

Comet Interceptor Science Working Team Meeting #4

ESTEC, 9-11 April 2024

Room: Escape building, Dance room (exceptions mentioned)

9 April 2024

Working Group Meetings:

- 13:30 Target Identification Working Group (Escape building, Dance room)
Science Operations Working Group (Erasmus building, room NC229)
- 15:30 Coffee Break
- 15:45 Comet Environment Working Group
- 17:30 Adjourn

10 April 2024

Open SWT Meeting (Part 1):

- 09:30 Welcome, Introduction (M. Küppers, H. Kawakita)
- 09:40 ESA Project Update (N. Rando)
- 10:00 JAXA Project Update (R. Funase)
- 10:15 Instrument Lead Scientist update (emphasis on science aspects, Instrument Lead Scientists, 10 min per instrument, 20 min for DFP)
 - Science activities within the instrument team
 - Calibration aspects (synthesis of needs, approach, planning)
- Coffee break within the block
- 12:15 Report from the CISDC, including CISDC Interface Control Document (J. de Keyser, M. Albrecht, W. van Passel)
- 13:00 Lunch
- 14:15 Overview of nucleus, gas, dust, and plasma models currently available within the Comet Interceptor team (R. Marschall)
- 14:30 Reports from WGs (WG chairs, 30 minutes each)
- 16:00 Coffee Break
- 16:30 Target Identification Process: Proposal from TIWG (C. Snodgrass) + discussion

- 17:15 Adjourn
- 17:30 Meeting of the SWT Executive (main building, room CA005)
- 18:00 Social event (Winter garden, main restaurant area)

11 April 2024

Open SWT Meeting (Part 2):

- 09:30 Once lost soon-to-be-archived Vega 1 & 2 measurements - Data archeology and new cometary discoveries (F. Johansson)
- 09:45 A new brightening law for long-period comets (C. Holt)
- 10:00 Probability distribution for LPC total magnitude at 1 au (P. Lacerda)
- 10:15 The statistics and accessibility of Comet Interceptor identified virtual targets (M. Kidger)
- 10:30 Deciphering cometary outbursts: linking gas composition changes to trigger mechanisms (D. Müller)
- 10:45 Chemical and physical properties of cometary dust (J. Lasue)
- 11:00 Coffee break
- 11:30 Dusty Gas and Plasma Modeling in a Comet Environment (V. Tenishev)
- 11:45 Characterizing dust particles with photopolarimetry (E. Frattin)
- 12:00 Automatized image data generation for the Comet Interceptor (R. Dengel)
- 12:15 AOB, date of next meeting
- 12:30 Adjourn