

## ***RADIONET3***

## **CEPT SE40-MEETING**

SUBJECT	<b>CEPT SE40-meeting</b>
DATE	<b>2-12-2013</b>
PLACE	<b>Copenhagen (DK), ECO Offices</b>
PARTICIPANTS	<b>Axel Jessner</b>

## **BACKGROUND:**

The IRIDIUM satellite system is known to cause severe radio interference for radio astronomy. New measurements of the interference were made in Leeheim and evaluated with advice and software support from CRAF. The CEPT SE40 committee had requested CRAF to participate in the meeting to explain the procedures and the results.

## **HIGHLIGHTS:**

It was confirmed by Leeheim and CRAF that the new spectrometer is very sensitive (the sensitivity is better compared to spectrometer supplied by CRAF during the previous campaign). The measurements data can be saved directly in MATLAB format. The data has quite high resolution in time (52.4 ms) and frequency. Further processing in MATLAB can recalculate (re-bin) the data in order to provide the 1 sec time resolution and 20 kHz frequency channels referred to in Table 2 of ITU-R RA 769.

The measurements carried out by the Leeheim monitoring station confirmed earlier measurements results conducted in 2011. This gives an indication that operational parameters of Iridium have not been modified since then.

## **NEXT STEPS:**

SE40 decided to create a correspondence group working on the development of the measurement data and Report with the aim to report to the ECC later this year. It was agreed to take the report from Leeheim monitoring station (doc. SE40(13)025) as a basis for the draft Working document. The group will elaborate the text further and amend it with the results of data processing. ANFR was requested to investigate if it is possible to distribute the MATLAB code developed by former SE40 chairman in the course of previous measurements campaign to the participants of the correspondence group. The ANFR indicated that this will be possible and that the conditions will be submitted soon to the correspondence group.

The correspondence group will also check whether it is possible to include some pfd data in the draft Working Document for the next WGSE meeting (end of January 2014). It was agreed by the meeting to use the ECO Forum to develop further draft Working Document.