

JPL/DSN JAXA for EM-1 JAXA CubeSat payloads Omotenashi and Equueleus

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Serjik Zadourian
Mission Interface Manager
818 354-4272 office
Serjik.Zadourian@jpl.nasa.gov

- Selected NASA Missions

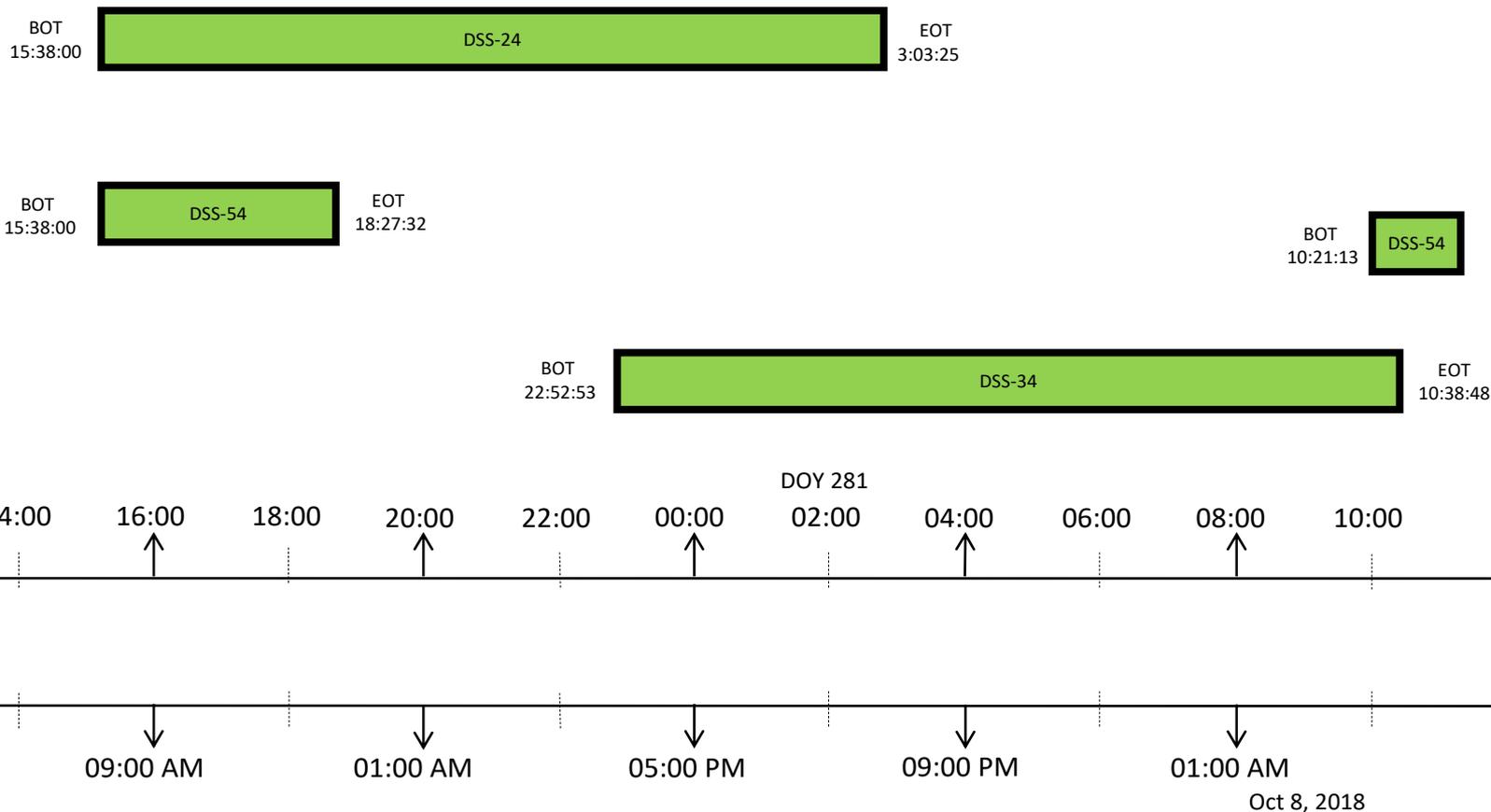
- Bio Sentinel
- Lunar Flashlight
- Lunar IceCube
- NEA Scout
- LunaH Map
- CuSP

- Foreign Missions

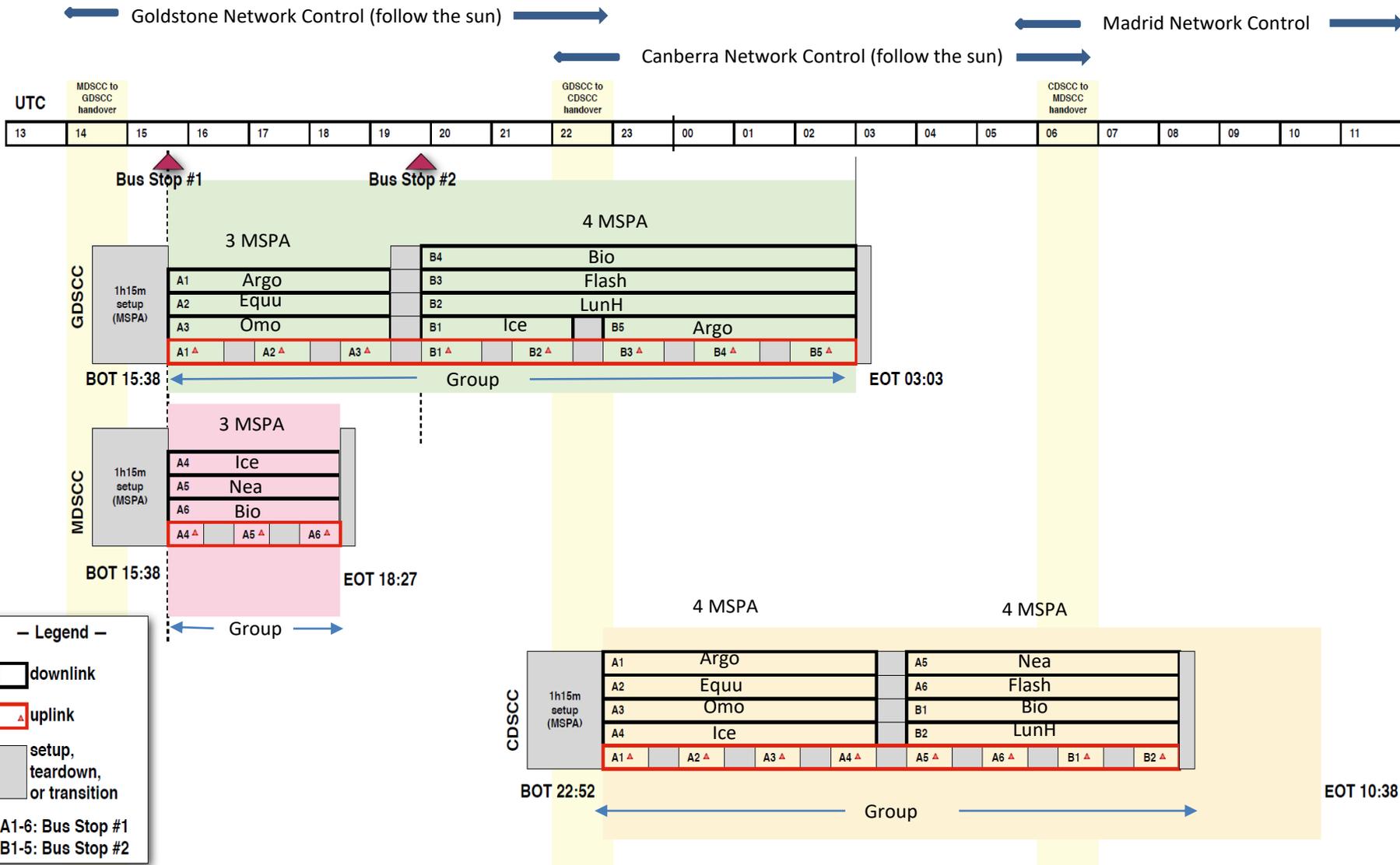
- Argo Moon
- **Omotenashi**
- **Equuleus**
- Cube Quests (DSN still to be determined June 2017 time frame)
 - CubeQuest 1
 - CubeQuest 2
 - CubeQuest 3

DSN View Periods Example

First Stations View based on Interim Trajectory from Secondary Payload Users Group 7 Oct 2018 Launch
 Pattern will be similar even for later launch dates (will verify with each new launch date and trajectory updates)



Example of MSPA support strategy for CubeSats



MSPA capabilities and constraints

- A grouped set of MSPA activities must be preceded by 1h15m setup and followed by 15m teardown
- There can be a maximum of:
 - 4 simultaneous downlinks
 - 1 uplink at a time
- Transitioning downlink or uplink from one spacecraft to another requires 30 minutes
- No spacecraft may leave and rejoin the group