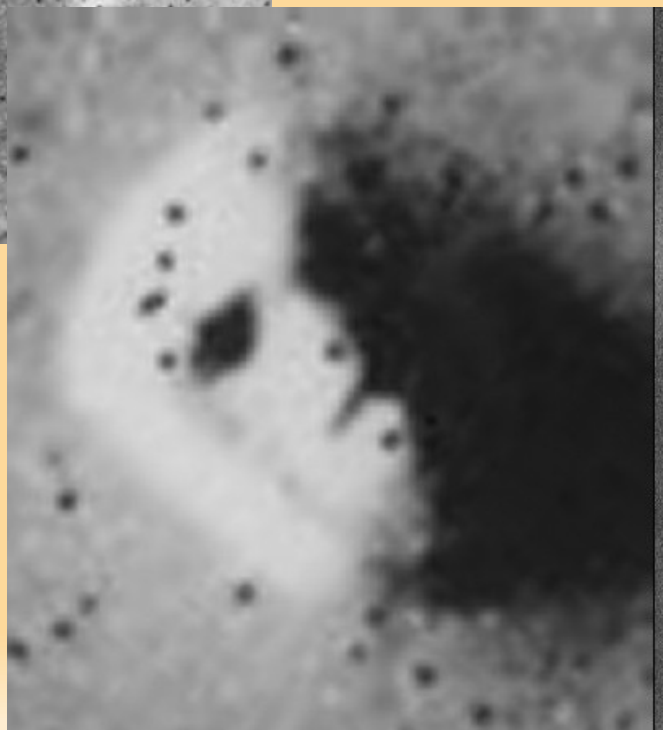
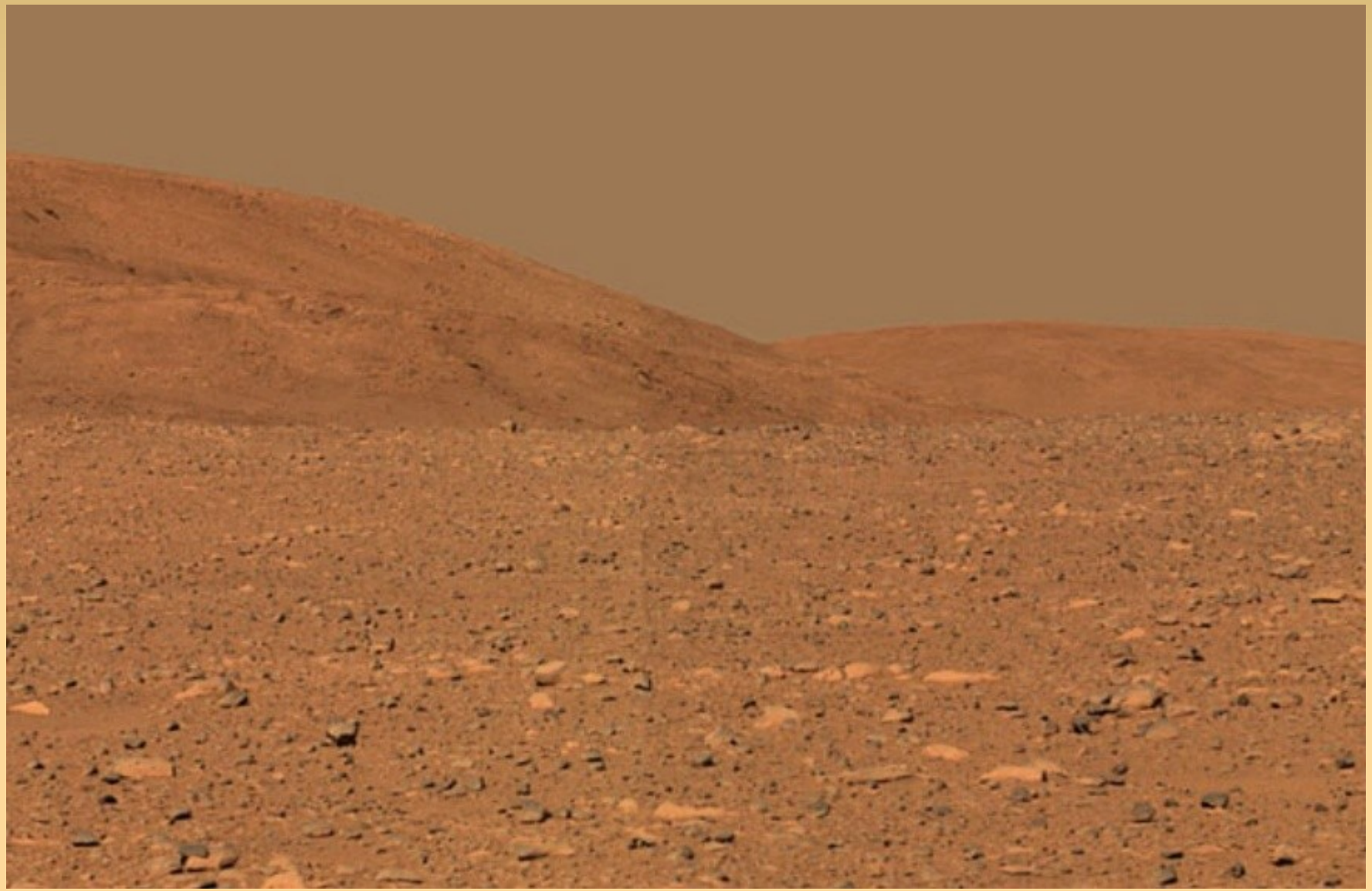
Water on Mars

The Face on Mars



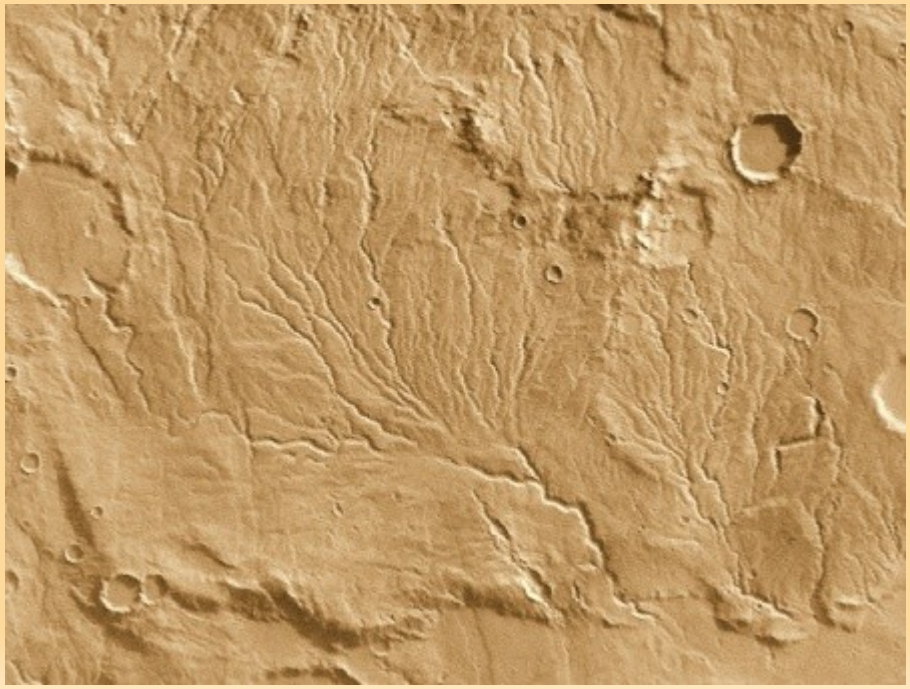
Sunny Day on Mars

Dusty Day on Mars

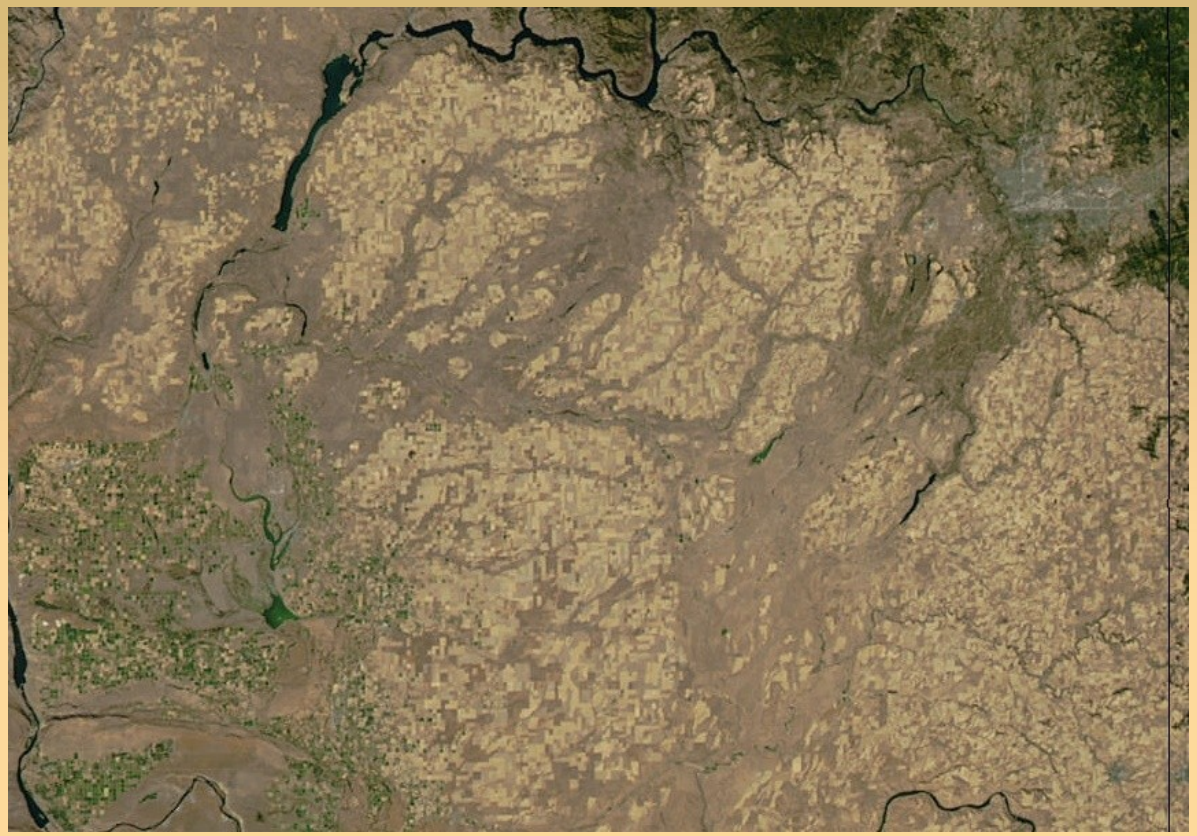


Sand Dunes

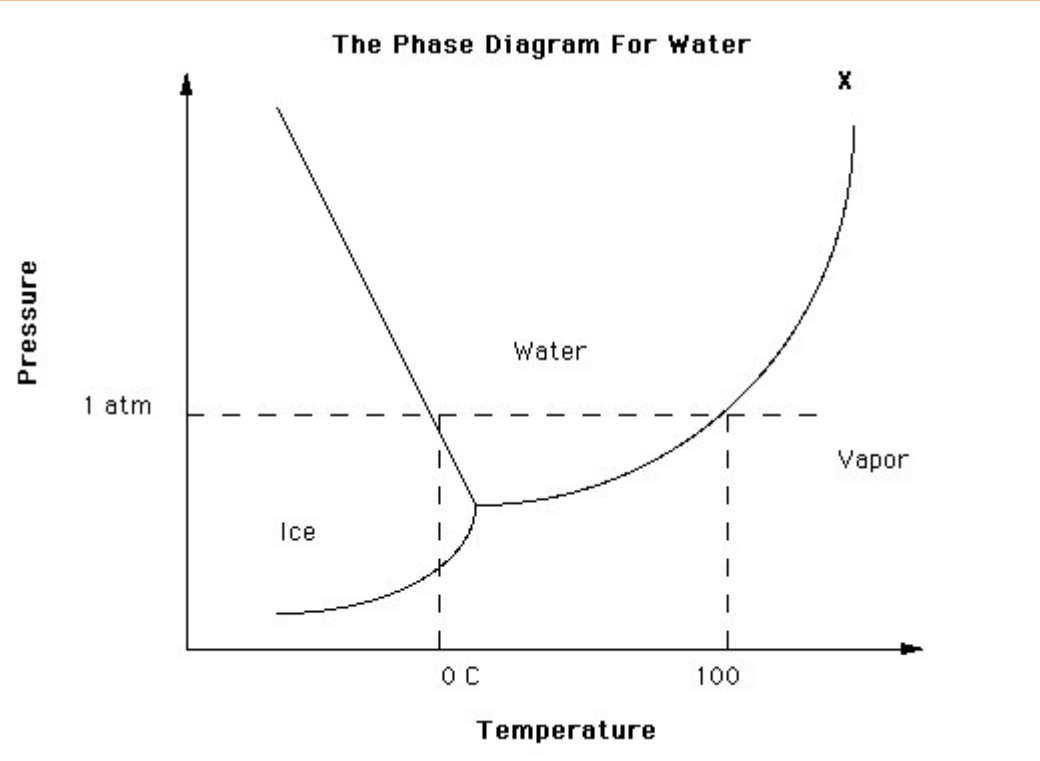
River Beds – Dendritic Features



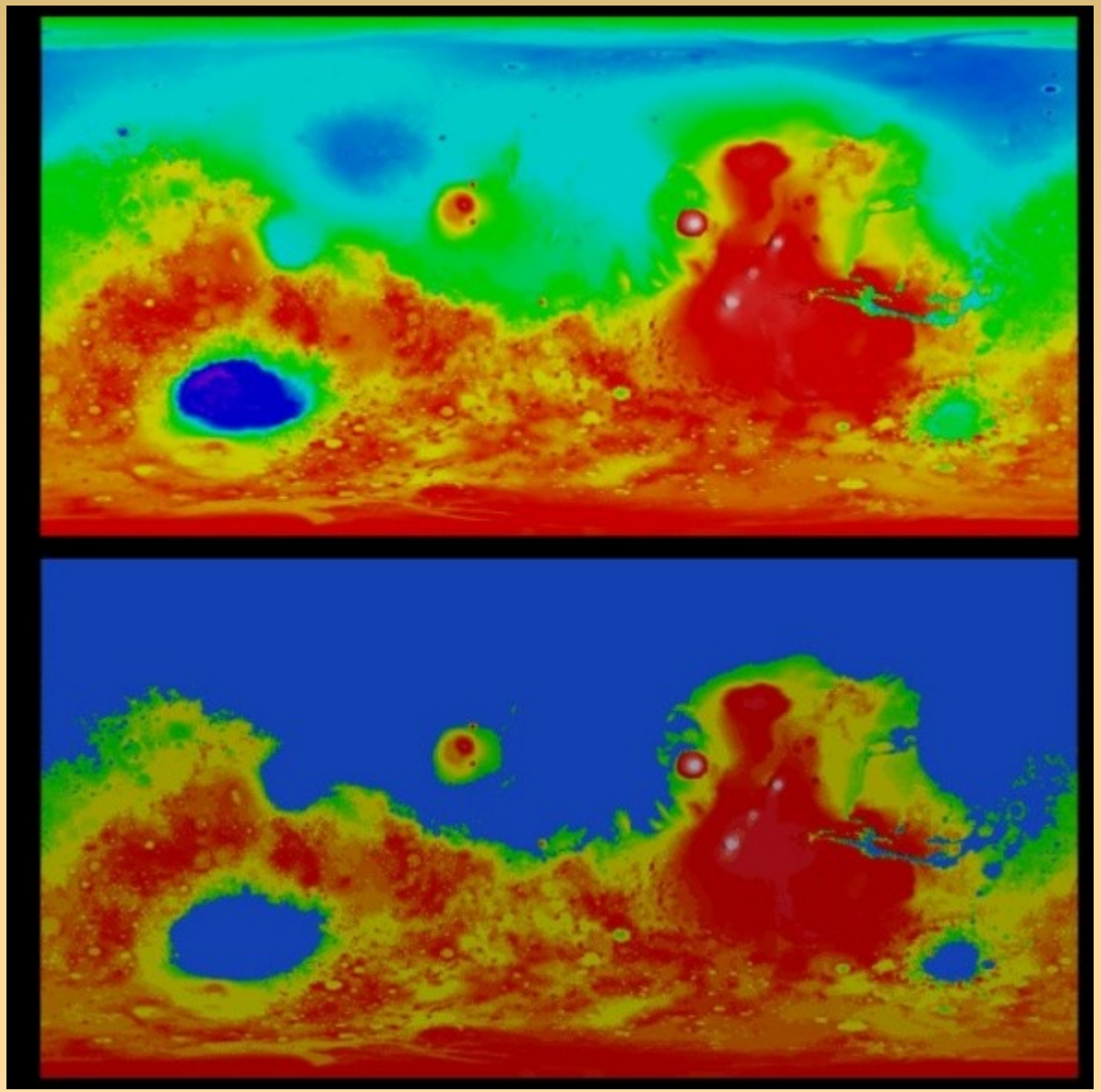
Anastomosing Features



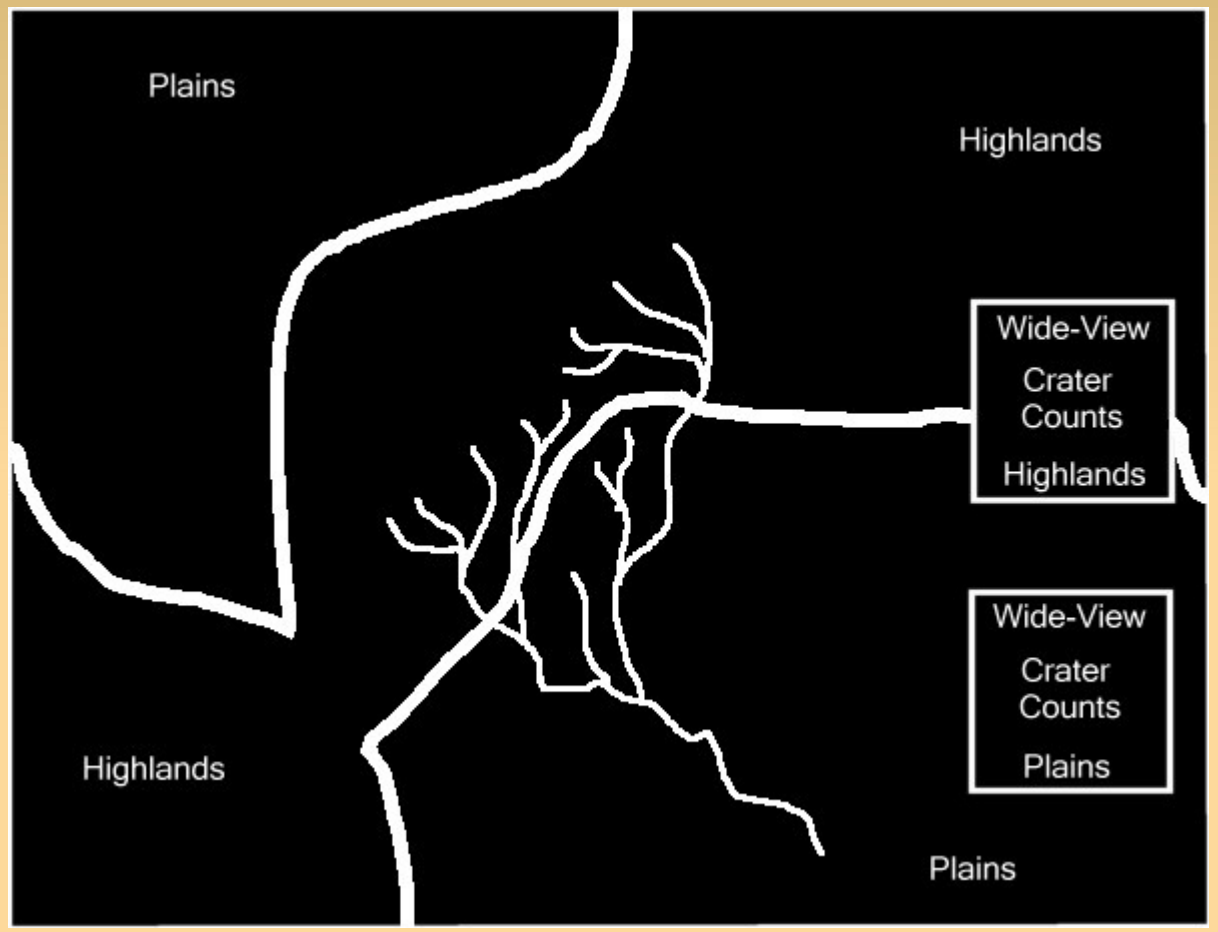
Where did the Water Go?



Map of Mars



Lab Methods - Warrego



Calculating Water needed to carve the Rio Grande Valley

Length

Rio Grande: 3034 km

Pecos R.: 1183 km

Total: 4217 km

Width

5 km, 5 km, 2 km, 3 km, 2 km, 3 km, 2 km, 2 km, 1 km, 0.5 km, 0.5 km, 0.5 km

Average: 2.15 km

Depth

Let's say 200 m

How Much Water?

Volume = length x width x height

Volume of Rio Grande and tributary:

4217 km x 2.15 km x 0.2 km = 1813 km3

If we assume we needed 100 km3 of water to erode away each km3 of the land, then we get a total of 181,300 km3 of water.

Ares Valles