

# IAF Committee Briefs

Summer 2022

## IAF SPACE OPERATIONS COMMITTEE (SOC)

### 1. Introduction

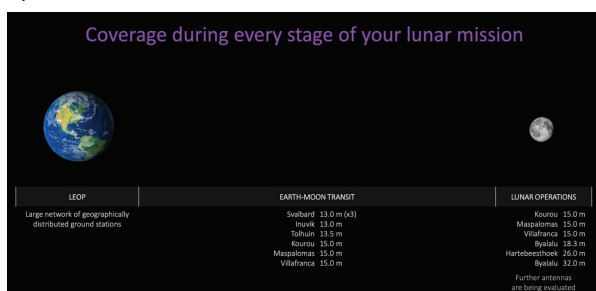
Despite the ongoing pandemic, operations of spacecrafts either were done from the usual operations centers, with large support from personnel working in the home office. Below are some highlights:

### 2. Latest Developments

#### ESA reports:

- ExoMars TGO Support to Mars 2020 on 18 February (2nd relay contact ca. 4h after landing)
- Solar Orbiter Venus Flyby 9 August (min altitude 7995 km)
- BepiColombo Venus Flyby 10 August (min altitude 550 km)
- Integral Mission Rescue 22/23-September
- BepiColombo Mercury Flyby 1 October (min altitude 200 km)
- Solar Orbiter Earth Flyby 27 November (min altitude 460 km)
- ESTRACK ground station support:
  - o Support of DART 24 November
  - o Galileo LEOP Galileo FOC-M9, SAT 27-28 4 December
  - o Support of James Webb (JWST) 25 December 2021
  - o OPSSAT Experiment Service 150 testing days throughout the year

KSAT presented their new concept for Lunar Mission operations:



### DLR highlights:



- EnMAP, a new hyperspectral Earth observation mission, now ready for launch (launched on 1 April)
- Mission "Cosmic Kiss" of ESA astronaut Matthias Maurer was well accepted by the German public; will be followed by Samantha Cristoforetti from Italy
- New moon analog facility LUNA at DLR premises in Cologne
- Successful mission operations preparation and execution despite the constraints imposed by the Covid-19 effects

### 3. Breakthroughs

The launch of JWST on 25 December, 2021 is certainly a milestone in the history of spaceflight.

### 4. Action plan for the year

The SpaceOps community is preparing for the upcoming **17<sup>th</sup> SpaceOps conference** ([SpaceOps 2023](#)) taking place from 6-10 March, 2023 in Dubai, United Arab Emirates, which will be hosted by the **Mohammed Bin Rashid Space Centre (MBRSC)**.