

Meeting Summary
Results of the First Year of Atmospheric Observations at the International Tiksi
Hydrometeorological Observatory

The meeting “Results of the First Year of Atmospheric Observations at the International Tiksi Hydrometeorological Observatory” took place at the Arctic and Antarctic Research Institute (St. Petersburg, Russia) on September 18th - 20th, 2012. The meeting was attended by representatives of the Federal Hydrometeorology and Environmental Monitoring Service, the Russian Academy of Sciences, the National Oceanic and Atmospheric Administration (NOAA), the University of Colorado (Boulder, CO USA) and the Finnish Meteorological Institute (FMI). During the meeting 23 scientific reports were presented with analysis of the data from observations systems that have operated at the Tiksi Observatory since the opening in August, 2010; these results were assessed in the context of an international network of polar observatories. Detailed information about this International Polar Year network can be found at www.iasoa.org.

During the meeting additional discussions centered the Global Atmosphere Watch (GAW) program. Tiksi is currently registered as a regional GAW station and the intent is to fulfill requirements to elevate the status of Tiksi to a Global GAW station. It was also noted that the Tiksi Observatory is now a Baseline Surface Radiation Network (BSRN) station and an AEROSOL RObotic NETwork (AERONET) station. The Tiksi data is being collected and transmitted regularly from Tiksi and distributed on a regular schedule to AARI, NOAA and FMI. The BSRN data is passing through standard processing and control procedures at AARI and the first installment of data (through September 2011) has been submitted to the WMO World Radiation Center. The second installment of quality controlled BSRN data is scheduled for submission in October 2012. The BSRN data from Tiksi is compliant with BSRN standards. Another topic of discussion was the Tiksi contributions to the AMAP program. For one annual cycle within the 2010-2011 period, measurements made of surface pollutants and a complex analysis process is being completed.

Roshydromet and IFA specialists have received successful training during 2011 - 2012 at NOAA and FMI facilities. The meeting participants agreed upon the necessity of continuing training programs in the future.

It was also agreed that it is now necessary provide outreach information to the broader scientific community about the organization of work to support Tiksi as a Global GAW station. In particular the Russian, American, Finnish specialists were charged with preparing an article about Tiksi for the Bulletin of the WMO. The meeting participants agreed on plans to publish science results and a list of 10 articles topic based on data collected at the Tiksi Observatory since 2010 was prepared. In summary, the meeting participants highlighted the progress towards establishing a program of observations at the Tiksi Observatory and are now in agreement that a critical transition is occurring as Tiksi moves into full operations. Finally, the participants gained an appreciation of the full results of the spectrum of research performed in the first year official data collection.

