MEX OMEGA/ MER Coordinated Observations

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02/22/05
Opportunity

PH

ET

DCT

MCT

100 km

50 km

75 km

bright

etched

dark etched plateau

crater floor

bright plains

dark plains

Orbit 485

1C

6/7/04

MLST

9:09

1A

1B
G, H = water in sulfate structure

D = 2.78 µm symmetrical and 2.94 µm asymmetrical OH stretch fundamentals in water

E = 6.09 µm H-O-H bend and 2.94 µm asymmetrical OH stretch combination in water
Fig 4

BaSO₄ + tr. H₂O
CaSO₄·0.5H₂O
CaSO₄·2H₂O
MgSO₄·H₂O
CaF₂ + H₂O
MgSO₄·7H₂O

dark etched plateau
MOLA-Based Shaded Relief Maps

Opportunity landing site

Crater

10 km
Endurance

Eagle

Heat Shield

Mottled plains

Plains

Victoria

• **OMEGA**
  - Orbit 1183-5
  - 12/20/04
  - 14:00 MLST
  - \(i=33, e=17.8, g=31.8\) deg

• **C and L Spectrometer**
  - Color composites

• **MOC NA**
  - R1400021

10 km
Endurance

Eagle

Heat Shield

Plains

200 m

OMEGA 1183-5 C Spectrometer composite and C, L spectra

Opportunity

Mottled Etched Terrain

OMEGA 1183-5 C Spectrometer composite and C, L spectra

Opportunity and Mottled Etched Terrain

I/F Value

Wavelength, micrometers

D

E

H

1.5

2.0

2.5

3.0

3.5

4.0