

SOLab workshop “Remote Sensing and Modelling of the Atmospheric-Ocean System”

June 22-24, 2015

Venue: SOLab Conference hall

98, Malookhtinsky (nearest Metro Station “Novocherkasskaya”)

RSHU,

St. Petersburg

Agenda

First day: June 22, 2015

10:30-11:00 Coffee-Break

11:00 – 11:30 **Opening words.**

Valery L. Mikheev, the Rector: Welcome words

Bertrand Chapron: RSHU Mega-Grant Project: brief overview.

Young Scientists Session:

11:30 – 13:00 **Session Y1**

13:00-14:00 Lunch (RSHU cafeteria)

14:00-16:00 **Session Y2**

16:00- 16:30 Coffee Break

16:30-17:30 **Session Y3**

17:30-18:00 Discussions

18:30 - ... Conference Dinner at RSHU cafeteria

Second day: June 23, 2015

10:00-11:30 **Session X1**

11:30 – 12:00 Coffee-Break

12:00 – 13:30 **Session X2**

13:30-14:30 Lunch (RSHU cafeteria)

14:30-16:00 **Session X3**

16:00- 16:30 Coffee Break

16:30-18:00 **Session X4**

Third day: June 24, 2015

10:00-11:30 **Session X5**

11:30 – 12:00 Coffee-Break

12:00 – 13:30 **Session X6**

13:30-14:30 Lunch (RSHU cafeteria)

14:30-16:00 **Session X7**

16:00- 16:30 Coffee Break

16:30-18:00 Discussions and Concluding Remarks

June 25, 2015

Informal discussions at SOLab (optional)

List of Sessions

June 22, 2015

Session Y1:

Hossein Farjami. Sea surface wind and wind waves in the north of Indian Ocean by using satellite altimeter data.

Evgenia Zubkova. SAR-based properties of internal waves in the Kara Sea.

Yulia Smirnova. Climatology of polar lows over the Nordic seas based on satellite passive microwave data.

Session Y2:

Albert Murtazin, Karina Evgrafova. Sea ice edge identification using active microwave data from ASCAT scatterometer.

Anna Monzikova. Reconstruction of surface pressure fields from scatterometer wind fields.

Pavel Golubkin. Wind waves in tropical cyclones: satellite altimeter observations and modelling.

Igor Kozlov. SAR observations of large-scale internal waves in the Eastern Arctic.

Session Y3:

Alexander Myasoedov. Sentinel-1 SAR processing at SOLab: present state and case studies.

Vyacheslav Shebanov. Web application Syntool Arctic as a tool to perform sea surface monitoring in the Arctic region.

June 23, 2015

Session X1

E. Zabolotskikh, N.Reul, B.Chapron. C-band geophysical model function for wind excess emissivity derived from AMSR2 data analysis over the tropical cyclones of 2012–2014.

O. Aniskina, E.Zabolotskikh. Modelling of polar lows: a case study supported by satellite passive microwave observations.

D. Sergeev, Yu.Troitskaya, G. Baydakov, M.Vdovin, V. Papko, A.Kandaurov, A. Kuznetsova. Wind-wave coupling in the atmospheric boundary layer over a reservoir: field measurements, numerical modelling.

Session X2

Yu. Troitskaya, D.Sergeev, M.Vdovin, A.Kandaurov, O.Ermakova, V.Kazakov. Experimental investigation of effect of surface gravity waves and spray on heat and momentum flux at strong wind conditions.

G. Caulliez and R. Chemin. Short wind wave breaking processes and their impact on water surface flow

S. Badulin, V. Grigorieva, A. Gavrikov, V. Geogjaev, M. Krinitskiy, L. Aouf. A physical model of wind wave steepness: one step forward, two steps back.

Session X3

J. Johannessen. The GlobCurrent Project: Status, Results and Perspectives

V. Kudryavtsev, B. Chapron. Quad-pol SAR imaging of ocean current features.

J. da Silva. The multimodal structure of Internal Solitary Waves and their SAR image morphology: a way forward in internal wave research.

Session X4

H. Johnsen. Sentinel 1A ocean products - experiences, opportunities, and research challenges

T. Eltoft (University of Tromsø). CIRFA: Radar remote sensing of Arctic sea ice

F. Collard, F. Ardhuin and B. Chapron. "Sentinel1 SAR imaging of ocean swell in the Marginal Ice Zone"

June 24, 2015

Session X5

D.V. Ivonin, S. Skrunes, C. Brekke, A.Yu. Ivanov. Discriminating sea surface oil slicks using RADARSAT-2 co-polarization dual-channel SAR images

C. Brekke. Joint UiT/JPL/NASA oil spill campaign: first impressions

S. Ermakov (IAP RAS, N. Novgorod), J. da Silva, I. Sergievskaya, I. Kapustin. Remote sensing of surface films using radar. Field experiments.

Session X6

M. W. Hansen, V. Kudryavtsev, B. Chapron, C. Brekke, J. A. Johannessen. Wave breaking in slicks: impacts on C-band quad-polarized SAR measurements

Yu. Troitskaya, V. Abramov, A. Ermoshkin, E. Zuikova, V. Kazakov, D. Sergeev, A. Kandaurov. Laboratory modeling of geophysical model function for hurricane marine wind speed retrieval from depolarized radar return

Alexis Mouche and Bertrand Chapron. Preliminary results on cross-polarization measurements of the ocean surface from Sentinel-1.

Session X7

Yu. Yurovsky. Field study of Ka-band Doppler radar backscattering from the sea surface.

S.V. Pereslegin, Z.A. Khalikov. Bistatic quasi-mirror scattering of microwave signal on the sea surface. Ocean phenomena radar diagnostics from space – a new possibilities.

T. Belonenko (SPbSU, St. Petersburg). «Hollow» Waves in the Lofoten Basin of the Norwegian Sea.