



PROGRAM

December 17, 2012

- 15:00 – 18:15 Registration at GEOMAR, Building 4, Room 328 (4th floor)
- 19:00 Icebreaker party (GEOMAR, Building 8, Entrance hall)

December 18, 2012

Venue of all scientific sessions is:
Institute of Polar Ecology, Wischhofstr. 1-3, building 12, 4th floor

- 09:30 – 10:00 10th Workshop on Russian-German Cooperation: Laptev Sea System
 - Opening remarks -
- Prof. Dr. P. Herzig, Director of GEOMAR
 - U. Döring, Former Minister of Justice, Labour and European Affairs of Schleswig-Holstein and participant of the expedition TRANSDRIFT XV (2009)
 - I. Vorobyev, Vice Director of the Lena Delta Nature Reserve, Tiksi
 - Prof. Dr. L. Timokhov, Arctic and Antarctic Research Institute, St. Petersburg
- 10:00 – 10:20 Overview lecture: The Eurasian shelf seas in the Arctic's changing environment: frontal zones and polynya systems in the Laptev Sea
 Kassens, H.

Session I: Ocean/sea-ice/atmosphere observations in and around the Laptev Sea Polynya

Chairpersons: Hölemann, J.A. & Kirillov, S.

- 10:20 – 10:40 Overview lecture: Hölemann, J.A.
- 10:40 – 11:00 Coffee break
- 11:00 – 11:20 Helbig, A., Heinemann, G., Adams, S., Ernsdorf, T., Kramer, D., Krumpfen, T., Hölemann, J., Selyuzhenok, V., Kassens, H., Kirillov, S., Vízítov, V.:



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- Meteorological observations during Laptev Sea winter expeditions in the years 2008, 2009 and 2012
- 11:20 – 11:40 Kirillov, S., Dmitrenko, I., Hölemann, J.A., Bloshkina, E.: The oceanographic research in the Laptev Sea: an overview of major results obtained during the 5-years' journey with the “Laptev Sea System” project
- 11:40 – 12:00 Janout, M., Hölemann, J., Krumpfen, T., Kirillov, S., Timokhov, L., Kassens, H., Bauch, D., Wegner, C., Novikhin, A.: Year-round oceanographic moorings in the Laptev Sea: new insights regarding winter circulation, tides and sea ice drift
- 12:00 – 12:20 Ivanov, V.: Ocean heat effect on the observed and predicted reduction of Arctic sea ice
- 12:20 – 12:40 Krumpfen, T., Janout, M., Hodges, K.I., Gerdes, R., Girard-Arduin, F., Hölemann, J.A., Willmes, S.: Variability and trends in Laptev Sea ice outflow between 1992-2011
- 12:40 – 13:00 Willmes, S., Adams, S., Schröder, D., Bauer, M., Heinemann, G.: Ice production in the Laptev Sea: Leads vs. polynyas
- 13:00 – 14:30 Lunch break
- 14:30 – 14:50 Makshtas, A.P., Bogorodskiy, P.V., Kustov, V.Yu.: Land-fast ice in the Sogo Bay (Tiksi Gulf)
- 14:50 – 15:10 Selyuzhenok, V., Klagge, T., Krumpfen, T., Gerdes, R., Hölemann, J.A.: Mapping Laptev Sea landfast ice extent using AMSR-E passive microwave imagery
- 15:10 – 15:30 Sheykin, I.B.: Structure and texture of fast ice in the eastern Laptev Sea
- 15:30 – 15:50 Coffee break

Session II: Geochemical and sedimentological tracers from the Laptev Sea

Chairpersons: Bauch, D. & Novikhin, A.

- 15:50 – 16:10 Overview lecture: Bauch, D.
- 16:10 – 16:30 Bauch, D., Hölemann, J.A., Nikulina, A., Wegner, C., Janout, M.A., Timokhov, L., Kassens, H.: Summer tracer data from the Laptev Sea shelf: Coupling of local sea-ice melting and river water on the Siberian shelves



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- 16:30 – 16:50 Semeryuk, I., Bauch, D.: Identification and distribution of sea ice derived brine signals on the Laptev Sea shelf area based on stable oxygen isotope and salinity data
- 16:50 – 17:10 Wegner, C., Bauch, D., Hölemann, J.A., Janout, M., Wittbrodt, K., Novikhin, A., Abramova, E., Martyvno, F., Heim, B., Kirillov, S., Kassens, H., Timokhov, L.: Interannual variability of sediment transport dynamics on the Laptev Sea shelf during ice-free conditions
- 17:10 – 17:30 Vinogradova, E.: A riverine water share in the shelf halocline water
- 17:30 – 17:50 Taldenkova, E., Chistyakova, N., Ovsepyan, Ya., Stepanova, A., Bauch, H.A., Spielhagen, R.F.: Water mass changes and environmental transformation of the Laptev Sea continental margin since last deglacial times
- 18:00 – 19:00 Time slot for meetings of individual working groups if required
- 19:30 Conference dinner at the GEOMAR Cafeteria

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Session III: Ecological importance of frontal zones and polynyas in the Laptev Sea

Chairpersons: Wegner, C. & Abramova, E.

- 09:20 – 09:40 Overview lecture: Wegner, C.
- 09:40 – 10:00 Novikhin, A., Namyatov, A., Hölemann, J.A., Morozova, O., Bloshkina, E., Bauch, D.: The main results of hydrochemical studies in the Laptev Sea in 2007-2012
- 10:00 – 10:20 Chetverova, A., Fedorova, I., Potapova, T.: Geochemical characteristic of the Lena River delta, East Siberia, Russia
- 10:20 – 10:40 Hölemann, J., Heim, B., Novikhin, A., Loginova, A., Martynov, F., Janout, M., Koch, B.: Colored dissolved organic matter (CDOM) in the Laptev Sea: distribution and potential impacts



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- 10:40 – 11:00 Wittbrodt, K., Wegner, C., Hölemann, J., Kassens, H., Meier, S., Abramova, E., Martynov, F.: Dynamics of particle distribution during ice-free conditions on the Laptev Sea shelf
- 11:00 – 11:20 Coffee break
- 11:20 – 11:40 Juhls, B., Wegner, C., Hölemann, J., Heim, B.: Observation of wind-induced resuspension events in the Laptev Sea by remote-sensing and field data
- 11:40 – 12:00 Abramova, E. (no title yet)
- 12:00 – 12:20 Ovsepyan, Ya., Taldenkova, E.E.: Distribution of modern foraminiferal assemblages in the Laptev Sea
- 12:20 – 12:50 Kryukova, I., Polyakova, Ye., Abramova, E., Martynov, F., Novikhin, A., Kassens, H., Hölemann, J.: Spring time dynamics of sea-ice algae and phytoplankton in the West New Siberian Polynya (Laptev Sea, TRANSDRIFT XX expedition)
- 12:50 – 14:20 Lunch break

Session IV: Remote sensing and modelling of sea-ice and ocean dynamics in the Laptev Sea

Chairpersons: Heinemann, G. & Makshtas, A.

- 14:20 – 14:40 Overview lecture: Heinemann, G.
- 14:40 – 15:00 Adams, S., Willmes, S., Schröder, D., Heinemann, G., Bauer, M., Krumpen, T.: Improvement and sensitivity analysis of thermal thin-ice thickness retrievals
- 15:00 – 15:20 Antonova, S., Krumpen, T., Gerdes, R., Hölemann, J.A.: Spatial and temporal variability of landfast ice in the Laptev Sea
- 15:20 – 15:40 Ebner, L., Schröder, D., Heinemann, G., Adams, S., Willmes, S., Bauer, M., Timmermann, R.: Coupled and stand-alone high resolution simulations of polynya dynamics and physical processes in the Laptev Sea using the sea ice - ocean model FESOM and the atmosphere NWP model COSMO
- 15:40 – 16:00 Fofonova, V., Wiltshire, K., Danilov, S.: The simulations of circulation in the Laptev Sea using FVCOM



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- 16:00 – 16:20 Coffee break
- 16:20 – 16:40 Kohnemann, S., Heinemann, G., Schröder, D., Willmes, S., Köberle, C.: Investigation of regional sea ice budgets in the Arctic: the sea ice/ocean model NAOSIM compared with different CMIPS global climate models
- 16:40 – 17:00 Kulakov, M.Yu., Makshtas, A.P., Shutilin, S.V.: AARI-IOCM – coupled ice-ocean circulation model for the Arctic Ocean
- 17:00 – 17:20 Repina, I.A., Aniferov, A.A., Chechin, D.G.: Modelling and observation of the atmospheric boundary layer processes above
- 17:20 – 17:40 Schröder, D., Adams, S., Heinemann, G., Willmes, S., Ebner, L., Bauer, M., Timmermann, R.: A combined remote sensing – sea ice model approach to derive thin ice thicknesses within the Laptev Sea polynyas continuously for the winters 2007/08 and 2008/09
- 19:00 – 21:00 Weihnachtsmarkt Kiel

December 20, 2012

Meetings of individual working groups if required

December 21, 2012

Departure