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To

GREAT-ESF

Gaia-FUN-SSO 2012 workshop Scientific report

In the framework of the science accompanying activities of the Gaia mission, we are setting up a ground-based network of observing stations for the astrometric follow-up of the critical Solar System Objects (SSO). We had organized a first workshop in 2010, and in 2012 we needed to organize a second workshop.

The objectives was to make meet researchers involved in this activity, who are generally out of the consortium (DPAC), and several researchers involved in the preparation of the mission. We intended to have exchanges upon the status of the Gaia mission, the status of the ground-based network, the status and activities of several observing stations (already registered or candidate to the registration).

Four announcements had been diffused and allowed us to prepare a scientific program (see <http://host.imcce.fr/gaiafun2012/>) including three time slots for discussion. The first day was devoted to talks by DPAC representatives (F. Mignard, T. Prusti, P. Tanga) and also to associated activities (Gaia Ground Based Optical Tracking, Photometry and spectroscopy Gaia science alerts, Space Situational Awareness). The two other days were devoted to the talks by several observers and by the team members of the Gaia-FUN-SSO coordination. The present operating mode of the network and the results obtained during training campaigns of observation carried out in 2011-2012 were in particular presented.

This workshop allowed us to update the knowledge of the participants concerning the operating mode of the Gaia mission in general but in particular in terms of alerts. It also

allowed to better know the ability of the represented observing sites to react after an alert will be triggered, and to estimate their ability to provide precise astrometric measurements. We had also exchanges upon the data policy and the tools which will be accessible for supporting the recovering from the ground of objects observed from the L2 point.

Three discussions were held:

- general context of the Gaia mission and Science Alerts
- the goal and activity of the Gaia-FUN-SSO network
- supplementary points, recommendations and conclusion

In total, 38 persons from 12 different countries have attended this workshop. 26 communications have been done. All the communications were very useful for engaging a new period of preparation of this network. Attendees have been asked to send the pdf files of their talks, now accessible on the web page (with credentials gaiafun / 20gaia12) at the address <http://host.imcce.fr/gaiafun2012/programme.php> and to send articles which will be published in the proceedings.

W. THUILLOT
Co-chair of the Gaia-FUN-SSO workshop

PS: The provisional budget had been overestimated due to the difficulty to know in advance how many grants would have been required. Consequently we have declared to GREAT-ESF expenses at a lower level than the grant awarded.