

Gaia-FUN-SSO Circular # 14

Dear Gaia-FUN-SSO participants,

Please find below news from the Gaia-FUN-SSO central node:

ews from Gaia SSO alerts

The Gaia mission is in the operating mode since several months now but the Solar System Objects alerts are not yet available...This delay is mainly due to the complexity of the short term process which identifies moving objects among millions of stars, discriminates the known and unknown objects, identifies the possible bound observations, and computes the bundles of probable orbital elements before triggering alerts. But, we are in the verification phase and we do hope to be able to solicit observers soon. Stay online!

The Gaia-FUN-SSO tool: gaiafunssso.imcce.fr

As mentioned in previous circulars, the only tool for receiving Gaia-FUN-SSO alerts is accessible at <http://gaiafunssso.imcce.fr/>. Therefore your registration on this page is necessary, even if you already sent us a registration sheet before...the reason is that you need to define your login/password and we need to know the characteristics of your location, your telescope and so on, in order to automatically prepare topocentric ephemerides and sky charts. We ask you to pay attention to this registration and to not forget the registration of these characteristics. Please complete your registration at <http://gaiafunssso.imcce.fr/>. Our ancient tool, the Gaia-FUN-SSO wiki (<https://www.imcce.fr/gaia-fun-sso/>), is now used only for dissemination of general information.

Collaboration with GBOT: new asteroid alerts!

The positioning of Gaia required the set up of a specific task, the Ground Based Optical Tracking activity (GBOT, web accessible at <http://gbot.obspm.fr/>), which regularly provides astrometry of the probe itself. During the analysis of the data currently provided by this task, the GBOT team is able to extract astrometry from moving objects. It appeared that GBOT can detect many asteroids and in particular several non yet identified ones! These objects are in the field of view of Gaia, toward the L2 point, therefore at their opposition. GBOT is not able to monitor these objects and the confirmation of detection of new objects, along with their complementary astrometry measurement, can be a task assigned to the Gaia-FUN-SSO network. We encourage the Gaia-FUN-SSO participants to contribute to this validation.

All necessary specific information related to the GBOT asteroids can be accessed at

<http://gbot.obspm.fr/pub/ASTEROIDS/>

Recent unknown asteroid observations are available at:

<http://gbot3-se.obspm.fr/pub/ASTEROIDS/mostrecent.php>

On this page, you can get the MPC formatted astrometry and you can use it for computing ephemerides

with one of the following tools:

<http://www.projectpluto.com/fo.htm>

<http://www.minorplanetcenter.net/iau/MPEph/NewObjEphems.html>

Results must be sent to the MPC...

With our best regards

William Thuillot & Benoît Carry
for the Gaia-FUN-SSO central node

PS: If for any reason...you wish to unsubscribe to this network let us know!