internet service in satellite monitoring of the World Ocean  
*Space Research Institute RAS, Moscow, Russia*

<b>September 26</b> Thursday	<b>Plenary Session</b> <b>Sections B-1, B-3, B-5</b>
13:00 – 13:15	<p>Ponomarev V.I., Aleksanina M.G., Fayman P.A., Fomin E.V., Dubina V.A., Mashkina I.V., Budyansky M.V., Shkorba S.P.</p> <p>Eddy structure of the Japan Sea circulation on satellite data and hydrodynamic simulation</p> <p><i>Pacific Oceanological Institute FEB RAS, Vladivostok, Russia; Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia; Far Eastern Regional Hydrometeorological Research Institute (FERHRI), Vladivostok, Russia</i></p>
<b>13:15 – 14:15</b>	<b>Lunch</b>
<b>14:15 – 16:15</b>	<p><b>Section B-5: Remote sensing applications in oceanography, meteorology, climate, land cover &amp; land use studies, environment monitoring, and geology</b></p> <p><u>Chairmen:</u> Tang DangLing, Aleksanin A.I.</p> <p><i>(FEFU Library, 4th Floor, Conference Hall)</i></p>
14:15 – 14:30	<p>Kazansky A.V.</p> <p>Objective analysis of velocity data using streamlets</p> <p><i>Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia</i></p>
14:30 – 14:45	<p>Lobanov V., Ladychenko S., Kaplunenko D., Sergeev A.</p> <p>Reverse flow in the northwestern Japan Sea observed by satellite and in-situ data</p> <p><i>Pacific Oceanological Institute FEB RAS, Vladivostok, Russia</i></p>
14:45 – 15:00	<p>Kilmatov T., Zhabin I., Matvienko Yu., Lyakhov D.</p> <p>Spatial gradients of hydrometeorological fields as an indicator of climate change</p> <p><i>Far Eastern Federal University, Vladivostok, Russia; Pacific Oceanological Institute FEB RAS, Vladivostok, Russia; Institute of Marine Technology Problem FEB RAS, Vladivostok, Russia</i></p>

<b>September 26</b> Thursday	<b>Plenary Session</b> <b>Sections B-1, B-3, B-5</b>
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- 15:00 – 15:15 Tshay Zh., Khen G.  
The comparison of satellite and in situ chlorophyll-a concentration in the Okhotsk Sea  
*Sakhalin Research Institute of Fisheries and Oceanography (SakhNIRO), Yuzhno-Sakhalinsk, Russia; TINRO-center, Vladivostok, Russia*
- 15:15 – 15:30 Aleksanin A. I., Kim V.  
SST enhancement with edge neighborhood-based satellite image processing algorithms  
*Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia*
- 15:30 – 15:45 Filatov V.N., Ballo A.V., Eremin Yu.V., Ustinova E.I.  
Usage of SST data from satellite and in situ observations for operational scientific information support of the pacific saury fisheries expedition  
*Southern Scientific Centre RAS, Rostov-on-Don, Russia; Engineering Centre «Geotok», Vladivostok, Russia; Pacific Fisheries Research Centre (TINRO- Centre), Vladivostok, Russia*
- 15:45 – 16:00 Djuldin E.A., Konstantinov O.G.  
Study of wave characteristics by videopolyarimeter data  
*Pacific Oceanological Institute FEB RAS, Vladivostok, Russia*
- 16:00 – 16:15 Coffee Break**  
*(FEFU Library, 4th Floor, Lobby)*

<b>September 26</b> Wednesday	<b>Sections B-2, B-4, B-6, D-1</b>
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- 09:45 – 11:00**    **Section B-2: Remote sensing applications in oceanography, meteorology, climate, land cover & land use studies, environment monitoring, and geology**  
Chairmen: Dubina V.A., Chetyrbotsky A.N.  
*(FEFU Library, 5th Floor, Lobby)*
- 09:45 – 10:00    Pereslegin S., Khalikov Z.  
Operational radar diagnostics of oceanic high-speed phenomena from space  
*Institute of oceanology RAS, Moscow, Russia*
- 10:00 – 10:15    Dagurov P.N., Dmitriev A.V., Chimitdorzhiev T.N.  
Phase variation in the microwave reflection and scattering from rough and smooth layered land covers  
*Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia*
- 10:15 – 10:30    Dubina V.A., Mitnik L.M.  
Satellite remote sensing of environmental processes in Peter the Great Bay  
*Pacific Oceanological Institute FEB RAS, Vladivostok, Russia*
- 10:30 – 10:45    Alexanin A.I., Alexanina M.G., Stopkin M.V.  
Ice-drift parameter estimation from satellite imagery  
*Institute of Automation and Control Processes FEB RAS; Far-Eastern Federal University, Vladivostok, Russia*
- 10:45 – 11:00    Chetyrbotsky A.N.  
Sea ice cover formation and destruction analysis using remote sensing data  
*Far East Geological Institute, Vladivostok, Russia*
- 11:00 – 11:15**    **Coffee Break**  
*(FEFU Library, 4th Floor, Lobby)*

September 26 Wednesday	<b>Sections B-2, B-4, B-6, D-1</b>
09:45 – 11:00	<p><b>Section B-4: Remote sensing applications in oceanography, meteorology, climate, land cover &amp; land use studies, environment monitoring, and geology</b></p> <p><u>Chairmen:</u> Trusenkova O., Krasnopeyev S.M. <i>(FEFU Library, 5th Floor, Lobby)</i></p>
11:15 – 1:30	<p>Burago V., Golik A., Kravchenko R., Matyushenko L., Moiseenko G., Vasik O., Shevchenko I.</p> <p>Sea ice data sets in the Northwest Pacific marginal seas <i>TINRO-Center, Vladivostok, Russia; Far East Federal University, Vladivostok, Russia; Pacific Oceanological Institute FEB RAS, Vladivostok, Russia; VNIRO, Moscow, Russia</i></p>
11:30 – 11:45	<p>Belonenko T.V.</p> <p>Generalized synthesis of large-scale variability of sea level in the North-Western Pacific based on satellite altimetry <i>Saint-Petersburg State University, St-Petersburg, Russia</i></p>
11:45 – 12:00	<p>Trusenkova O., Kaplunenko D.</p> <p>Seasonal to decadal sea level variability in the Japan Sea derived from 20-yr satellite altimetry record <i>Pacific Oceanological Institute FEB RAS, Vladivostok, Russia</i></p>
12:00 – 12:15	<p>Sedaeva O., Kusaylo O.</p> <p>The interrelation of seasonal sea level variations in the Sea of Okhotsk with atmospheric pressure and wind fields <i>Institute of Marine Geology &amp; Geophysics, Yuzhno-Sakhalinsk, Russia; Sakhalin Research Institute of Fisheries &amp; Oceanography, Yuzhno-Sakhalinsk, Russia</i></p>
12:15 – 12:30	<p>Kirbizhekova I.I., Chimitdorzhiev T.N.</p> <p>Seasonal changes in forest vegetation on the basis of ALOS PALSAR polarimetric data <i>Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia</i></p>



September 26 Wednesday	<b>Sections B-2, B-4, B-6, D-1</b>
12:30 – 12:45	<p>Krasnopeyev S.M. Preliminary analysis of “Kanopus-V” and “BKA” images (Product Level2) <i>Pacific Institute of Geography FEB RAS, Vladivostok, Russia</i></p>
12:45 – 13:00	<p>Ostroukhov A.V., Mirzekhanova Z.G. Evaluation of spatial characteristics of geosystem transformation under the influence of alluvial gold mining based on remote sensing data <i>Institute of water and ecology problems FEB RAS, Khabarovsk, Russia</i></p>
13:00 – 13:15	<p>Shevyrev S., Khomich V., Boriskina N., Shevyreva M. Remote sensing of ore-bearing areas of Russian Far East for mineragenic reconstruction <i>Far East Geological Institute FEB RAS, Vladivostok, Russia</i></p>
<b>13:15 – 14:15</b>	<b>Lunch</b>
<b>14:15 – 15:15</b>	<p><b>Section B-6: Remote sensing applications in oceanography, meteorology, climate, land cover &amp; land use studies, environment monitoring, and geology</b> <i>(FEFU Library, 5th Floor, Lobby)</i> <u>Chairmen:</u> Trusenkova O., Krasnopeyev S.M.</p>
14:15 – 14:30	<p>Bobrova M.E., Perezhogin A.S. Modeling of geoacoustic emission zones for interrelation with InSAR data <i>Institute of Cosmophysical Research and Radiowave Propagation FEB RAS, Paratunka, Russia</i></p>
14:30 – 14:45	<p>Myshliakov S. Interpretation and mapping of hunting species habitats in Yakutia based on multispectral satellite images <i>Sovzond JSC, Moscow, Russia</i></p>

September 26 Wednesday	<b>Sections B-2, B-4, B-6, D-1</b>
14:45 – 15:00	<p>Markelov G., Tyutrin S.</p> <p>Application of remote sensing for landscape evaluation in Khabarovsk</p> <p><i>Center of Space Technologies Pacific National University, Khabarovsk, Russia</i></p>
15:00 – 15:15	<p>Melnikov D., Ushakov S.</p> <p>Satellite and ground-based methods of volcanic sulfur dioxide analysis: case study for Kamchatka</p> <p><i>Institute of volcanology and seismology FEB RAS, Petropavlovsk-Kamchatsky, Russia</i></p>
15:15 – 16:00	<p><b>Section D-1: GIS-technologies and GPS/GLONASS navigation for environment monitoring and rational environment management</b></p> <p><i>(FEFU Library, 5th Floor, Lobby)</i></p> <p><u>Chairmen:</u> Krasnopeyev S.M., Trusenкова O.O.</p>
15:15 – 15:30	<p>Krasnopeyev S.M.</p> <p>Experience of topography modeling based on remote sensing data</p> <p><i>Pacific Institute of Geography FEB RAS, Vladivostok, Russia</i></p>
15:30 – 15:45	<p>Egidarev E., Simonov E.</p> <p>Using remotely sensed data for mapping effects of alluvial gold mining and estimation of basin-scale river bed disturbances</p> <p><i>Pacific Institute of Geography FEB RAS, Vladivostok, Russia</i></p>
15:45 – 16:00	<p>Blinovskaia I., Zadoia D.</p> <p>Oil spill modeling for development of oil fields on the Western Kamchatka shelf</p> <p><i>Maritime State University, Vladivostok, Russia</i></p>
16:00 – 16:15	<p><b>Coffee Break</b></p> <p><i>(FEFU Library, 4th Floor, Lobby)</i></p>

<b>September 26</b> Wednesday	<b><i>Poster Presentations</i></b>
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**16:15 – 18:00    Poster Presentations**

1. Baldina E., Martyanov A.  
Application of infrared satellite images for study and mapping of Primorye landscapes: Case study of Lazo Reserve  
*Moscow State university, Faculty of Geography, Moscow, Russia*
  
2. Bogdanov V., Kaisin A., Polyukhova A., Romanov A.  
The influence of cyclones over Kamchatka on the ionosphere electron distribution by height  
*Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (IKIR), Paratunka, Russia; OJSC "Russian Space Systems, Moscow, Russia*
  
3. Cherny I., Chernyavsky G., Nikitin O.  
Microwave technique for diagnostics of processes in oceanic thermocline  
*Scientific-Technological Center «Kosmonit», JSC «Russian Space Systems», Moscow*
  
4. Eremenko A.  
Automatic system of tropical cyclone monitoring  
*Institute of Automation and Control Processes, Vladivostok, Russia*
  
5. Fetisov D.  
Trends of anthropogenic geosystems transformation in the Little Khingan Mountains  
*Institute for Complex Analysis of Regional Problems FEB RAS, Birobidzhan, Russia*
  
6. Girina O.A.  
Satellite monitoring of Bezymianny volcano, Kamchatka  
*Institute of Volcanology and Seismology FEB RAS, Petropavlovsk-Kamchatsky, Russia*

<b>September 26</b> Wednesday	<b>Poster Presentations</b>
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7. Liou Yuei-An, Liu Hsiao-Lan, Wang Tai-Sheng  
Impact of Vanishing Irrigation Ponds on Regional Water Resources –Taoyuan Area as an example  
*Center for Space and Remote Sensing Research, National Central University, Chung-Li, Taiwan; Taiwan Group on Earth Observations, Chung-Li, Taiwan; Graduate Institute of Hakka Political Economy, National Central University, Chung-Li, Taiwan; Center for Space and Remote Sensing Research, National Central University, Chung-Li, Taiwan*
8. Loupian E.A., Girina O.A., Sorokin A.A., Kramareva L.S.  
Remote Monitoring of Active Volcanoes of the Kamchatka and the Kurile Islands (VolSatView) Information Service: current state and perspective of development  
*Space Research Institute RAS, Moscow, Russia; Institute of Volcanology and Seismology FEB RAS, Petropavlovsk-Kamchatsky, Russia; Computer Center FEB RAS, Khabarovsk, Russia; SRC “Planeta”, Khabarovsk, Russia*
9. Kiseleva S.V., Maslov S.A., Natyaganov V.L., Sytov V.E.  
Catastrophic natural events as a sign of the modern revitalization of the planet  
*Moscow State University, Department of Geography, Moscow, Russia*
10. Khazanova E.S.  
Sea ice in the Tatar Strait, Japan Sea, from satellite remote sensing data  
*Pacific Oceanological Institute FEB RAS, Vladivostok, Russia*
11. Kukarenko E., Vasilevskaya L., Gurvich I.  
Hurricane cyclones over the Far-Eastern Seas and North Pacific Ocean  
*Far Eastern Federal University, Vladivostok, Russia; Pacific Oceanological Institute FEB RAS, Vladivostok, Russia*

<b>September 26</b> Wednesday	<b>Poster Presentations</b>
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12. Moiseenko G.S., Shevchenko I.I., Burago B.A.  
The study of the remote sensing reflectance empirical orthogonal functions variability  
*Russian Federal Research Institute of Fisheries & Oceanography (VNIRO), Moscow, Russia; Pacific Fisheries Research Centre (TINRO-Centre), Vladivostok, Russia*
  
13. Nedoluzhko I.V.  
Development of Means for Integration of Satellite Center FEB RAS Into All Russian and International Information Systems  
*Institute of Automation and Control Processes, Vladivostok, Russia*
  
14. Novikov Yu.V., Nikitin A.A., Zagumennov A.A.  
Automatic monitoring of synoptic eddies from satellite images and data hydrological surveys in the South Kuril Region in August-September 2012  
*Pacific Fisheries Research Centre (TINRO-Centre), Vladivostok, Russia; Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia*
  
15. Pichugin M.K., Gurvich I.A.  
Satellite multisensor study of winter atmospheric conditions associated with storm winds over the Japan Sea  
*Pacific Oceanological Institute FEB RAS, Vladivostok, Russia*
  
16. Rozhkov Yu.F. Kondakova M.Yu.  
Оценка динамики процесса восстановления лесов после пожара с использованием дешифрирования космических снимков  
*ФГБУ «Государственный природный заповедник «Олекминский», Olekminsk, Russia; ФГБУ «Гидрохимический институт», Rostov-on-Don, Russia*

<b>September 26</b> Wednesday	<b><i>Poster Presentations</i></b>
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17. Stepanov I., Chistov S.  
Assessment algorithm of earthquake parameters based on interpretation of satellite image series  
*Moscow State University, Faculty of Geography, Moscow, Russia*
18. Shevyreva M. Zh., Shevyrev S. L., Shatrov N. V.  
About the detection of endogenous factor of water ecosystem formation using MODIS AQUA remotely sensed data  
*Far Eastern Federal University, Vladivostok, Russia*
19. Shevyreva M. Zh., Shevyrev S. L., Shatrov N. V.  
Lithodynamics of sediments and placer conditions from MODIS AQUA remote sensing data: case study of the Tartar Strait  
*Far Eastern Federal University, Vladivostok, Russia*
20. Shkaberda O., Vasilevska L., Stochkute Yu., Lamash B.  
Forecast heavy rainfall in Kamchatka 9-10 December 2010 year's  
*Far Eastern Federal University, Vladivostok, Russia*
21. Vasilevskaya L., Lamash B., Platonova V., Krokhin V.  
Integrated forecast of strong winds at the Sakhalin Island using remote sensing data and WRF model  
*Far Eastern Federal University, Vladivostok, Russia; Far Eastern Regional Hydrometeorological Research Institute, Vladivostok, Russia*
22. Vykochko A.V., Mitnik L.M., Cherny I.V.  
Snow water equivalent in Siberia from Meteor-M No. 1 and Aqua microwave radiometric measurements  
*Pacific Oceanological Institute FEB RAS, Vladivostok, Russia; Scientific-Technological Center «Kosmonit» JSC «Russian Space Systems», Moscow, Russia*

<b>September 26</b> Wednesday	<b>Poster Presentations</b>
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23. Zabolotskikh E., Smirnova Yu., Mitnik L., Chapron B.  
 New GCOM-W1 AMSR2 Sea Surface Wind Speed retrieval algorithms for extratropical cyclone study: comparison with MetOp–A ASCAT product and platform station measurement data  
*Russian State Hydrometeorological University, Russia, St. Petersburg, Russia; Pacific Oceanological Institute FEB RAS, Vladivostok, Russia; IFREMER, Brest, France*
24. Zagumennov A.A.  
 Automatic system for monitoring of mesoscale ocean eddies using remote sensing data  
*Institute of Automation and Control Processes, Vladivostok, Russia*
25. Zavadskaya A., Yablokov V.  
 Using GIS and remote sensing for detecting recreational durability of geothermal areas: case study in the Valley of Geysers, Kronotsky Reserve, Kamchatka, Far East of Russia  
*Kronotsky State Natural Biosphere Reserve, Yelizovo, Kamchatka, Russia; Greenpeace Russia, Moscow, Russia*

<b>September 27</b> Friday	<b><i>Round Tables</i></b> <b><i>Closing Ceremony</i></b>
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**09:00 – 11:00      Round Tables**

Round Table A    Advanced microwave instruments for remote sensing (45th anniversary of Cosmos-243 launch, the first microwave radiometer in space, and 30th anniversary of Cosmos-1500 launch, the first real-aperture radar in space).

Chairman: Mitnik L.M., Prof., D.Sc., POI FEB RAS

Round Table B    Space services development in Far-Eastern region: acquisition, archiving, automatic processing and delivery; access to data processing technologies.

Chairman: Zaichko V.A., Ph.D., Adviser of Roskosmos Head, Federal Space Agency

Round Table C    Infrastructure of satellite data provision of scientific and applied activity in Asia-Pacific region: GIS applications, the use of high resolution satellite images and GPS/GLONASS data.

Chairman: Krasnopeeov S.M., Ph.D., TIG FEB RAS

**11:00 – 11:30      Coffee Break**

*(FEFU Library, 4th Floor, Lobby)*

**11:30 – 13:00      Conference Resolution**  
**Closing Ceremony**