

Click or tap here to enter text.

MEMO

Date:	09/01/2023	Ref.:	EUCL-EST-ME-8-011
From:	R. Laureijs on behalf of the EST	Visa:	
To:	ESA		
Copy:	Euclid Science Community		

Subject: Time Domain Studies with Euclid

At the 33rd plenary meeting of the Euclid Science Team (EST) held in ESOC, Darmstadt, on 11 and 12 October 2022, prof. Isobel Hook (Univ. Lancaster) presented the science case of the Euclid Transient Working Group. She pointed out that the repeated SelfCal calibration observations, which are foreseen during the Performance Verification Phase and nominal survey, would provide an excellent test case for time domain investigations.

Dr. Bruno Altieri (ESA/ESAC) presented on behalf of the Euclid Solar System Working Group the status of the preparations for the detection of solar system objects in the Euclid data.

EST recommendation

The EST acknowledges the potential of transient science during the Euclid nominal mission without putting additional requirements on the wide and deep surveys. The EST encourages the transient working group to use the data obtained from the SelfCal field for the sole purpose of transient research, thereby respecting the data processing and calibration timescales that can be supported by the Science Ground Segment. The EST recommends seeking synergies with the Euclid Solar System Objects working group for the development of independent transient pipelines and alerts to the community.