

Istokの観測状況の紹介、
ロシアイルクーツク(ISTP)訪問記
Introduction to Istok observation
visit to the site by ISTP people
(Oct 2017, Feb 2018 and Sep 2018)
and visit to ISTP (Irkutsk)
(March 2018)

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Istok observation by ISTP

- Group at Institute of Solar-Terrestrial Physics, Russian Academy of Sciences Siberian Branch has been carrying out the observation at Istok Station utilizing multiple instruments.
- ロシア科学アカデミーシベリア支部太陽地球系科学研究所(ISTP)のグループでは、Istok観測点において各種観測装置を用いた観測を実施しています。
- In October the instruments (riometer, camera and VLF receiver, owned by ISEE) were installed, as well as the Z-component induction magnetometer sensor (owned and operated by ISTP).
- 2017年の10月には観測機器(リオメータ、カメラ、VLF受信機、ISEE所有)が、誘導磁力計(Z成分、ISTP所有)とともに設置されました。
- In February some maintenance were made and the data copying was made.
- 2018年の2月には観測機器類の点検整備と蓄積されたデータのコピーが行われました。
- Both trips are made by 4 technical staff, including Victor Aleshkov and Alex Beletsky
- 上記2回の出張・現地作業は4人の技術職員により行われました。
- All the ISEE instruments are installed in the preexisting container. The new container is only partly constructed. There is also an old building (1979-) at the site but there is no central heating.
- ISEEのすべての観測機器は既存のコンテナ内に設置されました。新しいコンテナはまだ一部だけができています。1979年に建てられた建物もありますが、全館用暖房設備がありません。

Status of Camera



- Inside the separate thermostatic box on the top of the preexisting container.
- The dome is small but there is a plan to replace it with a bigger one.
- One problem is that the exposure time looks to be too long. Probably it is better to make it shorter. Unfortunately it cannot be done remotely, but it turned out that the because the main purpose is to capture faint light such as SAR arc, the present setting is ok.

Status of VLF receiver / induction magnetometer



- There are noises in the fixed frequencies both in the VLF and induction magnetometer data. Possible causes are charger, generator or inverter.
- Induction magnetometer has Z component (since the installation in October 2017). Alex Pashinin said that even if there is no Z component data the areas are filled with zero values, so that the data file size does not change after the Z component installation.
- The current file format converter program is not set for dealing with the Z-component. Alex Pashinin said he would check the program code and send the update program to Nishitani.
- VLF antenna is not covered with snow even in February 2018 (see the left photo).

Status of riometer



- The system works with the ISTP provided PC (ISEE PC was faulty) but they want to use the PC for another purpose.
- Kazuo Shiokawa asked them to return the ISEE PC, but it is very difficult if we consider the procedure of returning things temporarily imported.
- Kazuo Shiokawa asked ISTP (Alexey Oinats) to buy a new PC. The procedure is now in progress.
- Riometer antennas are not covered with snow even in February 2018 (see the left photo).

Meeting at ISTP, on March 23, 2018

Place: Meeting room of ISTP, Time: 1100-1215 (local time)

Participants:

ISTP - Alexey Oinats, Volodya Kurkin, Alexander Pashinin, Ravil A. Rakhmatulin, Victor Aleshkov, Alex Beletsky, Ekaterina Korzhova (secretary)

ISEE – Nozomu Nishitani



(from the left:
Victor, Ravil,
Nozomu, Alex P.,
Alexey O.,
Volodya and Alex
B.)

Visit to the Istok site by ISTP people (Sep 2018)

