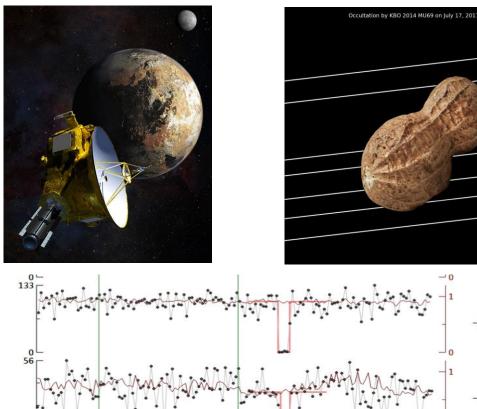


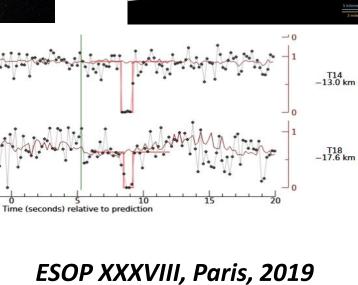
Observator

Occultation of 2014MU69 in Senegal

François Colas (IMCCE, Obs de Paris, Lucky star) And all the Ultima Thule occultation teams APL (Senegal, Colombia and Algéria)

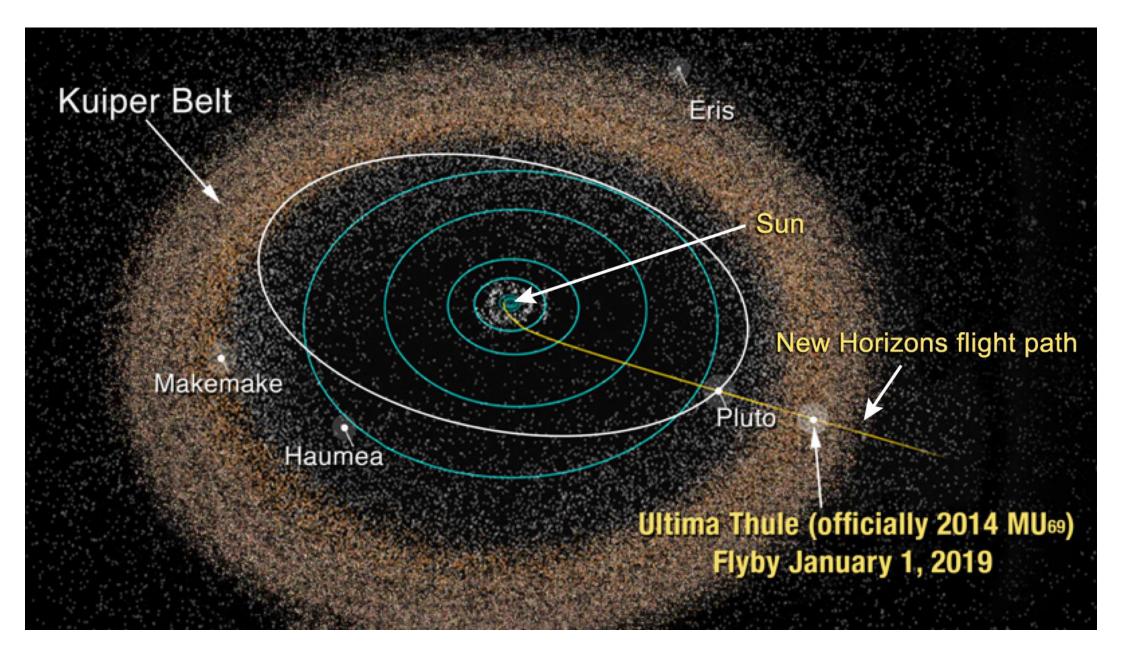








New Horizon Extended Mission to (486958) 2014 MU69



Goals of the occultation before New Horizon fly-by

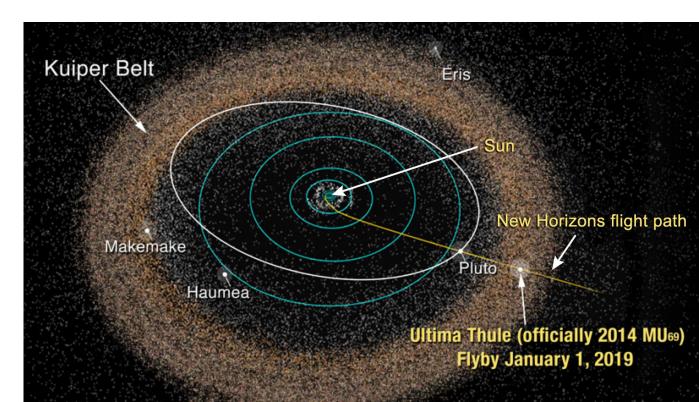
1) Size and albedo

The object magnitude (27 !) was barely known but is important for the space scraft schedule

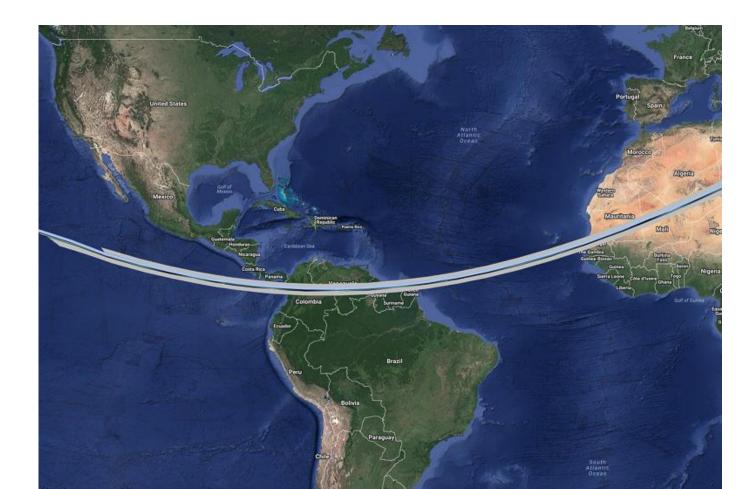
- Exposure time
- Orientation of the cameras
- Field of view

2) Orbit estimation

As the asteroid was descovered late it's Orbit was poorly known, especially it's heliocentric Distance.



Occultation path over Colombia, Sénégal and Algeria



New Horizon Extended Mission to (486958) 2014 MU69 Needed an armada of 25 telescope along the occultation path !!!



Colombian Team

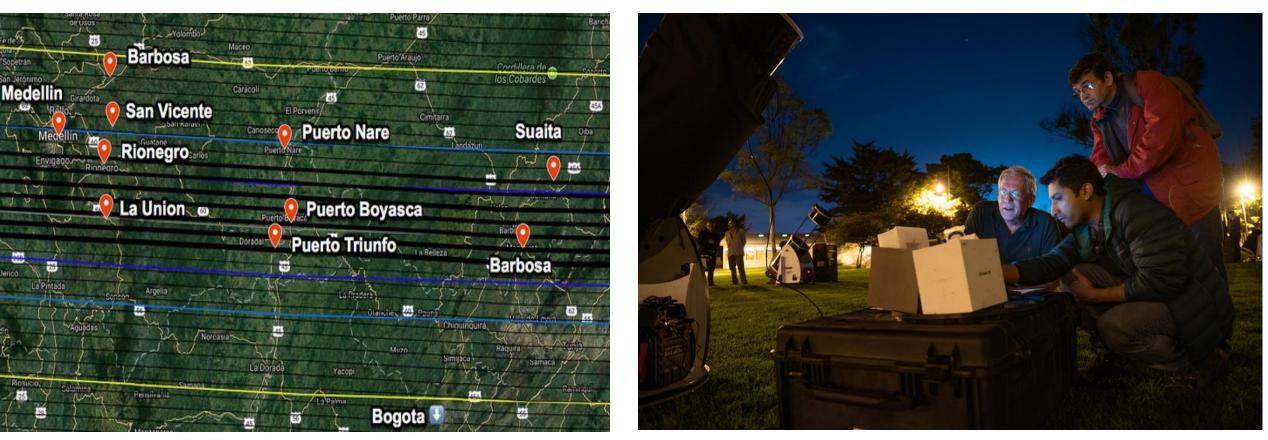


Rodrigo Leiva and the Colombian team



Diana Rojas (Asociacion de Astronomia de Colombia) with Pablo Escobar telescope !!!

Colombian Team



The Colombian plan

Training

Colombian Team



More images on http://www.eaubergine.com/images/MU69_Colombia_Aug18/

Algerian Team



BABA AISSA Djounai (Algiers Observatory)

The observation Team

Algerian Team



Observation location near Tamanrasset 23 ° 26'38 "N 05 ° 05'33 "E Celestron 11 CGEM telescope with the Watec 910HX-RC CCIR





Visit of science minister of Senegal

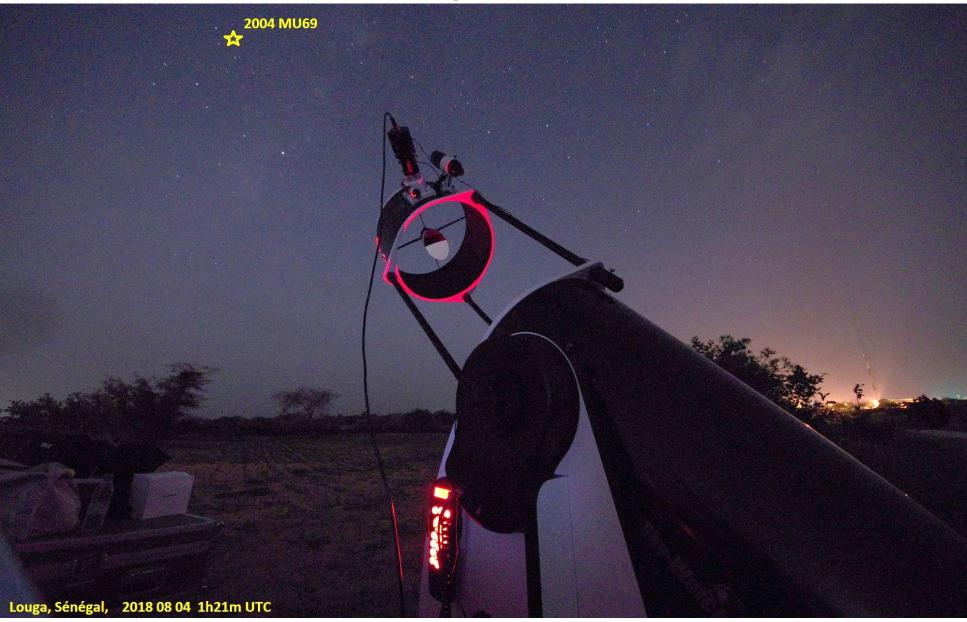
Senegal Team !!!

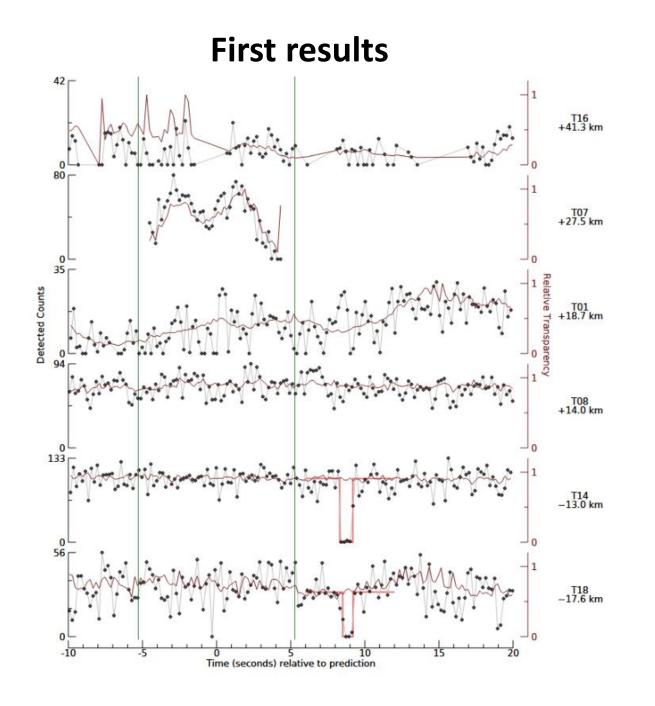






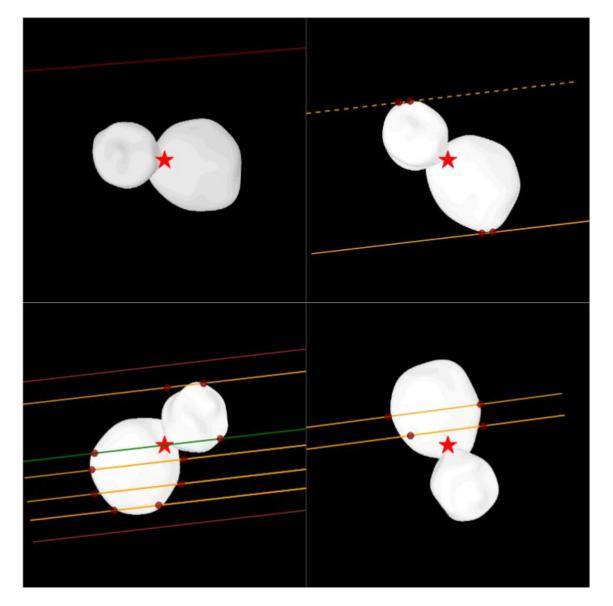
Louga station







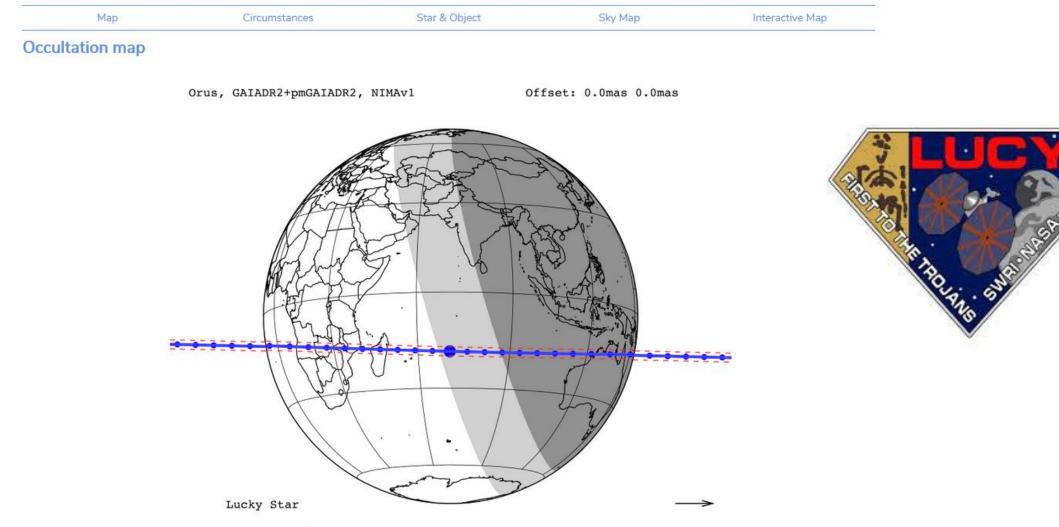
Four combined occultations



Buie et al

Next US Armada target : Orus (LUCY target)

Occultation by Orus (2019-11-04)



yyyy mm dd hh:mm:ss.s RA_star_J2000 DE_star_J2000 C/A P/A vel Delta G* RP* H* 2019-11-04 13:35:56.4 21 11 11.5727 -07 31 59.417 0.327 181.36 10.32 4.9757 12.4 11.7 10.1