

# **Planetary Mapping Winter School 2023**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome and introduction

*Monday, January 30, 2023 9:00 AM (15 minutes)*

**Presenters:** MASSIRONI, Matteo (Università degli studi di Padova); POZZOBON, Riccardo (IN-AF-OAPD); ROSSI, Angelo (Constructor University)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: 2

Type: **not specified**

## **Europlanet Society & Research Infrastructure**

*Monday, January 30, 2023 9:15 AM (15 minutes)*

**Presenter:** Prof. MASON, Nigel (University of Kent)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: 3

Type: **not specified**

## Planetary data for mapping

*Monday, January 30, 2023 9:30 AM (1 hour)*

**Presenter:** POZZOBON, Riccardo (INAF-OAPD)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: 4

Type: **not specified**

## **General GIS and Coordinate Reference Systems - overview**

*Monday, January 30, 2023 11:00 AM (30 minutes)*

**Presenter:** ROSSI, Angelo (Constructor University)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on

Contribution ID: 5

Type: **not specified**

## **QGIS Overview and short demo**

*Monday, January 30, 2023 11:30 AM (30 minutes)*

**Presenter:** PENASA, Luca (INAF)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on

Contribution ID: 6

Type: **not specified**

## **MAPPY overview & demo**

*Monday, January 30, 2023 12:00 PM (30 minutes)*

**Presenter:** PENASA, Luca (INAF)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on

Contribution ID: 7

Type: **not specified**

## **MAPPY demo / hands-on**

*Monday, January 30, 2023 2:00 PM (1h 30m)*

**Presenter:** PENASA, Luca (INAF)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on



Contribution ID: 8

Type: **not specified**

## **Terrestrial and planetary geologic mapping: an overview**

*Monday, January 30, 2023 4:00 PM (30 minutes)*

**Presenter:** MASSIRONI, Matteo (Università degli studi di Padova)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 9

Type: **not specified**

## **Base mapping product generation for autonomous landing**

*Monday, January 30, 2023 4:30 PM (30 minutes)*

**Presenter:** HARE, Trent (Astrogeology, USGS)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: **10**

Type: **not specified**

## **Geologic mapping & impact cratering**

*Tuesday, January 31, 2023 9:00 AM (30 minutes)*

**Presenter:** VAN DER BOGERT, Carolyn (University of Muenster)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: 11

Type: **not specified**

## **Compositional data handling & mapping**

*Tuesday, January 31, 2023 9:30 AM (1 hour)*

**Presenters:** BASCHETTI, Beatrice (University of Padua / INAF-IAPS); ZAMBON, Francesca (INAF)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: 12

Type: **not specified**

## **GMAP JupyterLab - features & functionalities**

*Tuesday, January 31, 2023 11:00 AM (15 minutes)*

**Presenter:** BRANDT, Carlos H. (Constructor University)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on

Contribution ID: 13

Type: **not specified**

## **GMAPJupyter ISIS, & ASP**

*Tuesday, January 31, 2023 11:15 AM (45 minutes)*

**Presenter:** NODJOUMI, Giacomo (Constructor University)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on

Contribution ID: 14

Type: **not specified**

## **GMAP data portal**

*Tuesday, January 31, 2023 12:00 PM (30 minutes)*

**Presenter:** BRANDT, Carlos H. (Constructor University)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on

Contribution ID: 15

Type: **not specified**

## **Traficability & landing site safety introduction**

*Tuesday, January 31, 2023 2:00 PM (20 minutes)*

**Presenters:** ROSSI, Angelo (Constructor University); POZZOBON, Riccardo (INAF-OAPD)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on



Contribution ID: 16

Type: **not specified**

## **Traficability & landing site demo / hands-on**

*Tuesday, January 31, 2023 2:20 PM (1 hour)*

**Presenters:** ROSSI, Angelo (Constructor University); POZZOBON, Riccardo (INAF-OAPD)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on

Contribution ID: 17

Type: **not specified**

## **Mapping of contractional structures and related landforms**

*Tuesday, January 31, 2023 4:00 PM (15 minutes)*

**Presenter:** KARAGOZ, Oguzcan (University of Freiburg)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 18

Type: **not specified**

## **Geomorphology on Titan, processing data and mapping**

*Tuesday, January 31, 2023 4:15 PM (15 minutes)*

**Presenter:** SPAGNUOLO, Mauro (IDEAN (UBA-CONICET))

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 19

Type: **not specified**

## Community mapping lightning talks

*Tuesday, January 31, 2023 4:30 PM (25 minutes)*

**Session Classification:** Lightnings

**Track Classification:** Seminars

Contribution ID: 21

Type: **not specified**

## **Introduction to Moon geologic mapping**

*Wednesday, February 1, 2023 9:00 AM (30 minutes)*

**Presenter:** VAN DER BOGERT, Carolyn (University of Muenster)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: 22

Type: **not specified**

## **Moon mapping task description**

*Wednesday, February 1, 2023 9:30 AM (1 hour)*

**Presenter:** VAN DER BOGERT, Carolyn (University of Muenster)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: 23

Type: **not specified**

## Hands-on tasks: The Moon

*Wednesday, February 1, 2023 11:00 AM (1h 30m)*

**Presenters:** VAN DER BOGERT, Carolyn; MIKOLAJEWSKI, Sascha (University of Muenster); IQBAL, Wajiha (WWU)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on

Contribution ID: 24

Type: **not specified**

## Hands-on tasks: The Moon

*Wednesday, February 1, 2023 2:00 PM (1h 30m)*

**Presenters:** VAN DER BOGERT, Carolyn (University of Muenster); TUSBERTI, Filippo (INAF); MIKO-LAJEWSKI, Sascha (University of Muenster); IQBAL, Wajiha (WWU)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on



Contribution ID: 25

Type: **not specified**

## **Geologic mapping of Apollo landing sites**

*Wednesday, February 1, 2023 4:00 PM (30 minutes)*

**Presenter:** IQBAL, Wajiha (WWU)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 26

Type: **not specified**

## **Gemorphological mapping of Valentine Domes, the Moon**

*Wednesday, February 1, 2023 4:30 PM (15 minutes)*

**Presenter:** SUAREZ VALENCIA, Javier Eduardo (Constructor University)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 27

Type: **not specified**

## **Landing site characterisation in the proximity of Marius Hills pit (the Moon)**

*Wednesday, February 1, 2023 4:45 PM (15 minutes)*

**Presenter:** POZZOBON, Riccardo (INAF-OAPD)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 28

Type: **not specified**

## **VRGS and digital outcrop mapping.**

*Wednesday, February 1, 2023 5:30 PM (1 hour)*

**Presenter:** HODGETTS, David (VRGeoscience)

**Session Classification:** Seminars

**Track Classification:** Special events

Contribution ID: 29

Type: **not specified**

## **Introduction to Mars geologic mapping**

*Thursday, February 2, 2023 9:00 AM (30 minutes)*

**Presenter:** PONDRELLI, Monica (Università d'Annunzio)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: **30**

Type: **not specified**

## **Mars mapping task description**

*Thursday, February 2, 2023 9:30 AM (1 hour)*

**Presenter:** PONDRELLI, Monica (Università d'Annunzio)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: 31

Type: **not specified**

## Hands-on tasks: Mars

*Thursday, February 2, 2023 11:00 AM (1h 30m)*

**Presenters:** ROSSI, Angelo (Constructor University); PONDRELLI, Monica (Università d'Annunzio); POZZOBON, Riccardo (INAF-OAPD)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on

Contribution ID: 32

Type: **not specified**

## Hands-on tasks: Mars

*Thursday, February 2, 2023 2:00 PM (1h 30m)*

**Presenters:** ROSSI, Angelo (Constructor University); PONDRELLI, Monica (Università d'Annunzio); POZ-ZOBON, Riccardo (INAF-OAPD)

**Session Classification:** Hands-on & demo

**Track Classification:** Hands-on



Contribution ID: 33

Type: **not specified**

## **VR & 3D digital outcrop mapping on Mars Landing Sites**

*Thursday, February 2, 2023 4:00 PM (30 minutes)*

**Presenter:** CARAVACA, Gwenael (IRAP)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 34

Type: **not specified**

## **Landing site characterisation on Mars and beyond**

*Thursday, February 2, 2023 4:30 PM (30 minutes)*

**Presenter:** PAJOLA, Maurizio (INAF)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 35

Type: **not specified**

## **Machine Learning for automated mapping” - introduction & demo**

*Friday, February 3, 2023 9:00 AM (45 minutes)*

**Presenter:** D AMORE, Mario (DLR)

**Session Classification:** Frontal lectures

**Track Classification:** Lectures

Contribution ID: 36

Type: **not specified**

## **Does machine learning mean the end of geological mapping? Well, no actually...**

*Friday, February 3, 2023 9:45 AM (30 minutes)*

**Presenter:** WRIGHT, Jack (ESA)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 37

Type: **not specified**

## **Geologic mapping on Venus**

*Friday, February 3, 2023 11:00 AM (30 minutes)*

**Presenter:** D'INCECCO, Piero (INAF)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: **38**

Type: **not specified**

## **The PANGAEA geologic field training for astronauts**

*Friday, February 3, 2023 11:30 AM (30 minutes)*

**Presenter:** MASSIRONI, Matteo (Università degli studi di Padova)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: 39

Type: **not specified**

## **Landing humans on Mars: characterisation of landing site resources and safety**

*Friday, February 3, 2023 12:00 PM (30 minutes)*

**Presenter:** LUZZI, Erica (BAERI)

**Session Classification:** Seminars

**Track Classification:** Seminars

Contribution ID: **40**

Type: **not specified**

## **Wrap-up & feedback**

*Friday, February 3, 2023 2:00 PM (45 minutes)*

**Session Classification:** wrap-up



Contribution ID: 41

Type: **not specified**

## **Free Open Source Software (FOSS) Mapping tools and development**

*Tuesday, January 31, 2023 4:55 PM (15 minutes)*

**Presenter:** Dr FRIGERI, Alessandro (INAF)

**Session Classification:** Seminars

Contribution ID: 42

Type: **not specified**

## Mapping For Mars Surface Missions

*Tuesday, January 31, 2023 5:10 PM (20 minutes)*

**Presenter:** Dr CALEF, Fred (Jet Propulsion Laboratory)

**Session Classification:** Seminars