

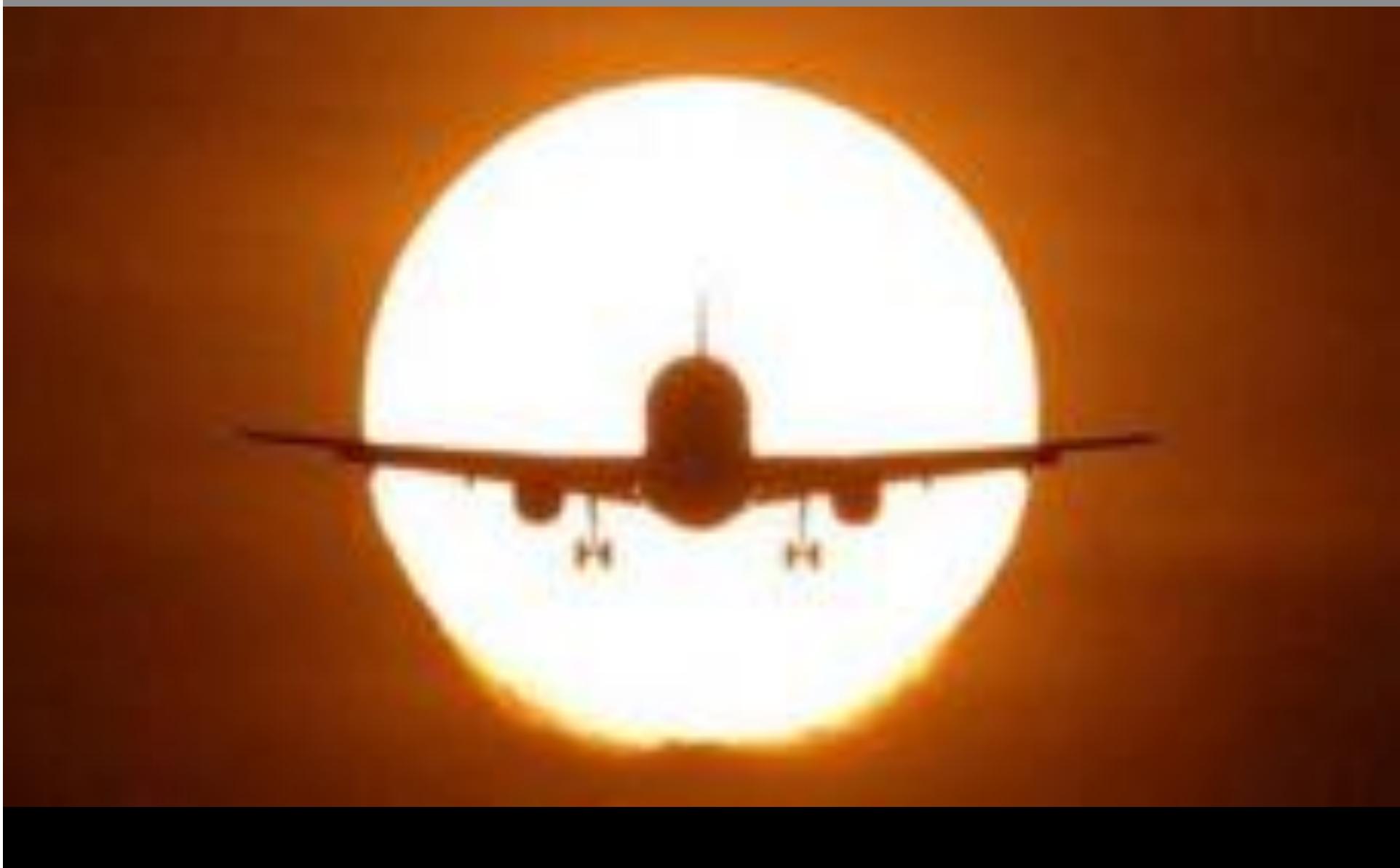
Rosetta: una missione pazzesca...



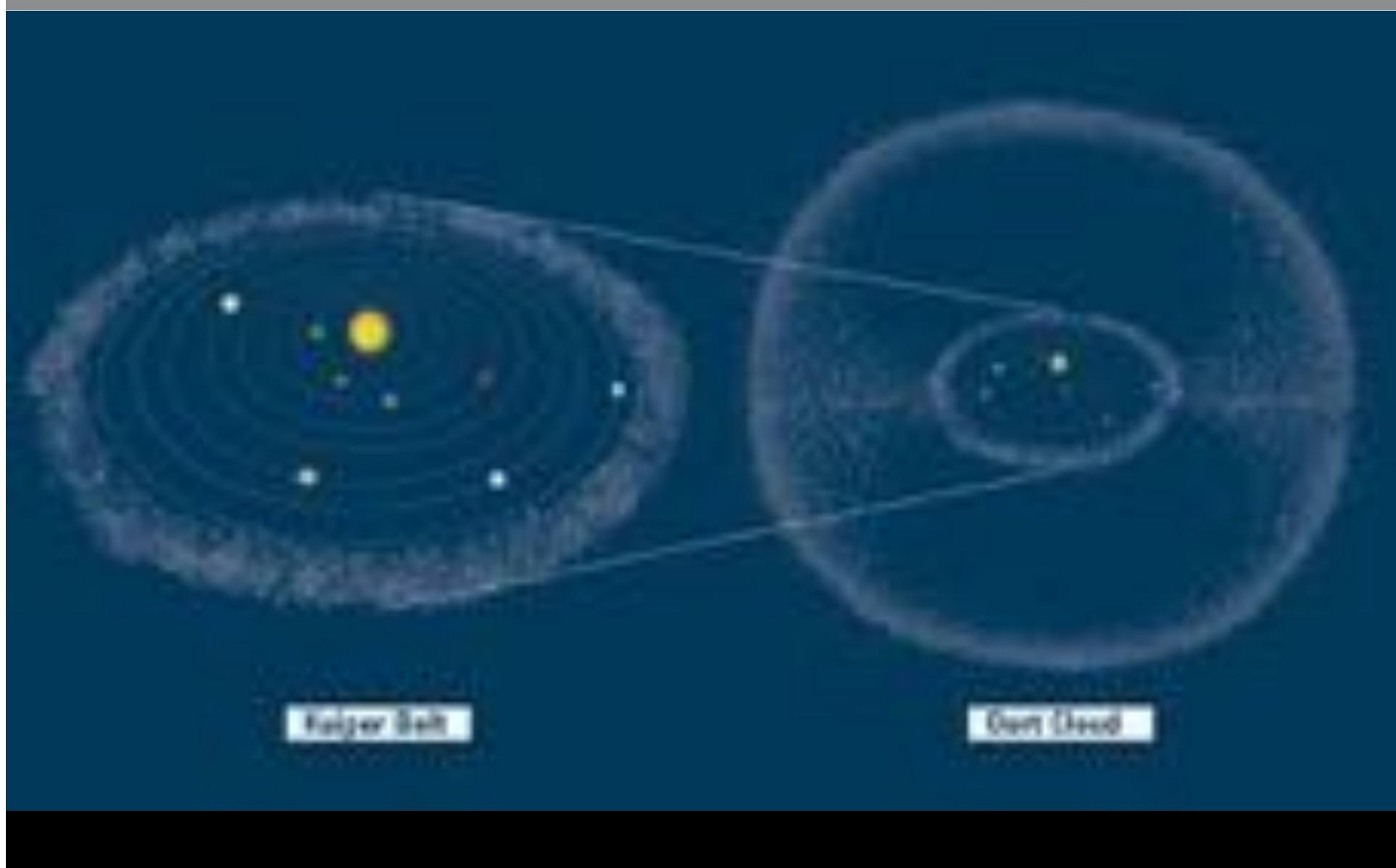
Alessandro Ercolani – European Space Agency (ESA)
Sabato 14.05.2016 – INFN Open Labs – Frascati (Roma) - Italy



Distanze e velocità

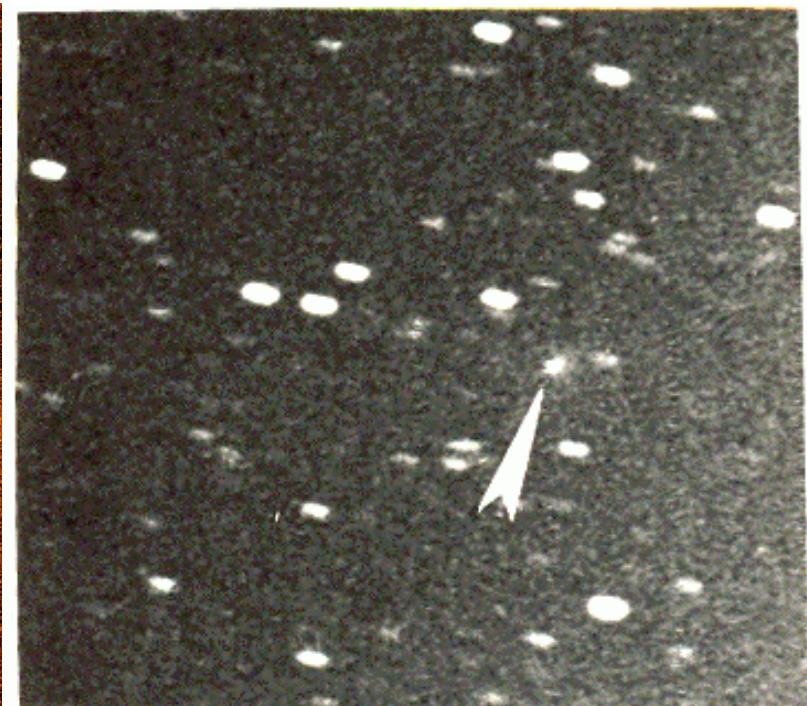
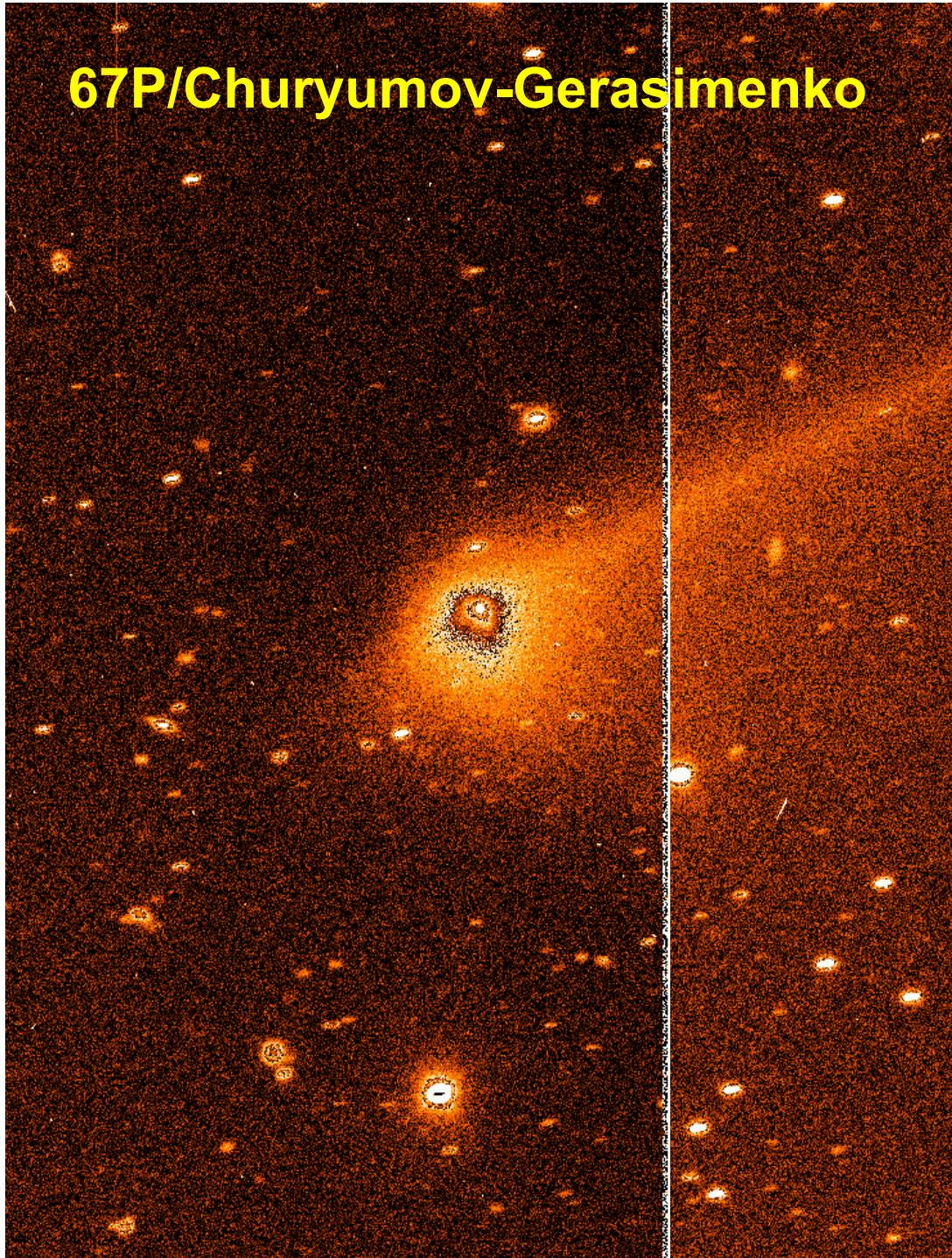


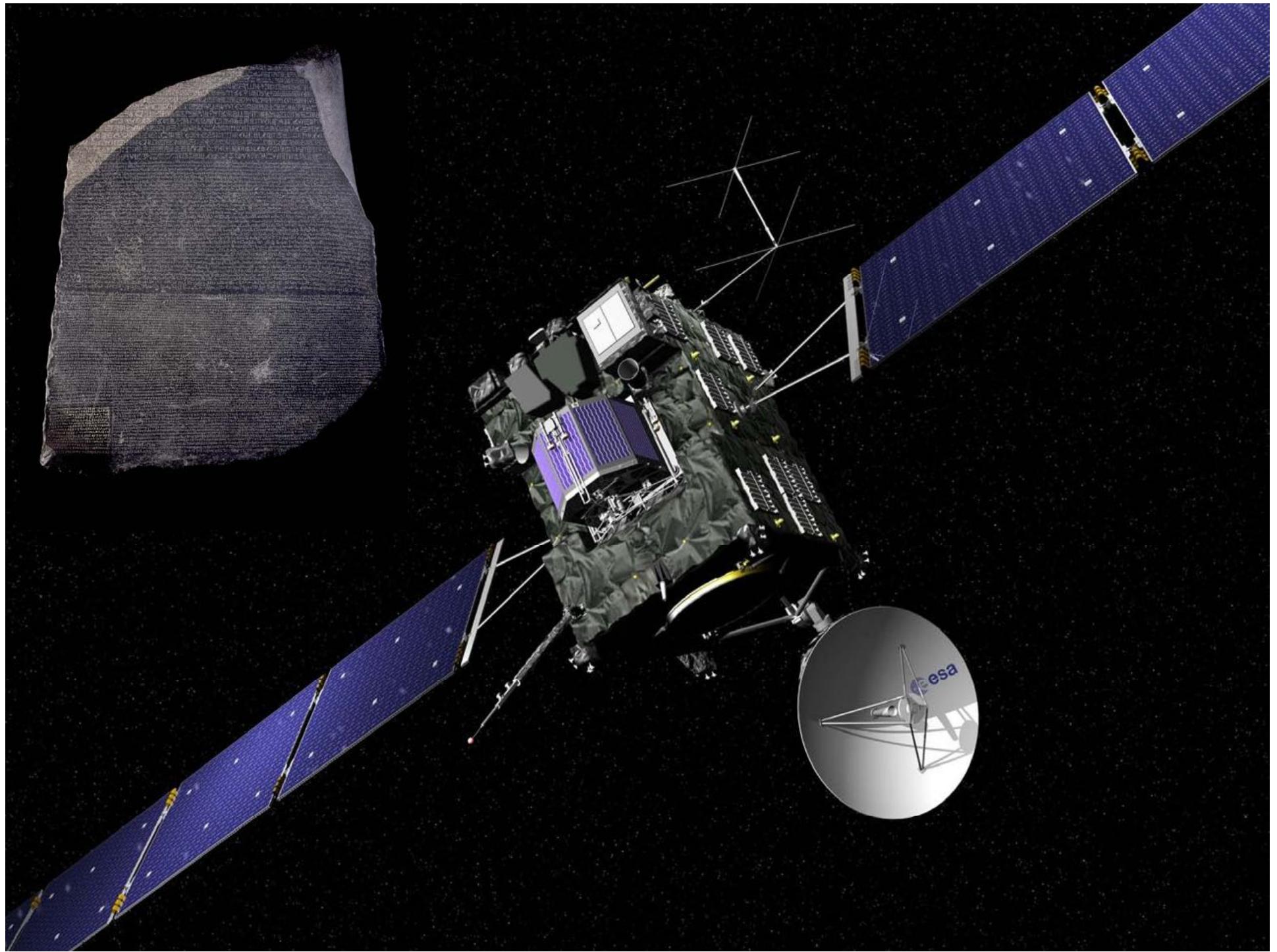
Il Sistema Solare e le comete





67P/Churyumov-Gerasimenko





Rosetta: dati tecnici

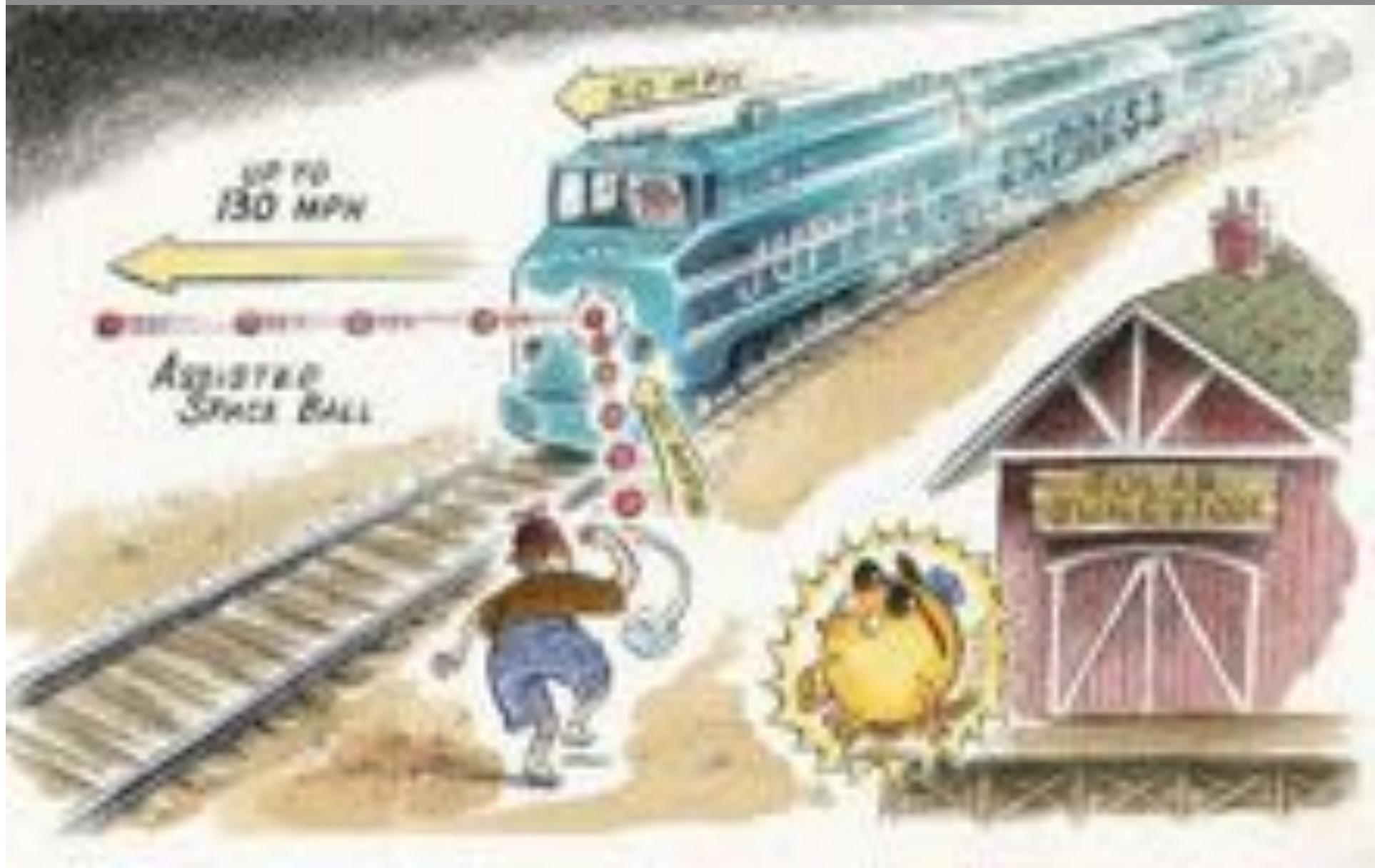


actiaspace

00.21



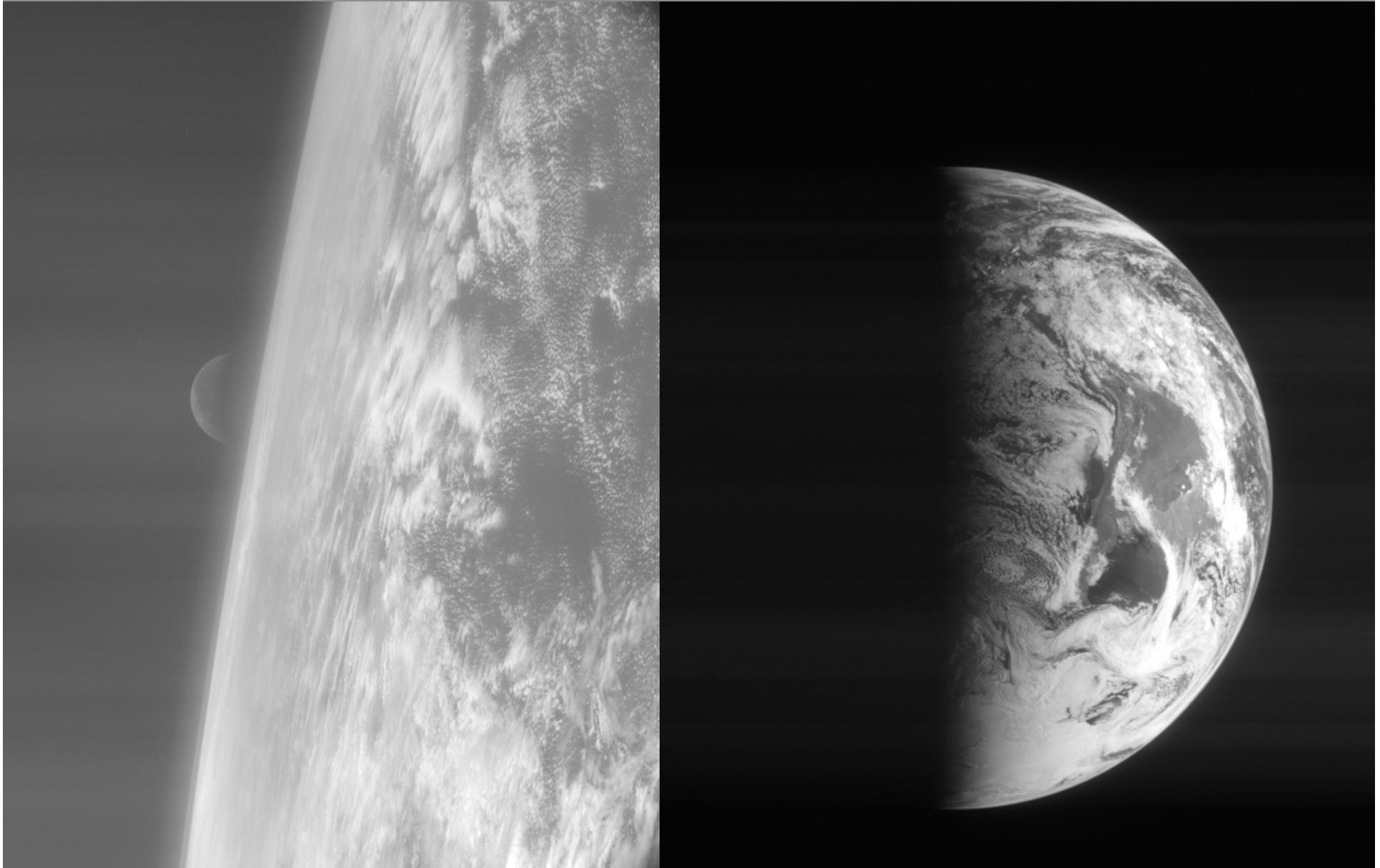
Biliardo spaziale



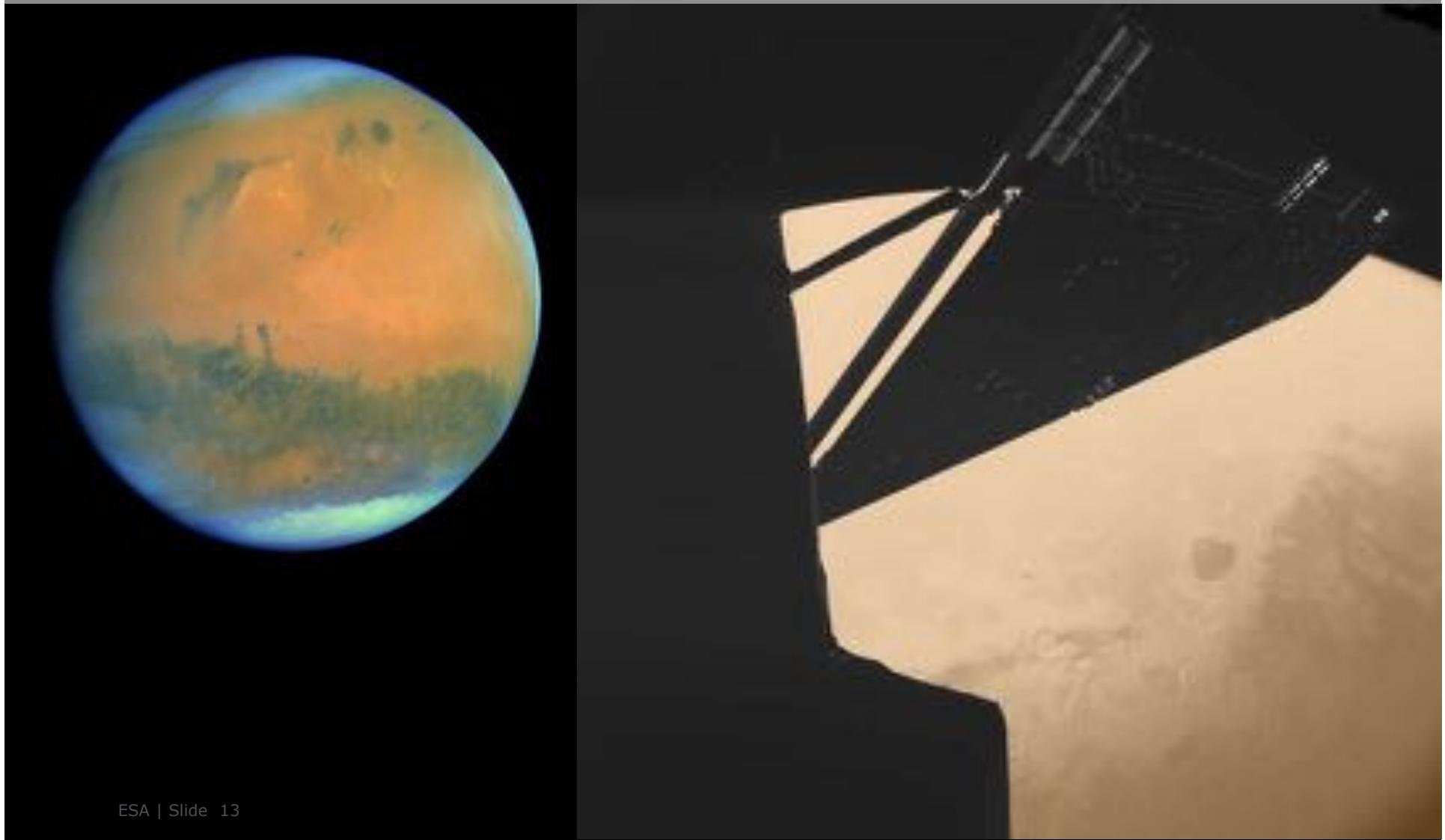
Il lungo viaggio



Primo sorvolo della Terra (4/3/2005)



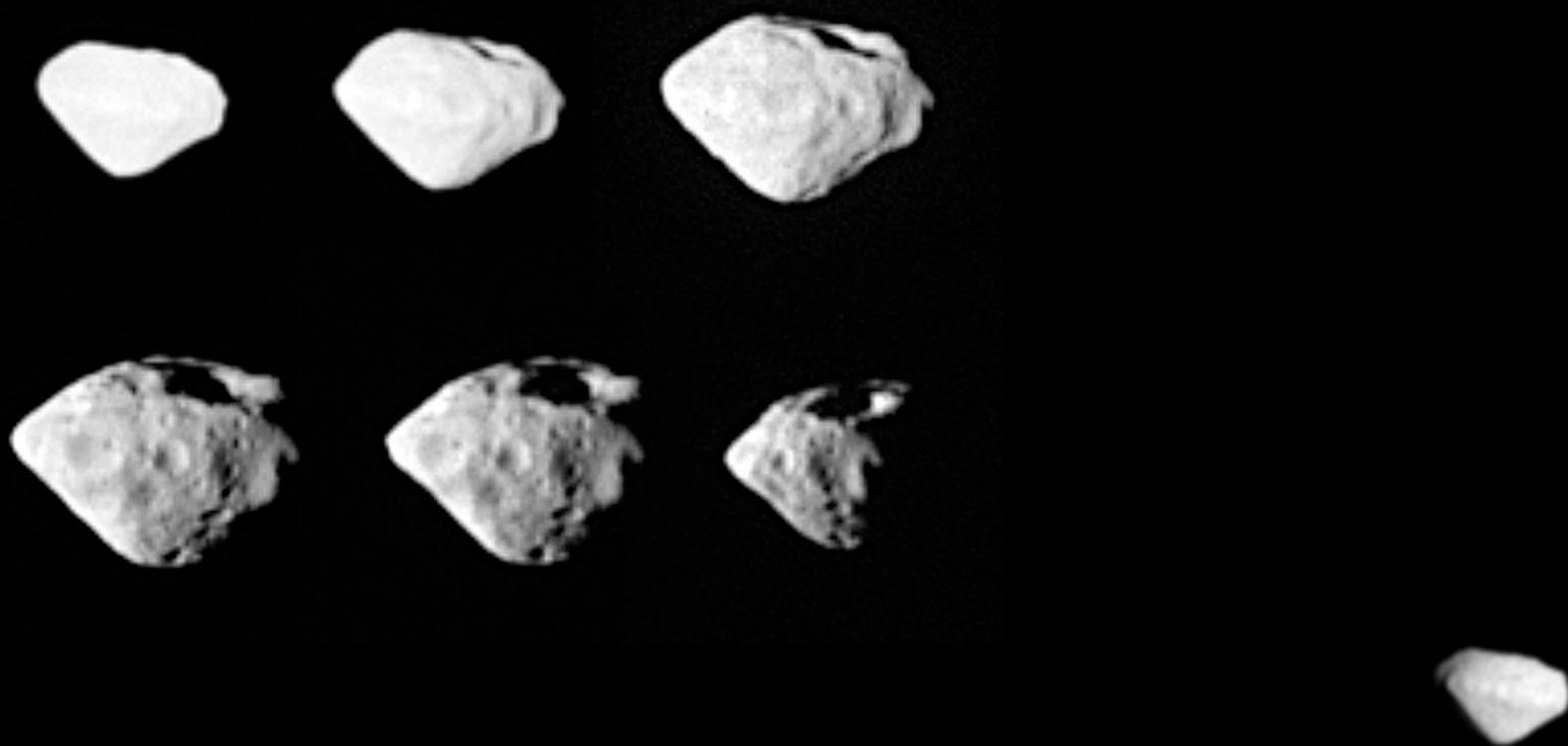
Sorvolo di Marte (un selfie spaziale!) 2007



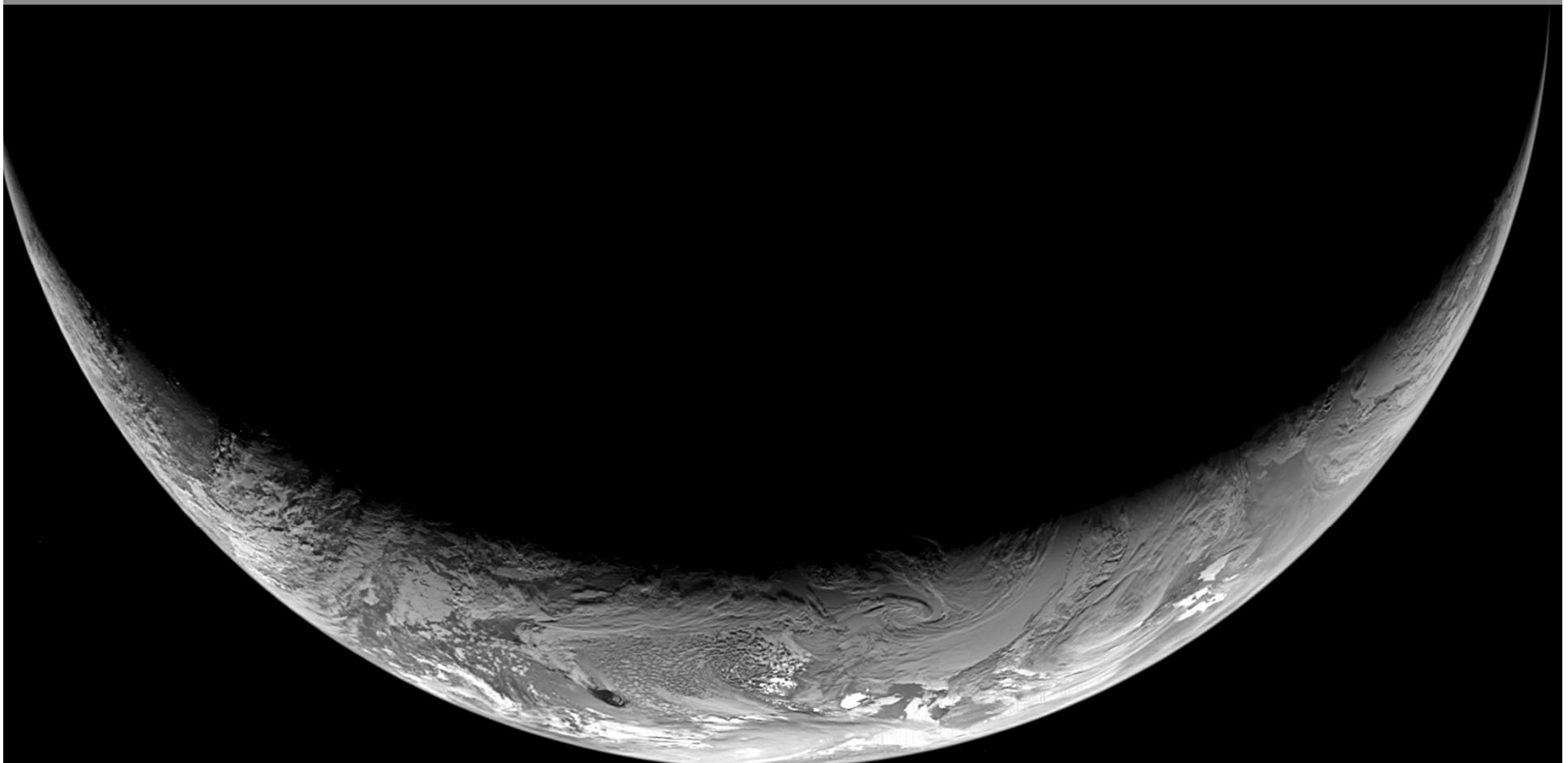
Secondo sorvolo della Terra – 13 Nov 2007



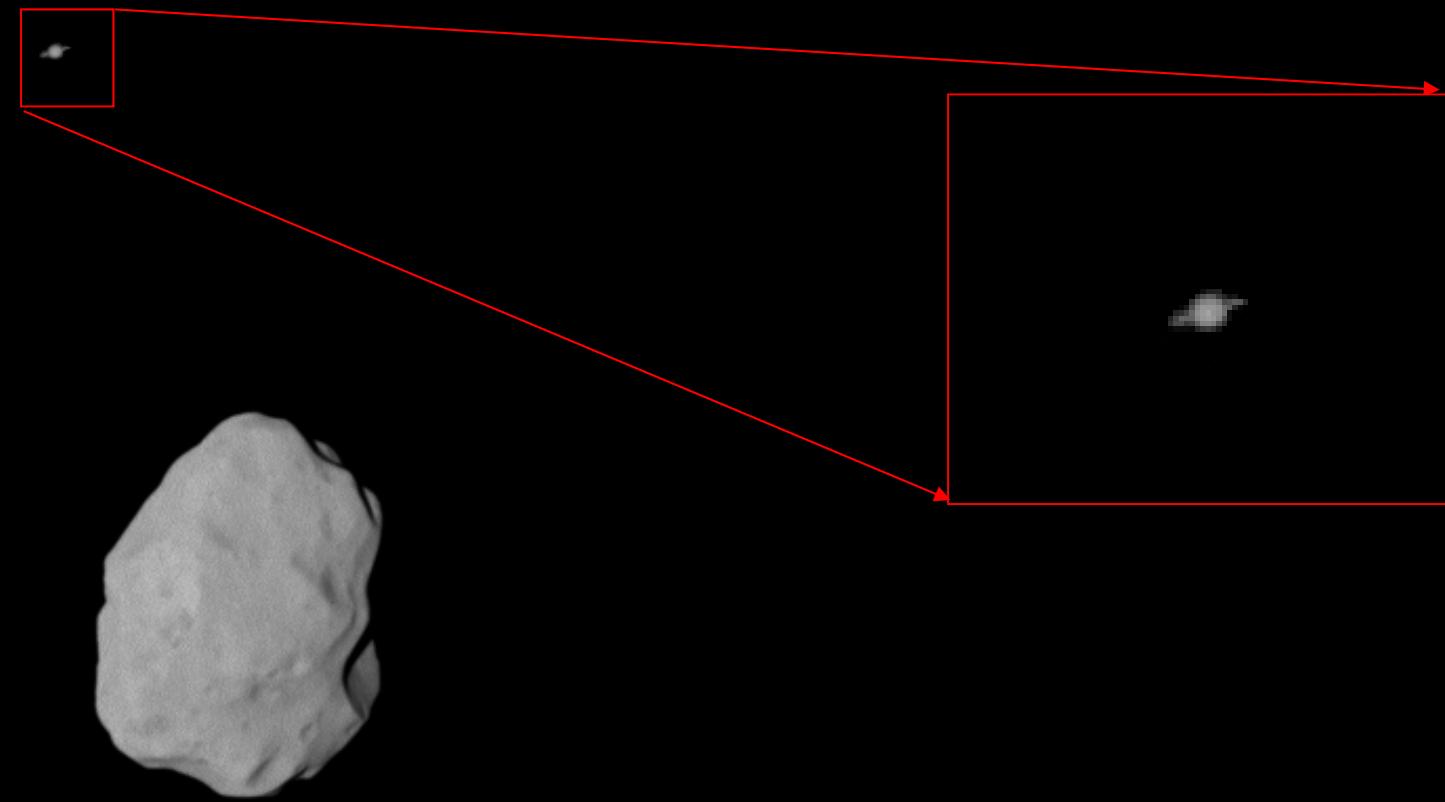
Sorvolo asteroide Steins – 5/9/2008



Terzo sorvolo della Terra – 13 Novembre 2009



Asteroide Lutetia (con sorpresa!)

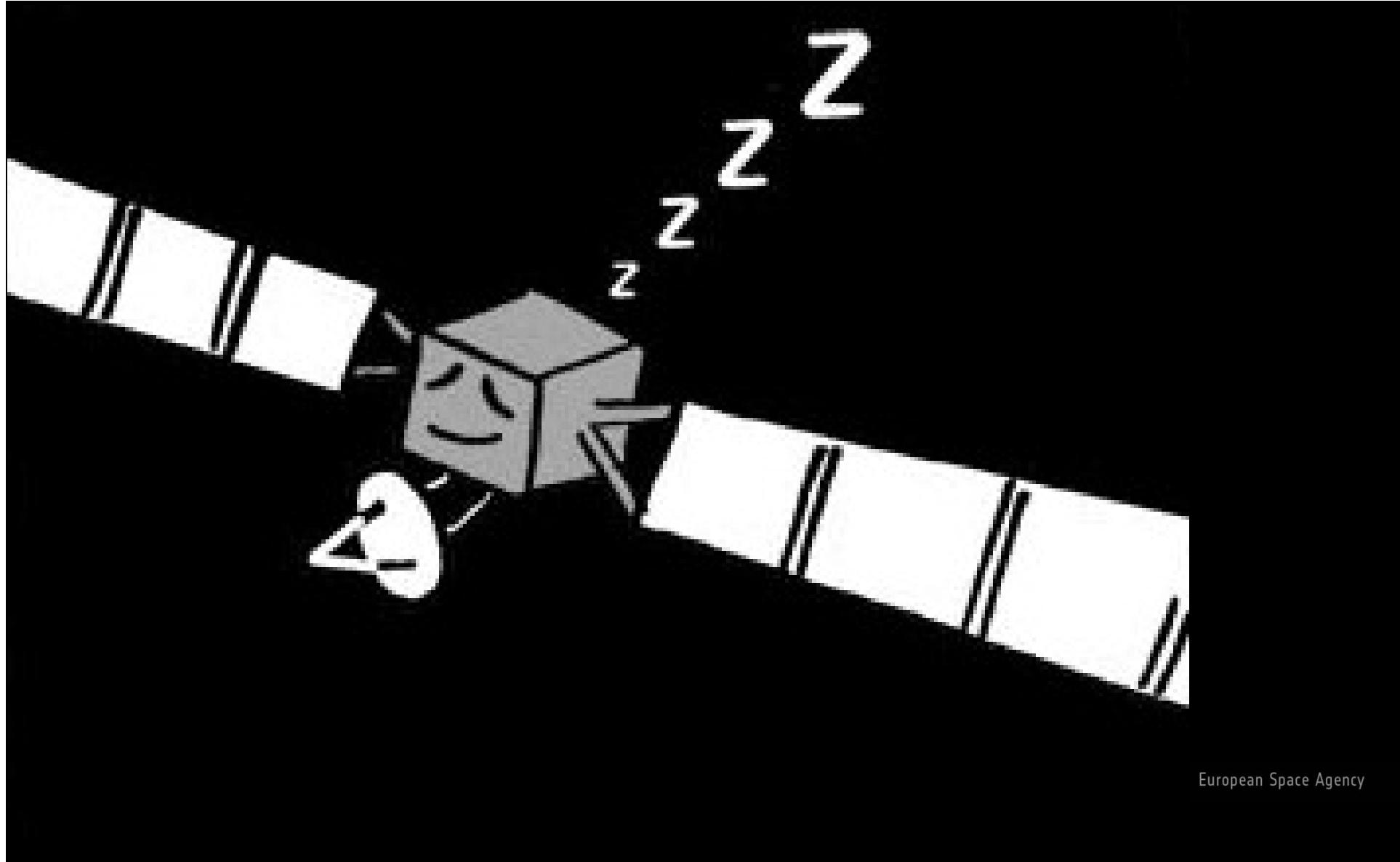


European Space Agency

Sorvolo asteroide Lutetia – 10/7/2010



Ibernazione



European Space Agency

Il risveglio – live dall'ESOC





Bersaglio avvistato!

Credits: ESA 2010 MPS for OSIRIS Team/ MPS/ UPD/ LAM/ IAA/ RSSD/ INTA/ UPM/ DASP/ IDA

67P ci aspetta ed e' attiva!!!



Credits: ESA 2010 MPS for OSIRIS Team/ MPS/ UPD/ LAM/ IAA/ RSSD/ INTA/ UPM/ DASP/ IDA

28 giugno 2014



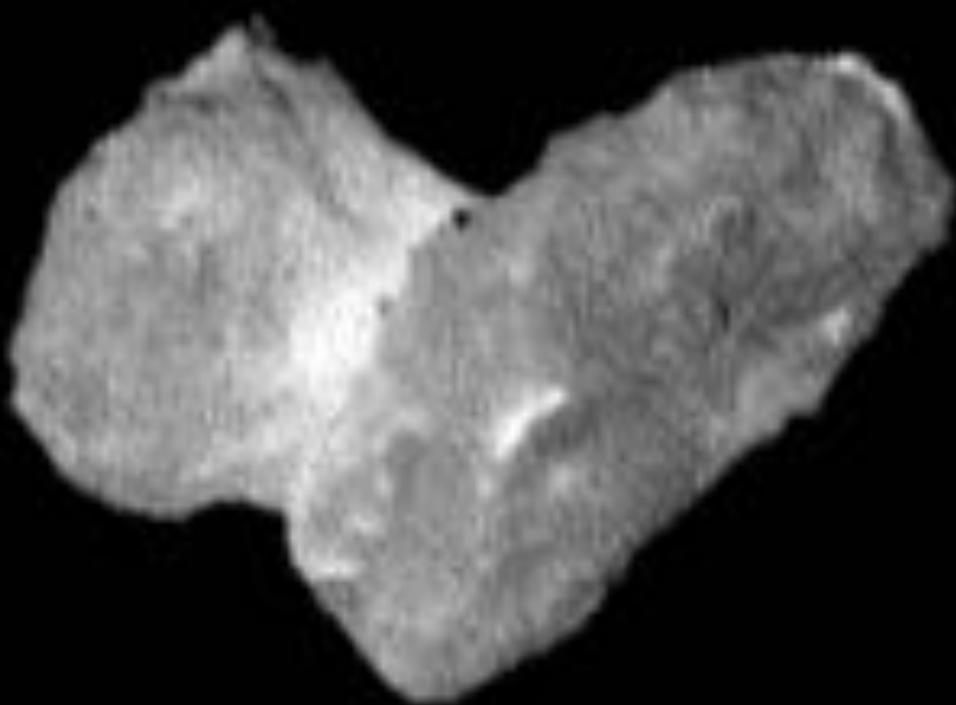
14/7/2014: sorpresa!



14 July 2014
Rot = 0 deg



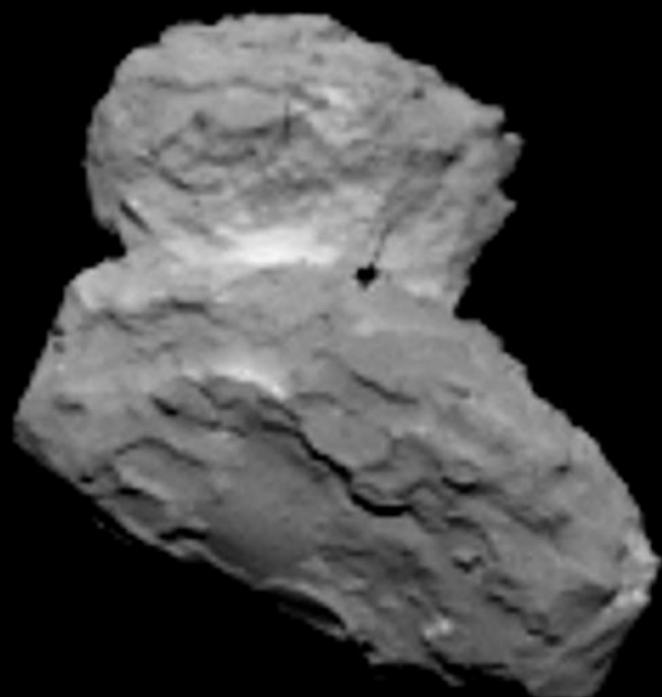
29/07/2014 – 2000 Km away



2 km

ce Agency

02/08/2014 – 1000 Km away



03/08/2014 – 300 Km away



04/08/2014 – 230 Km away



Animazione Navigation Camera





ESA | Slide 30

European Space Agency

Credits: ESA 2010 MPS for OSIRIS Team/ MPS/ UPD/ LAM/ IAA/ RSSD/ INTA/ UPM/ DASP/ IDA

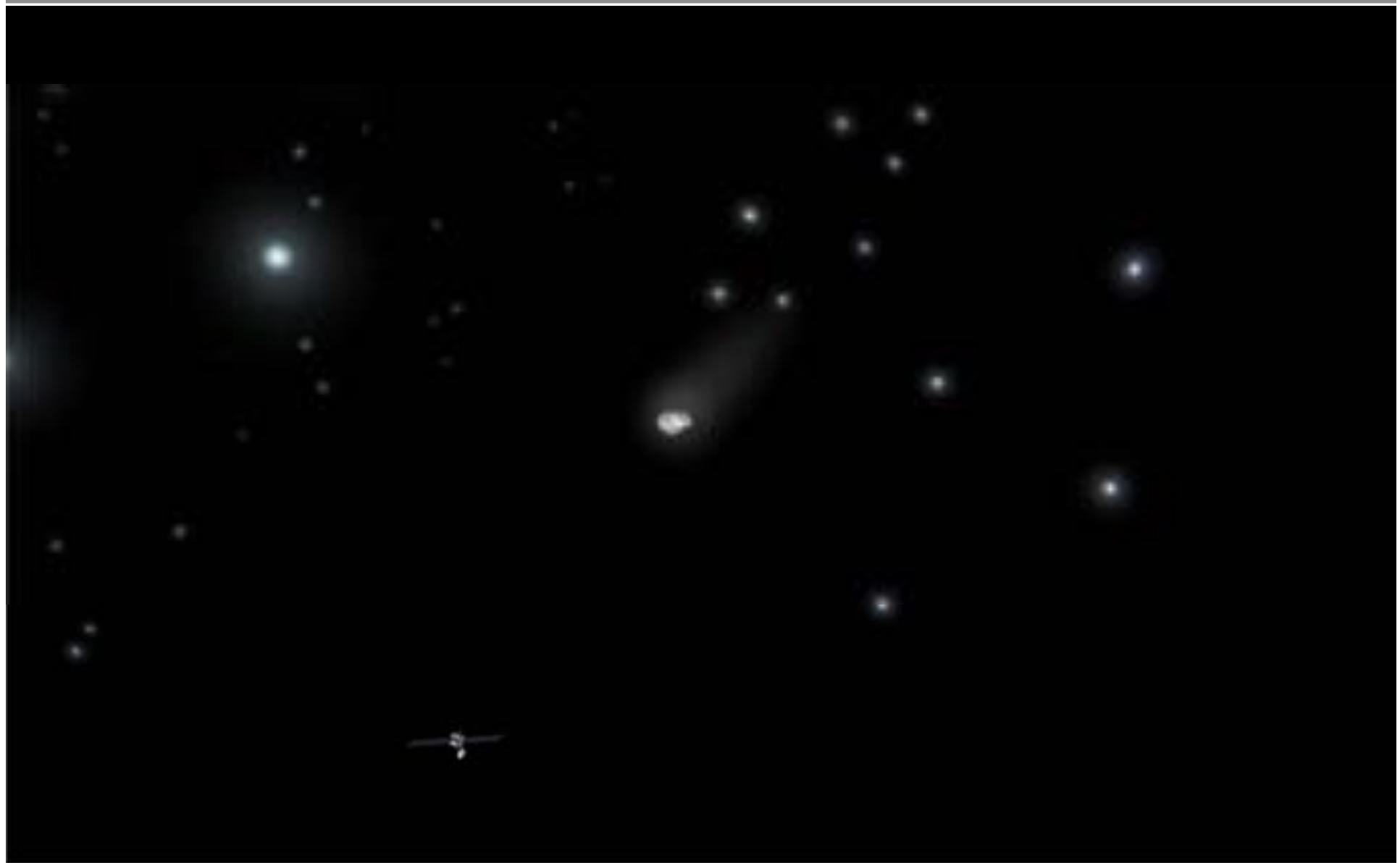


ESA

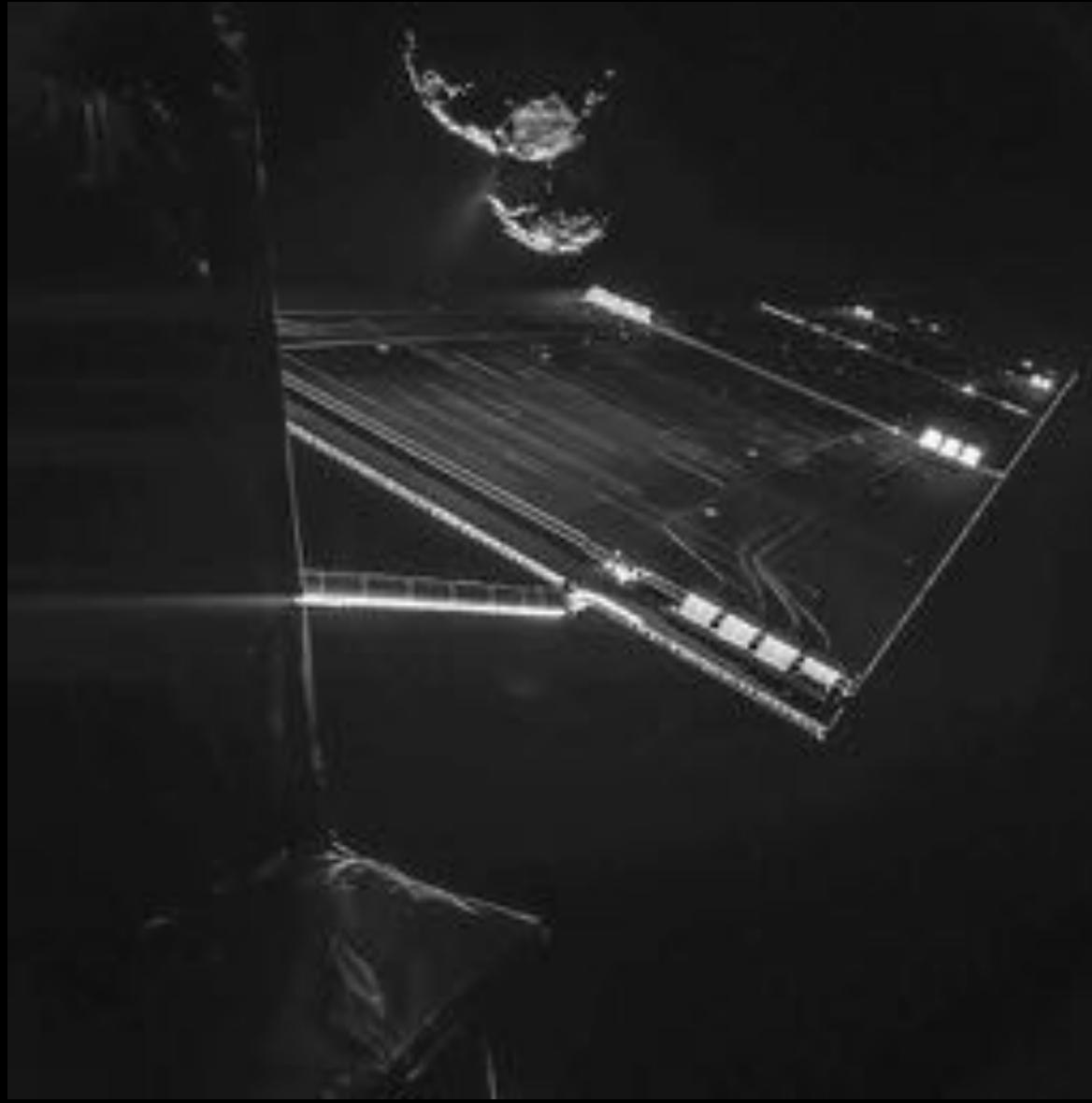
European Space Agency

Credits: ESA 20

Cattura della cometa – entrata in orbita



Siamo arrivati: un selfie con Chury!



Quanto è grande la cometa?

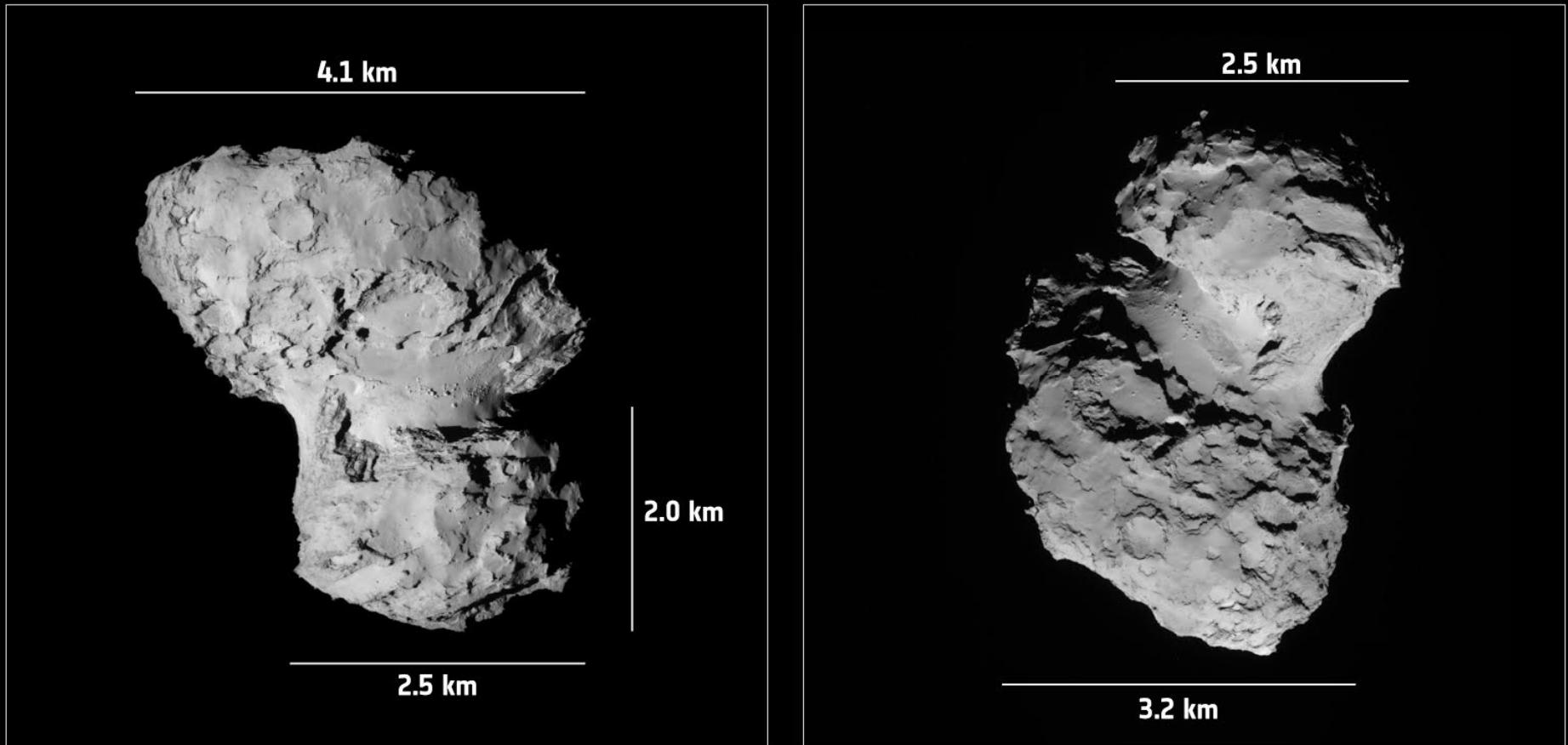


Image: ESA/Rosetta/NAVCAM; Dimensions: ESA/Rosetta/MPS for OSIRIS Team MPS/UPD/LAM/IAA/SSO/INTA/UPM/DASP/IDA



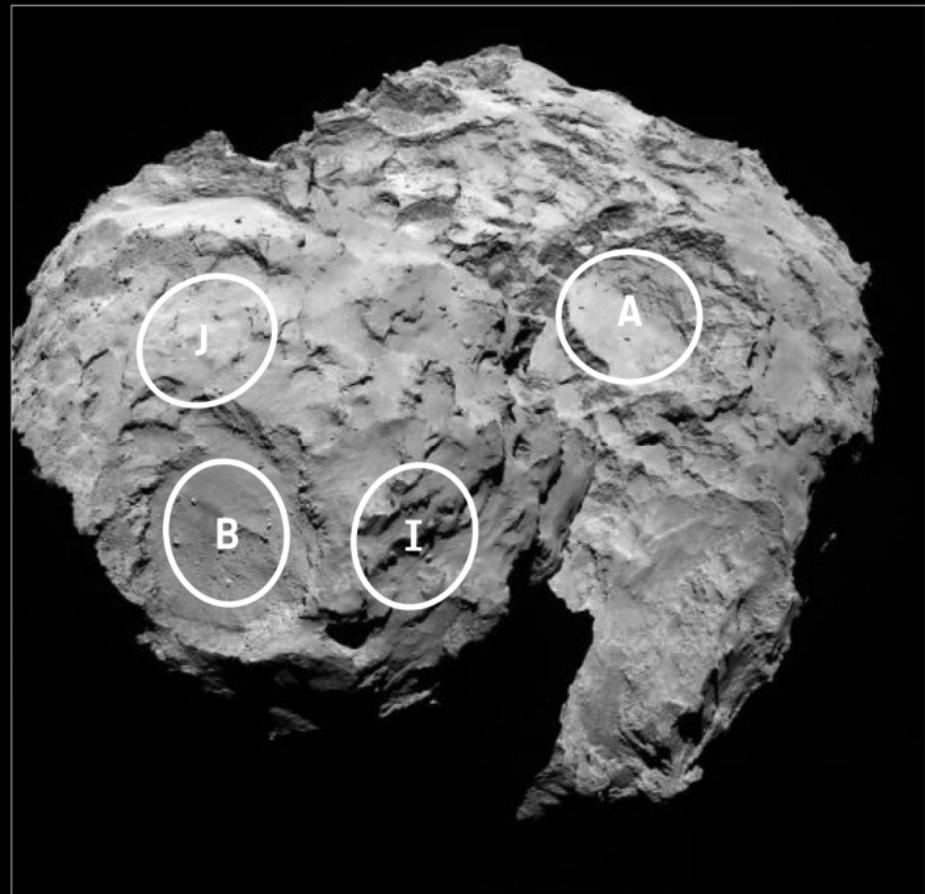
ROME

Vatican

Colosseum

4100 m

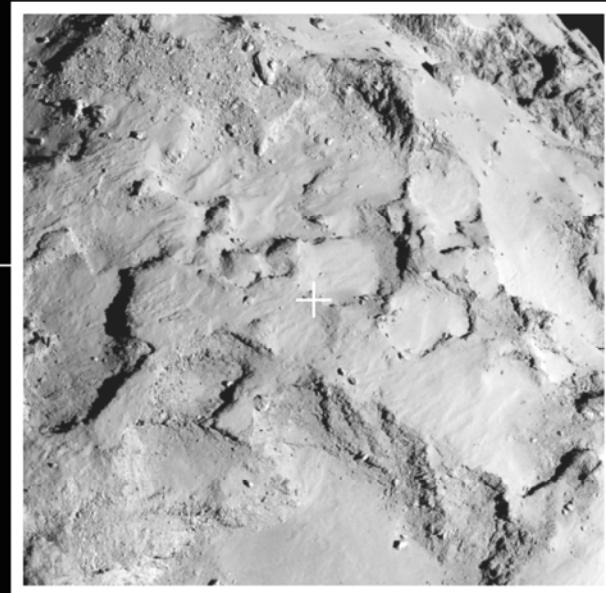
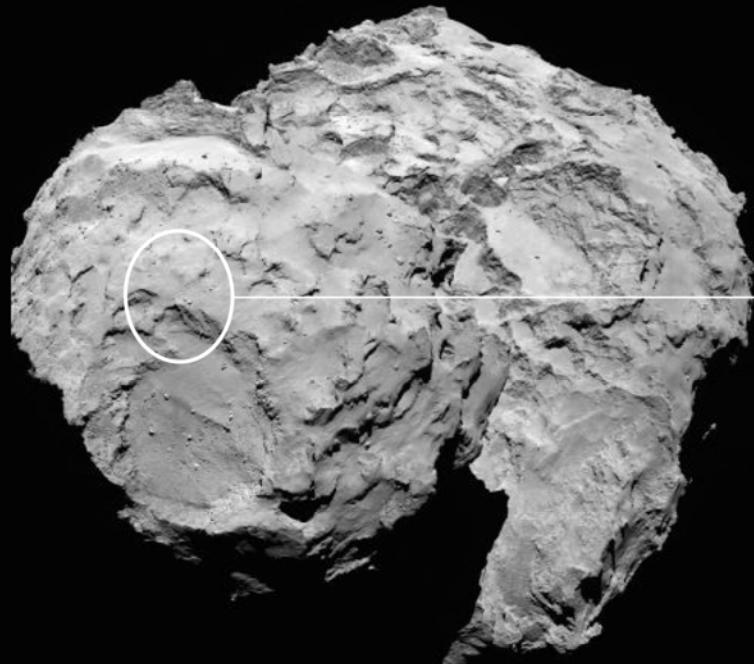
Cinque candidati per l'atterraggio



Selezione finale della destinazione



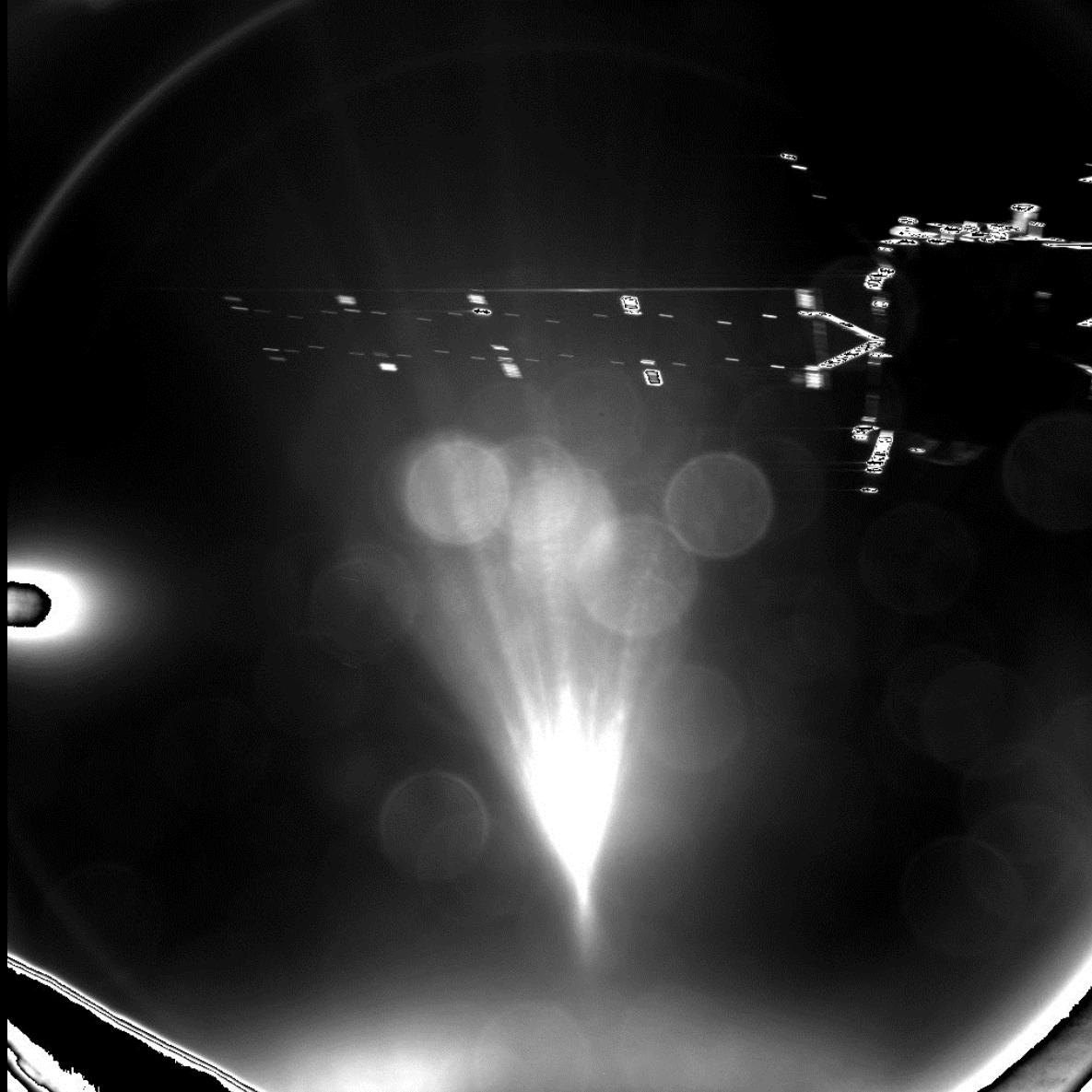
→ PHILAE'S LANDING SITE



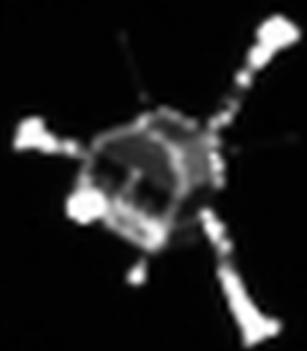
Separazione del lander e discesa alla cometa



Addio Rosetta!



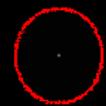
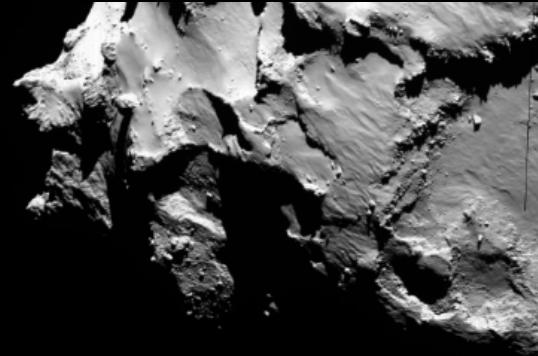
Addio Philae!



Buon viaggio e...



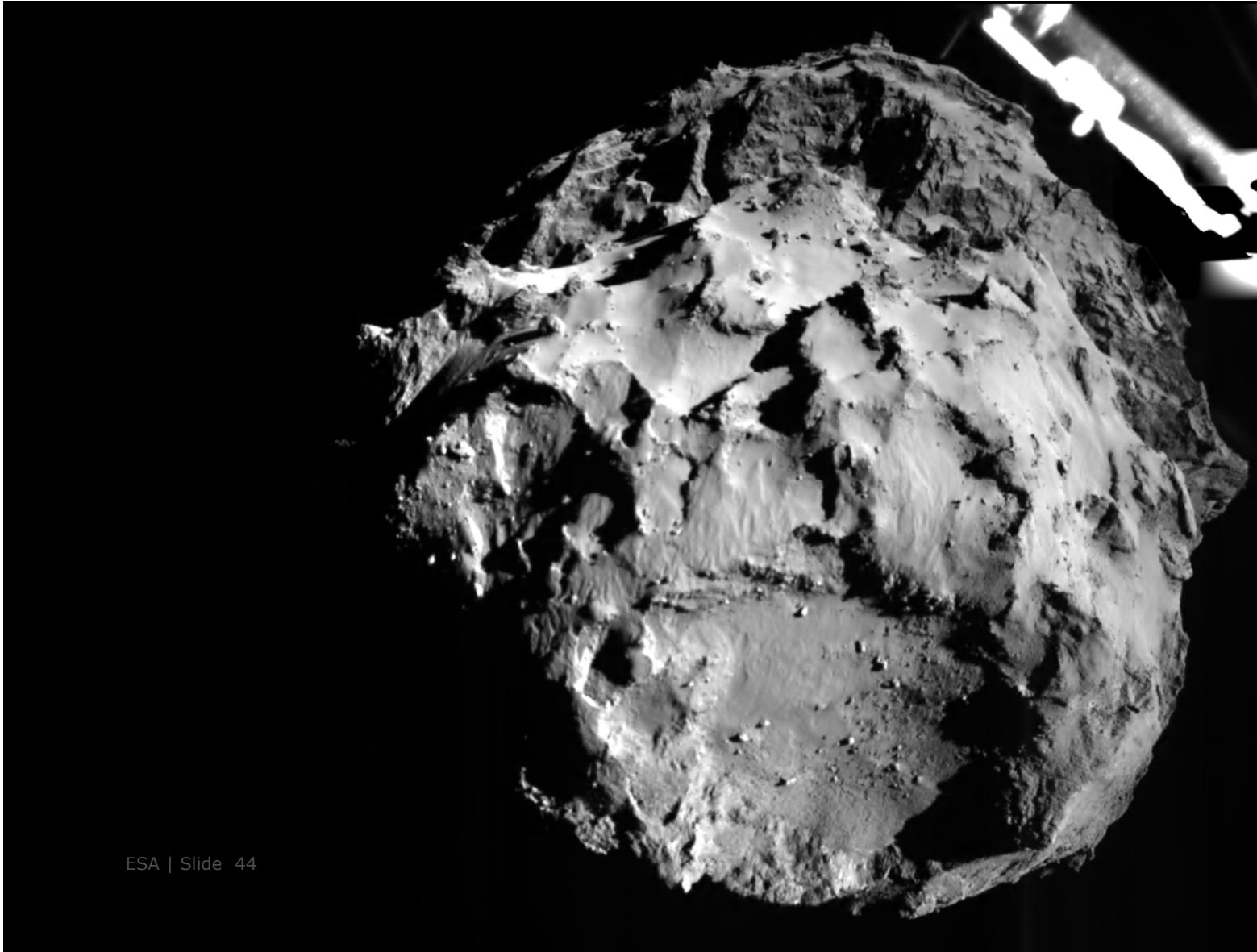
...buon atterraggio!!!



„Agilkia“ da 10 km di altezza



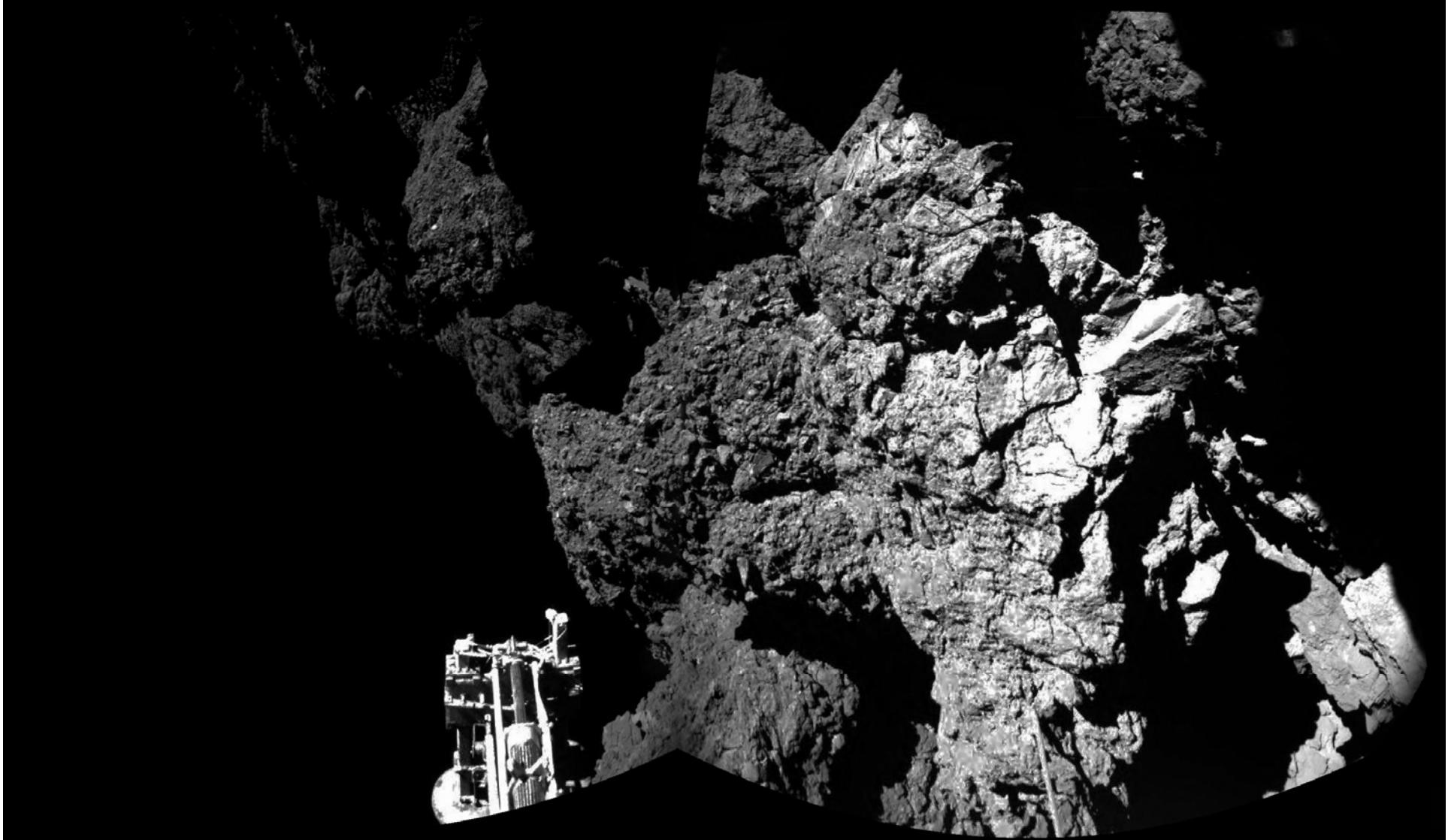
In avvicinamento...



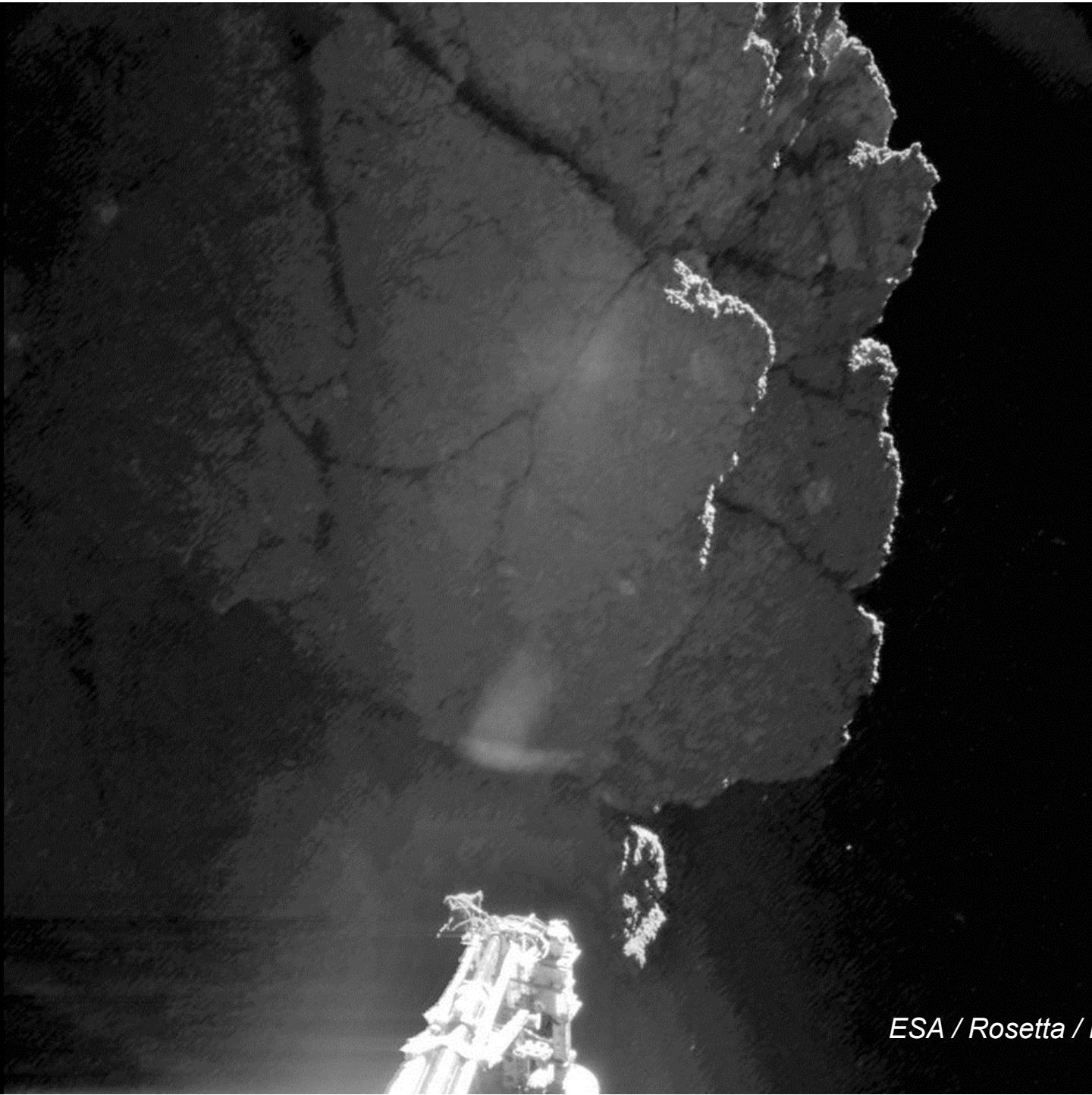
A 40 metri dal suolo...



Prima foto dal suolo di una cometa!



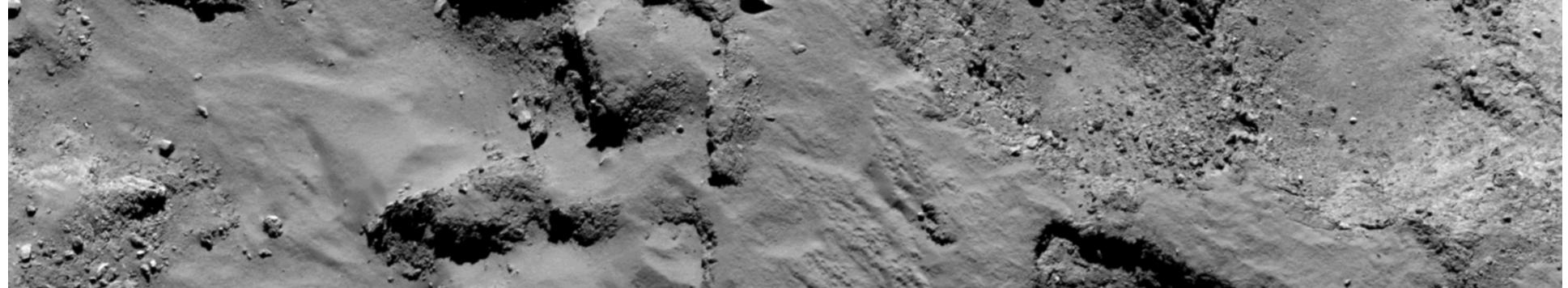
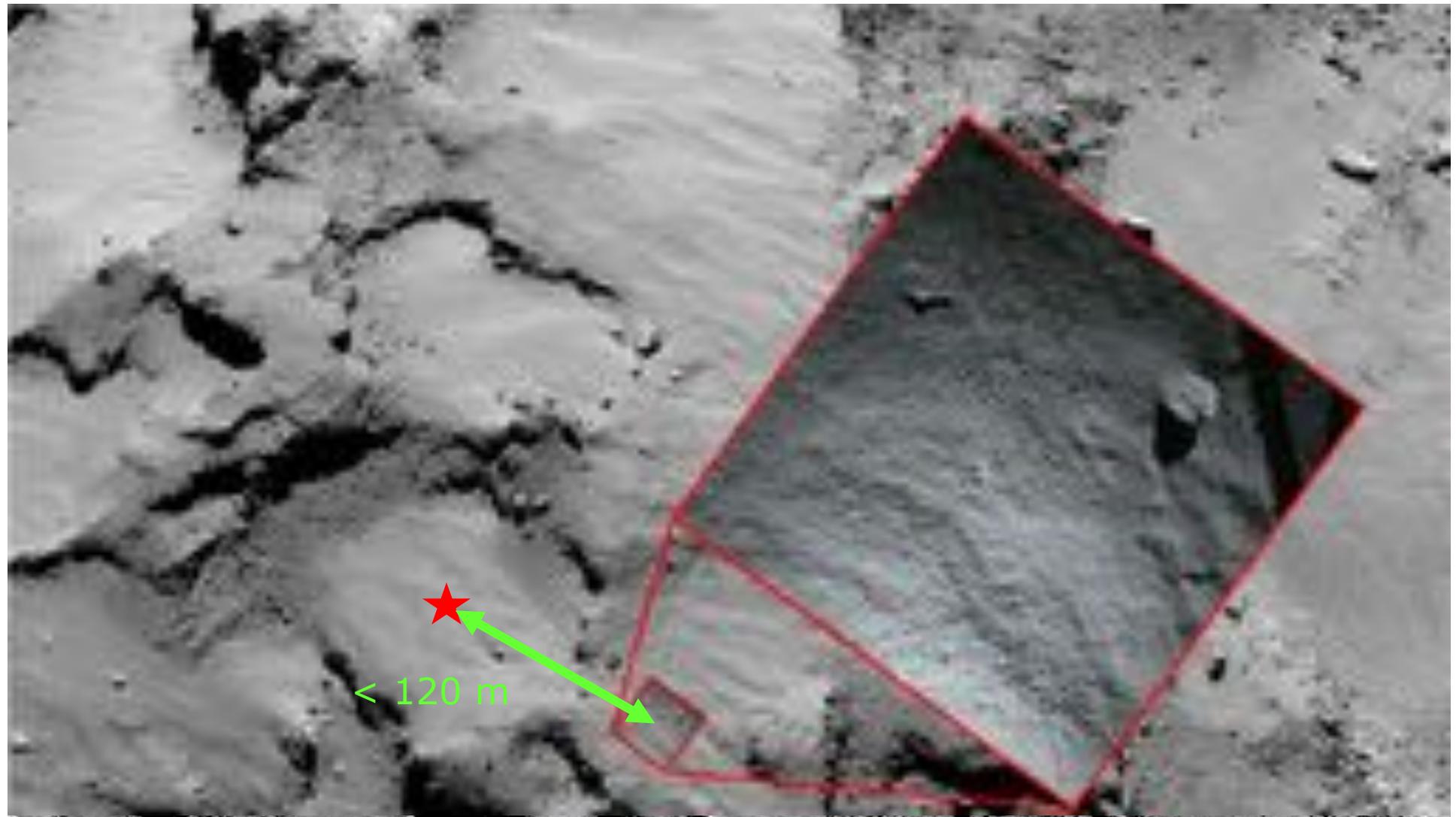
ESA / Rosetta / Philae / CIVA



ESA / Rosetta / Philae / CIVA

Procedura di atterraggio

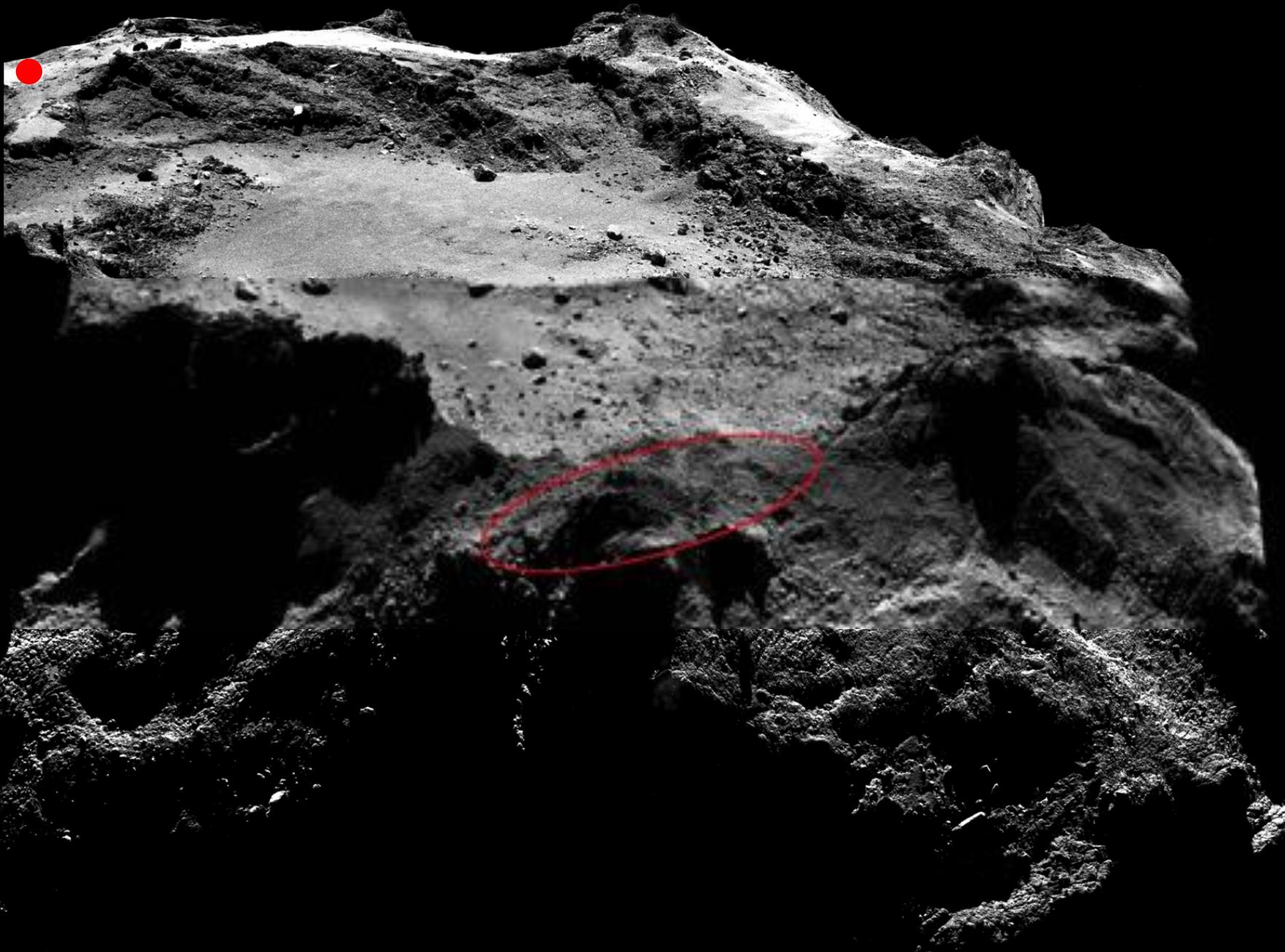






Cosa c'è di strano?

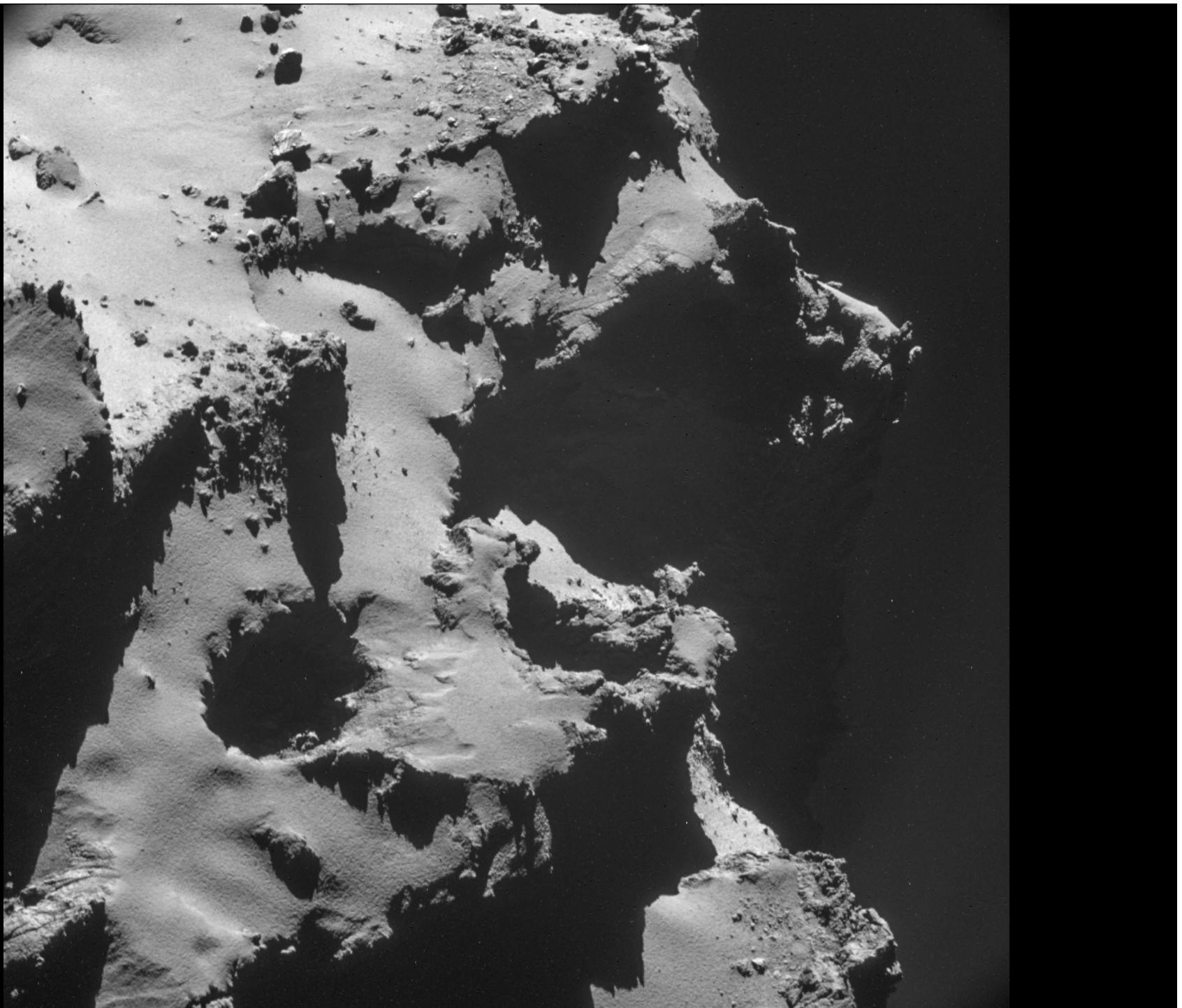




Philae – attività scientifica





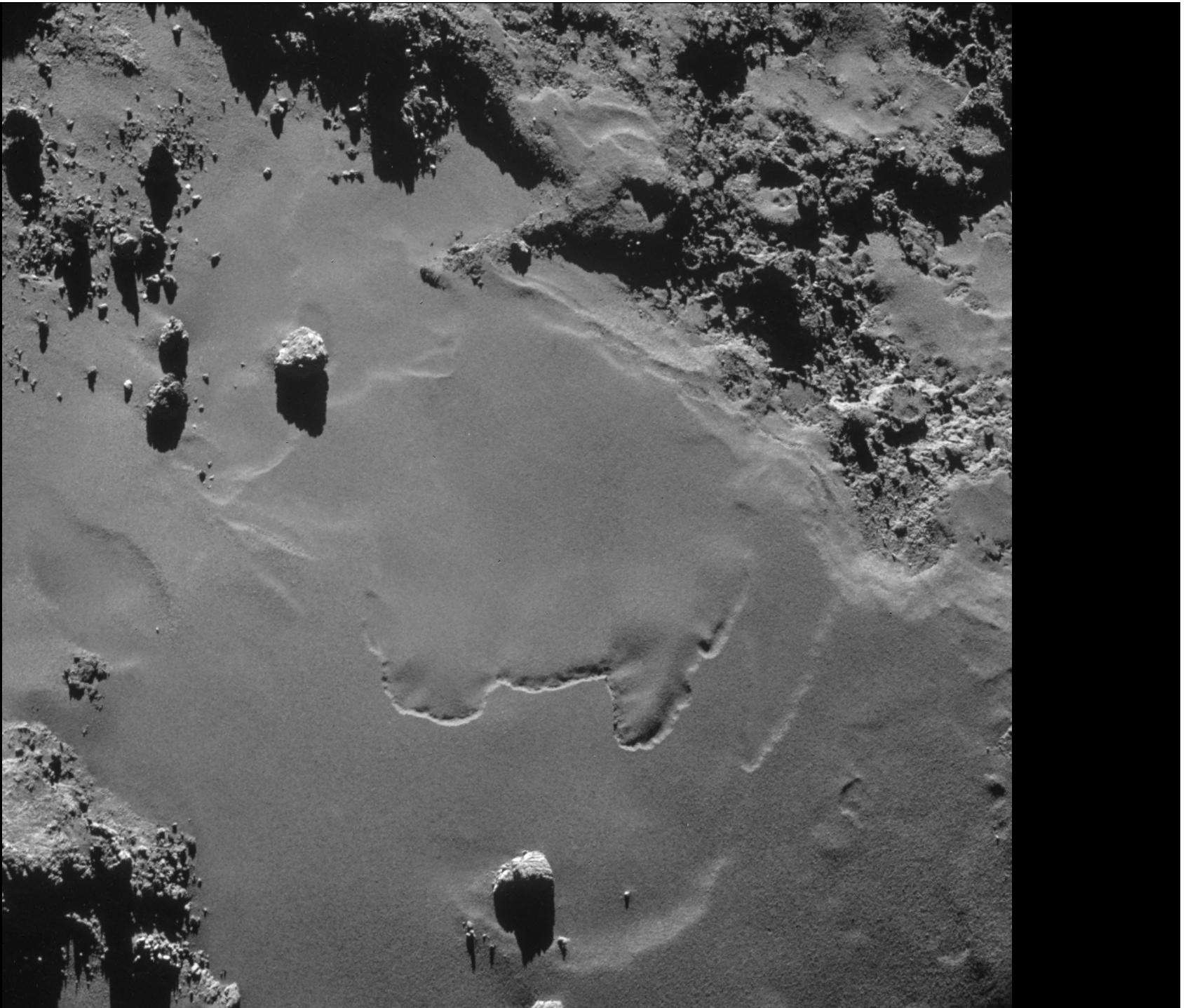


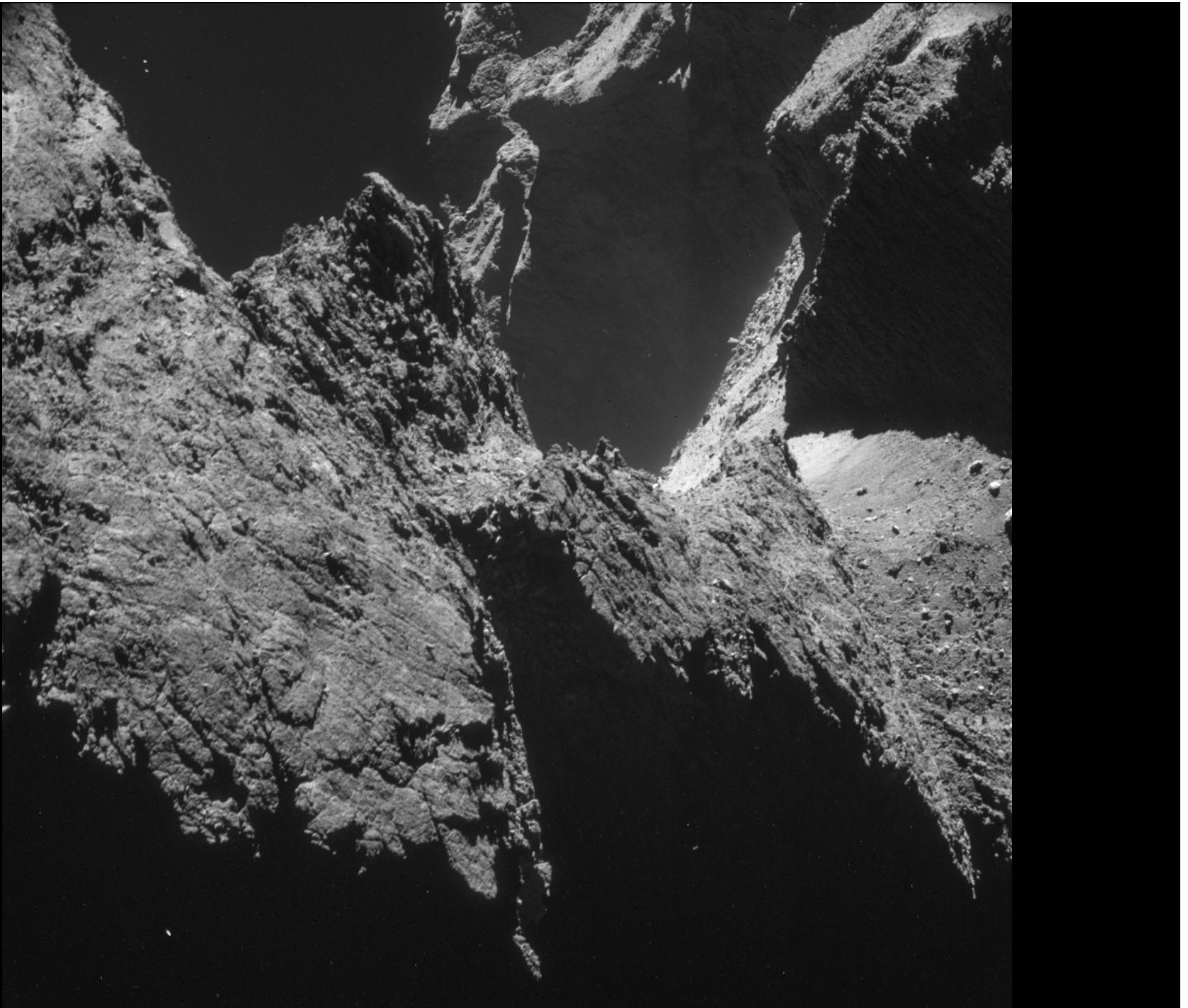


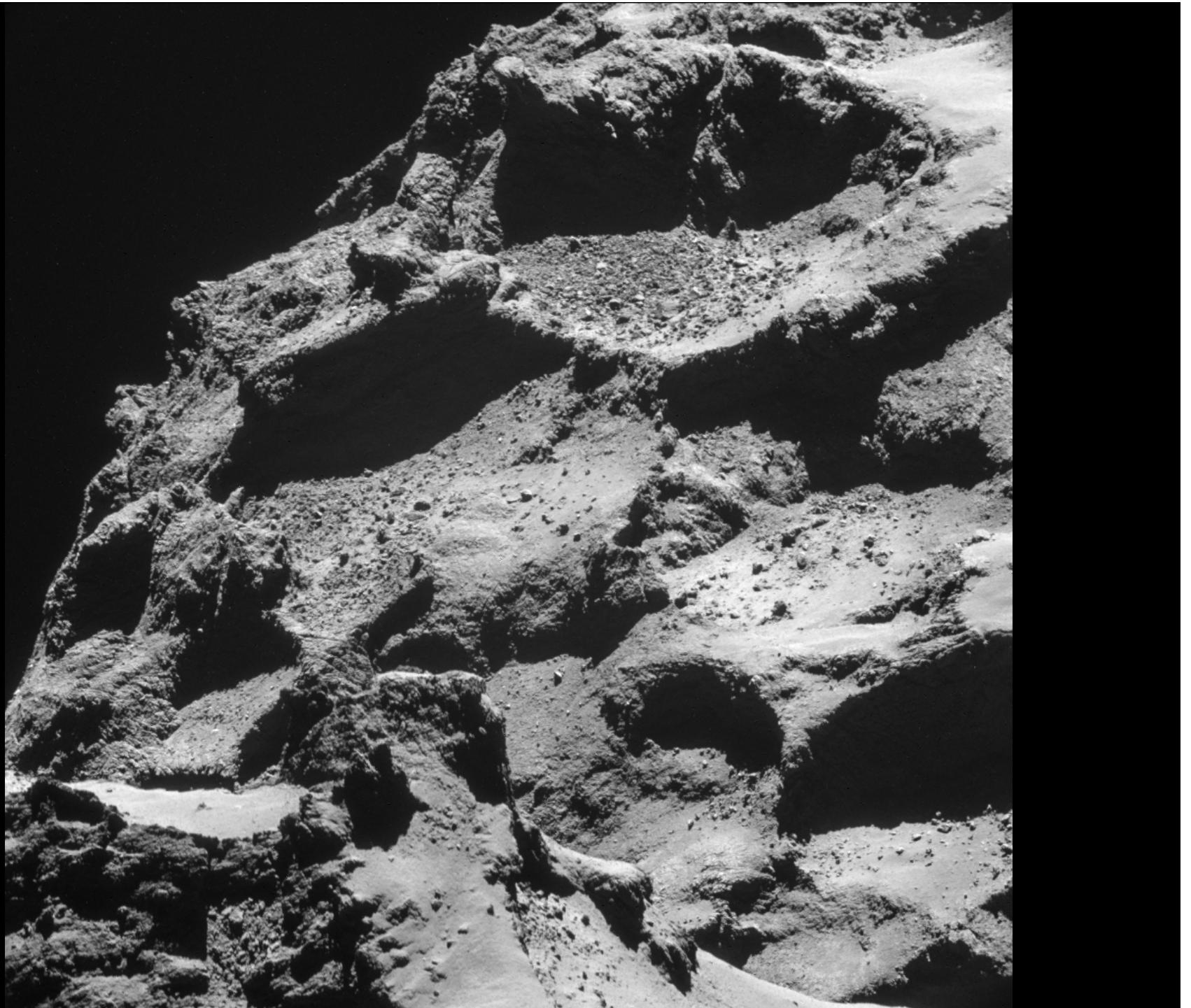


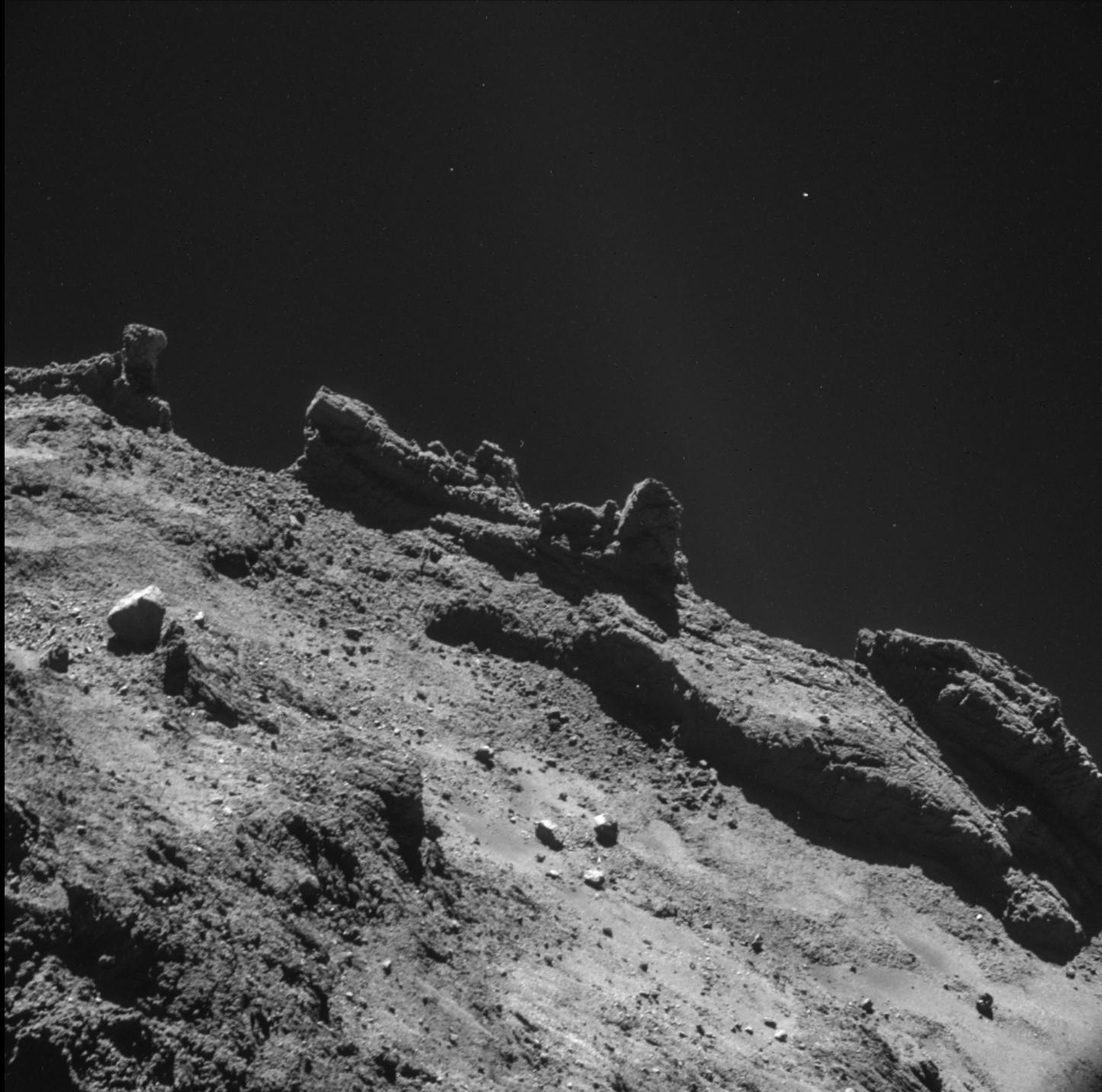
A peak on 67P/C-G / ESA/Rosetta/MPS for OSIRIS Team

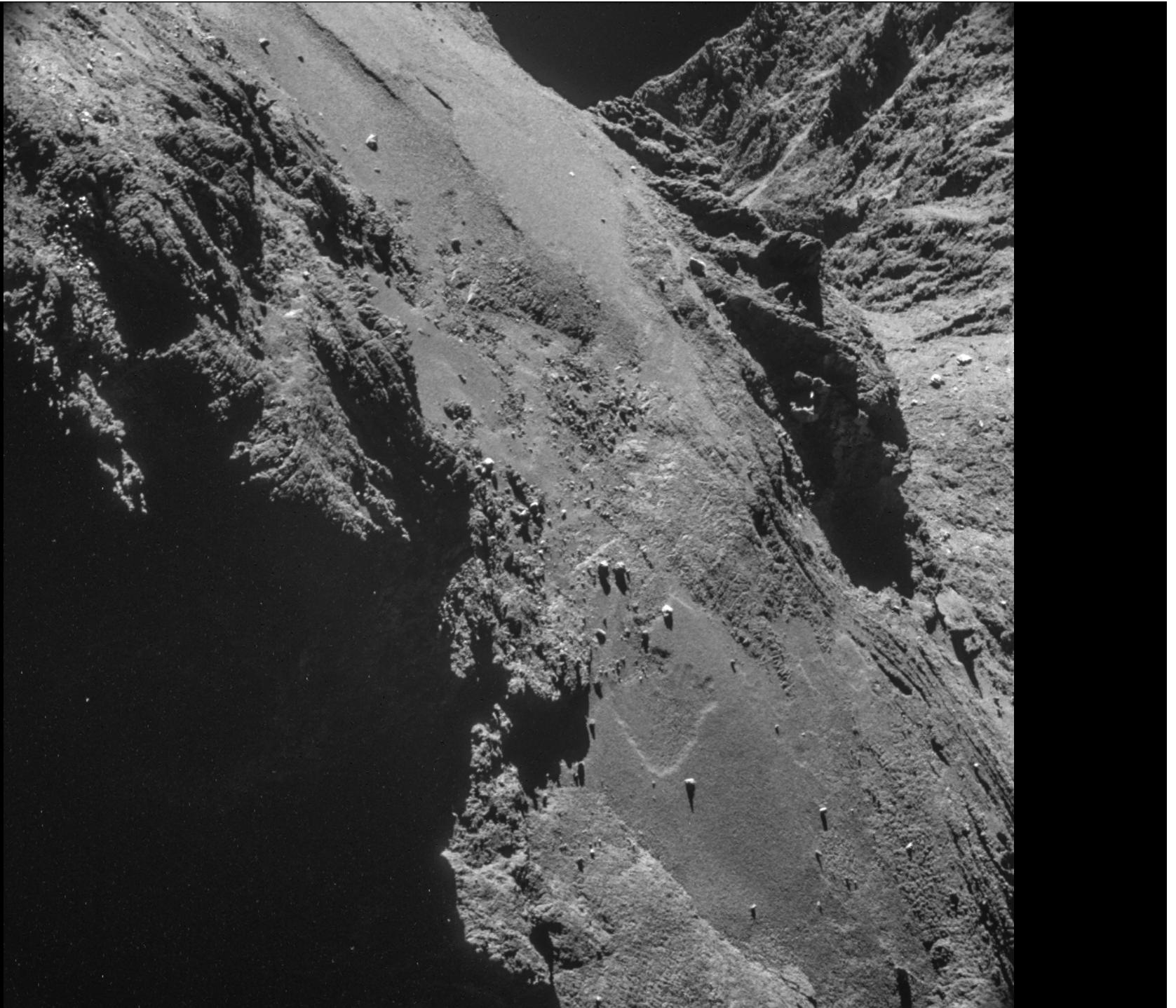














To follow the mission

Website : www.esa.int/Rosetta

Blog : blogs.esa.int/Rosetta

Facebook : RosettaMission

Twitter : @ESA_Rosetta

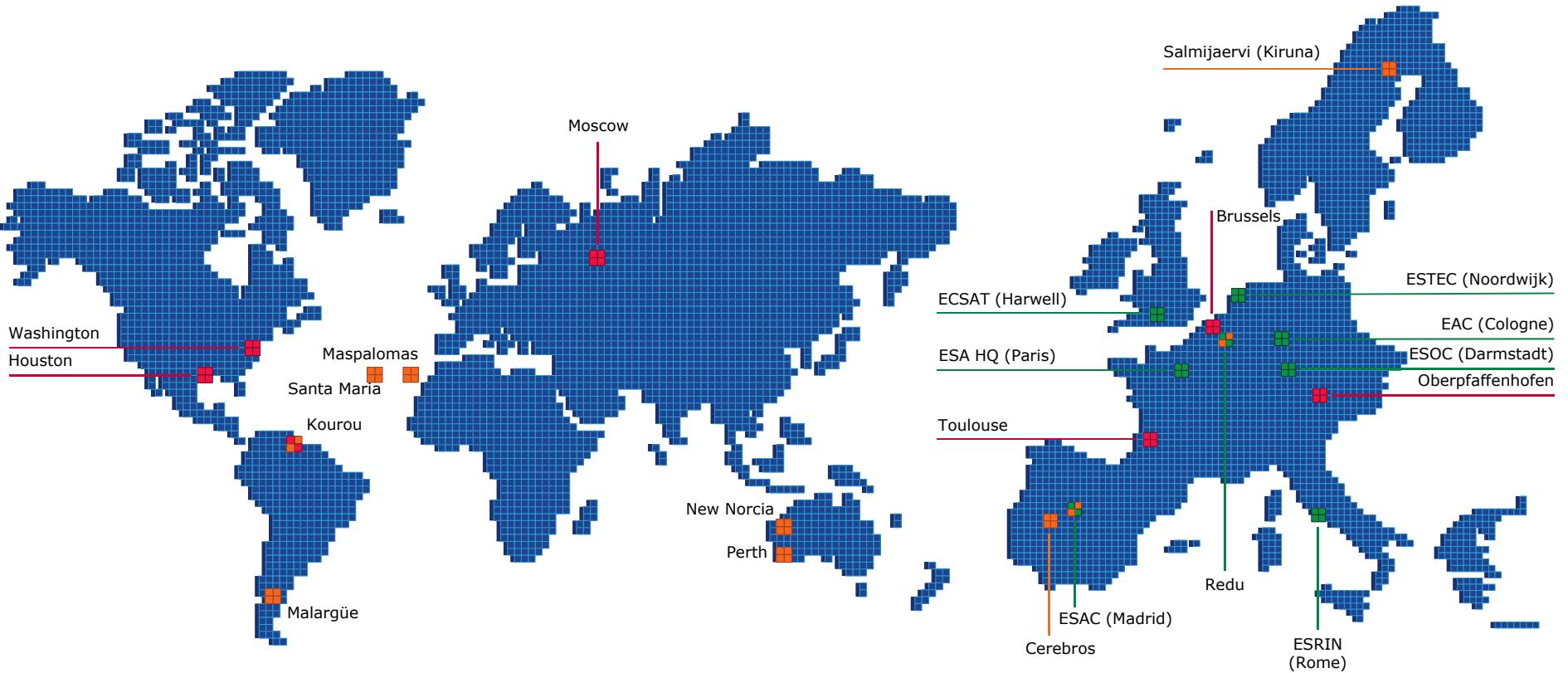
“Sostenere e promuovere, per scopi esclusivamente pacifici, la cooperazione tra gli stati europei nella **ricerca e tecnologia spaziale e nelle loro applicazioni.**”

Articolo 2 of della Convenzione ESA



- Oltre 50 anni di esperienza
- 22 Stati Membri
- Otto siti in Europa, ~2200 impiegati
- Un budget di 5.25 B€ (2016)

Le sedi di ESA



■ Sedi di ESA

■ Uffici

■ Stazioni a terra ESA

■ Stazioni a Terra ESA + Uffici

■ Sedi ESA + Stazioni a Terra ESA

Wake up: 20 Gennaio 2014



European Space Agency

Dove tutto è iniziato!



2014



2004



Thank you!



European Space Agency