Dear GEO colleagues,

We will have a two-day Joint Geostationary Science Team Meeting for GEMS, Sentinel-4, TEMPO, GeoCarb, and GLIMR. The meeting will be held September 26-27 at the Harvard-Smithsonian Center for Astrophysics in Cambridge, Massachusetts, just before the 2019 Joint Satellite Conference in Boston. The objectives are to foster exchange between the algorithm developers, to further discuss geostationary challenges, the approach to inter-mission consistency, joint validation opportunities, etc. Presentations will be uploaded to a single MacBook (Kelly’s). The meeting room is a Harvard classroom, so security is not an issue. No ID required.

We would like to keep this first meeting fairly casual, so the agenda tries to reflect that. In particular, for the second day each team will have an hour to organize their L2 presentations as they wish. Remote visitors should use Webex (invitations being prepared). The dinner on September 26 is at the Summer Shack, next door to the Alewife MBTA station. It is $48 each, payable to Kelly. Cash bar.

Dress is blue jean casual. We strongly suggest you don’t drive unless you are an experienced Boston driver. Also, parking is very limited here; it costs $17/day. The MBTA (subway) is much preferred. Uber and Lyft work well.

Best wishes, Kelly, Ben, Diego

Venue: Harvard-Smithsonian Center for Astrophysics

60 Garden Street, Cambridge, MA 02138 USA

**Joint Geostationary Science Team Meeting Draft Agenda**

**September 26** Classroom A-101, 42.3815N, 71.1286W

**0900-0920 Introduction and logistics**

**Mission implementation: status, technical challenges and data sharing**

0920-0940 GEMS (J Yoon, K-J Moon)

0940-1000 Sentinel-4 (B Veihelmann)

1000-1020 TEMPO (S Hall and K Chance)

1020-1040 GeoCarb (S Crowell)

**1040-1110 Coffee**

1110-1130 GLIMR (J Salisbury)

1130-1200 Discussion

**1200-1330 Lunch**

**Level-1b: calibration challenges and expected performance**

1330-1355 Sentinel-4, including geolocation from far far away (B Veihelmann, D Loyola, R Lutz)

1355-1420 TEMPO (X. Liu)

1420-1445 GEMS (D-H Ko)

1445-1510 GeoCarb (E Burgh)

1510-1535 GLIMR (J Salisbury)

**1535-1600 Coffee**

**Level-2: teams, retrieval challenges, expected performance, data product development**

1600-1700 GEMS L2 (J Bak, M Eo, H Chong)

1700-1800 TEMPO L2 (X Liu, G González Abad, K Chance)

**1800 Adjourn**

**1930 Clambake dinner, Summer Shack at Alewife Metro Station**

**September 27** Front door 42.3816N, 71.1279W, then downstairs

0900-1000 Sentinel-4 L2

 Team organization (D Loyola)

S4 Cloud product (D Loyola, R Lutz)

S4 approach to separation of stratospheric and tropospheric NO2 (D Loyola, A Richter)

S4 Approach to aerosol and surface reflectance (D Loyola, P Litvinov, TBC)

S4 Potential for SO2 layer height (D. Loyola)

S4 Approach to a priori forecast data from CAMS (D Loyola, P Valks, R Lutz)

1000-1030 GeoCarb L2 (C O’Dell)

**1030-1100 Coffee**

1100-1130 GeoCarb L2, continued

1130-1230 GLIMR L2 (J Salisbury)

**1230-1400 Lunch**

**Validation**

1400-1430 AC-VC Whitepaper recommendations (B Veihelmann)

1430-1500 Using S5P as an inter-calibration platform

1500-1530 Validation lessons from small campaigns (L Judd, J Al-Saadi)

**1530-1600 Coffee**

**1600-1700 Discussion**

**1700 Adjourn**