ILRS Missions Standing Committee (MSC) Meeting Minutes

20th International Workshop on Laser Ranging, Potsdam Germany

October 12, 2016

Potsdam Germany

Attendees: See attached Attendee list

Minutes of the meeting follow the Meeting Agenda

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(1) Opening/Welcome/Membership

(2) Renaming; WG->SC

(3) Revised Mission Support Request (MSR) Form

(4) Ongoing/Future Missions (5 min each)

- ICESAT-2 (Wetzel)
- QZS (Ohshima)
- BLITS-M (Sokolov)
- Lomonosov (Sokolov)
- GRACE Follow-On (Grunwaldt)
- PAZ (Grunwaldt)

(5) Closure

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1. Members are encouraged to discuss and vote on all Mission Support Request Forms (MSRF) that are submitted for consideration. The number of those responding is small and do not represent everyone.
2. Does the MSC need to consider adding to and removing names from the MSC membership? Replacing non-active members need to be reviewed.
3. Everyone has now been notified of the name change of this group from the Missions Working Group to the Missions Standing Committee. This is an IAG thing.
4. The new Mission Support Request Form (MSRF) is now operational and should be used for all new missions and follow-on missions per the following:
    a. New missions must complete entire form for consideration

b. Many/most follow-on and constellation missions will receive automatic approval, but still must submit any changes for MSRF for any new/changing information such as points of contact, minor changes to the mission and updated array information.

c. Other parts may be considered gray areas and still need to be refined.

5. Mission reports were provided by the following:

   a. ICESat-2 Mission Status – Presented by S. Wetzel

      i. Updated MSRF needs to be submitted.

   b. QZS Mission status for QZS-1 replacement, QZS-2,3,4 Project status, by Y. Ohshima

      i. QZS-2&4 will be automatically approved

      ii. QZS-3 is at a new orbit and must be approved.

      iii. All changes since QZS-1 should be added to each form, such as Points of Contact

   c. BLITS-M Satellite presented by A. Sokolov

      i. New larger BLITS has been developed for a 1500km, 83 deg Inc. orbit. The launch is set in 2017.

      ii. Another new satellite made of only glass, the GEODETIC Laser Autonomous Spherical Satellite (GLASS) is made entirely of glass and will be launched into a LAGEOS-like orbit once a launch vehicle can be found.

   d. Lomonosov (or Break nose) mission status was presented by A. Sokolov

      i. 2 tiny retroreflector arrays, 2 meters apart ad a demonstrator array for potential supporting of deployment status and confirmation on future satellites.

      ii. Currently getting and noting 2 separate returns, thus confirming knowledge of both arrays.

      iii. More tracking is needed, including multi-photon systems to at least support POD as well as science goals.

   e. Grace Follow-on was presented by L. Grunwaldt

      i. Grace has been on orbit for 15 years, well past it's 3 year planned lifetime

      ii. Grace Follow-on will continue the grace mission and will have a new laser ranging interferometer on the satellite as well as a new optical array design.

      iii. A MSRF is needed for this mission

      iv. Launch has been delayed due to ELV issues.

      v. New Launch vehicle is Falcon 9 but must ride share with Iridium. The launch window is December 2017 to February 2018.

f. PAZ mission status was presented by L. Grunwaldt
    i. This was formally known as SEOSAR.
    ii. Launch has been delayed due to ELV issues.
    iii. MSRF is needed for this mission.

6. Next meeting will be at off year workshop, if having, or at 21st workshop in Canberra in 2018.
7. The chair thanked everyone who came.
8. Meeting was adjourned.

Missions Standing Committee Meeting

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Attendees

Name	Affiliation	Email
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