



Mars Science Workshop
From Mars Express to ExoMars
27-28 February 2018
ESAC, Spain

Round Table

- New ideas are welcome for MEX future observations and science
(D. Titov)
- Peculiar and repeated water ice "hole" in polar regions, no obvious reason
Can elaborate models explain it?
(M. Giuranna)
- Reported: a double polar vortex in N.H which is very persistent
(A. Sanchez-Lavega)
- Is there a well defined layer of enhanced w.vapour in the mesosphere?
(M. Chaffin)
- Why there was a S-to-N increase in D/H ratio in 2017?
(T. Encrenaz)
- What caused a 10% density decrease in EDL trajectory around 12 km?
(B. Van Hove)

- Looking for synergistic retrievals of water vapour from NIR + TIR with ACS
(*F.Montmessin*)
- Can the temp be that cold at 140 km in the dayside?
(*S.Jimenez-Monferrer*)
- How to use local measurements (heat flow) to improve a global model?
(*question posed to L. Parro*)
- Reported: CH₄ could be stored in CO₂ and H₂O ices due to their porosity
(*M.A.Satorre*)
- Can atmospheric data reveal mud volcanoes/subsurface sediment mobilization?
(*van de Bergt*)
- How to explain the lack of anticorrelation between ozone and w.vapour in the equator? Is the vertical distribution the solution?
Uptake of HO_x in clouds?
(*F. Lefevre*)

- Where is the Martian methane in all my SOFIA-based observations?
(*S. Aoki*)
- Are atmospheric searches appropriate to solve the methane mystery?
(*Etiopo*)
- What promotes local dust storms into global dust storms?
(*L.Montabone*)
- Why the seasonal variations observed at high altitudes?
(*F.González-Galindo*)
- What is the connection between local and global methane?
And the actual background level of atmospheric methane?
(*J.Pla*)
- I am a dust grain. How can I avoid a worldwide tour?
(*A.Spiga*)

Workshop Closure



- **Presentations+pictures** online in the next few weeks
 - **Please notify of any restriction/embargo/...**
- **Abstracts** will also be submitted to ADS (best effort ...)
- **Certificates of Attendance** available at registration desk
- **Please remove posters** (today or tomorrow)

Tuesday,	8:15 – 9:00	MONCLOA → ESAC
Tuesday,	18:30 – 19:00	ESAC → MONCLOA
Wednesday,	8:15 – 9:00	MONCLOA → ESAC
Wednesday,	19:15 – 19:50	ESAC → MONCLOA
	19:15 – 19:50 – 20:30	ESAC → MONCLOA → AIRPORT*
Thursday,	8:15 – 9:00	MONCLOA → ESAC
Thursday,	13:30 – 14:15	ESAC → AIRPORT* HOW MANY?
	14:30 – 15:10 – 15:45	ESAC → MONCLOA → AIRPORT* HOW MANY?

*Arrival to all Airport terminals (T123 → T4)

TAXIS also available on request at registration desk

MEX-TGO MEETING, THURSDAY, MARCH 1



Thursday, 8:15* – 9:00 **BUS MONCLOA – ESAC** (*from Paseo Ruperto Chapí, <M> Moncloa)

Thursday, 9:15 – 11:00 **MEX/TGO Collaboration discussion**

- Introduction (10 min) *D. Titov, H. Svedhem.*
- Analysis of joint observation opportunities (20 min) *A. Cardesin, B. Geiger.*
- General discussion (slides from the participants, etc)

Thursday, 11:00 – 11:30 **COFFEE BREAK**

Thursday, 11:30 – 13:00 **MEX/TGO Collaboration discussion**

- Continuation (round table, ...)

Thursday, 13:00 – 13:15 **CLOSURE.**

Thursday, 13:30 – 14:30 **LUNCH**

Thursday, 13:30 – 14:15 **Bus1 ESAC – Airport** (direct to Terminals T123 and 4)

Thursday, 14:30 – 15:10 – 15:45 **Bus2 ESAC – Moncloa – Airport** (via Madrid)



THANKS