



Welcome to the  
XXV meeting of the  
GTC User Committee

*videconference*  
16-17 mar 2022

*Romano Corradi*  
**GRANTECAN**





## *GUC membership*

Jason Dittmann (UF) 1

Javier Zaragoza (INAOE) 1

Fernando Moreno (IAA) 2

Mar Mezcua (ICE) 2

Francisco Najarro (CAB) 3

Josefa Becerra (IAC) 4

Ismael Perez Fournon (IAC) 4 chair

Alberto Rebassa Mansergas (UPC) 4



## Volcanic eruption

Eruption started on September 19 and ended on December 13 2021: 85 days, the longest historical one in La Palma.

Volcanic cone grew 200 m above surrounding ground; 6 craters (widest 172x106 m), eruptive line extends along 557 m.

Lava flow >200 million m<sup>3</sup> which covered 1200 ha (average thickness 12 m, maximum 70 m), emitted SO<sub>2</sub> = 2 million tons; emitted ashes =40 million m<sup>3</sup> (uncertain); 9090 earthquakes (max mag 5.1 mbLg at 36 km depth).

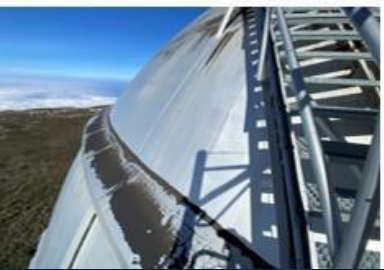
7000 people evacuated; 2988 construction destroyed by lava (Copernicus).

The ash plume reached ORM (straight line distance 16 km) in 4 main episodes, the most significant one on Oct 31. SO<sub>2</sub> recommended limits were also largely exceeded.

Earthquakes measured at the ORM produced shakes up to 0.05 g (0.1 g is the GTC construction requirement).

Telescope operation suspended from September 19 to December 29 2021.

Preventive and corrective measures adopted at GRANTECAN (PPEs, air quality and earthquake sensors acquisition, subcontracted cleaning service)





## Most relevant activities

- **OSIRIS first tests at Cassegrain!** (→ Cass rotator, services and A&G installed, ICM about to, new elevating maintenance platform and related adaptations installed, software upgrades)
- Several activities dealing with obsolescence and upgrades of installation and its operations

Next (nominally) during 2022:

- MIRADAS (May);
- New detector in OSIRIS (Sep):
- New detector in EMIR (?)
- GTC AO at GTC (?)
- HiPERCAM in new folded-Cass station (?)

Help to set science priorities

Do not expect high science productivity in 2022



## Other news

- PDR of GTC-HRS has been further delayed. Instrument planned at GTC on 2026.
- “VII Science with the GTC” organised by the University of Florida 9-13 May 2022 (formal announcement soon).
- CSUG has setup a Working Group to help GRANTECAN to define the future instruments for the GTC. Presentation by the chair of the group, René Rutten, tomorrow at 16 h. Main goal of group is to provide a document with recommendation for the strategy to follow (=kind of instruments).
- Sustainability (solar power on, integral plan under development, ...)
- Last GUC recommendations are addressed in Antonio’s talk.



Thank you very much for your contribution  
I wish you to have a fruitful meeting

Today we are saving another 5 tons of CO<sub>2</sub> in air travel,  
but next meeting will be in La Palma (September?)