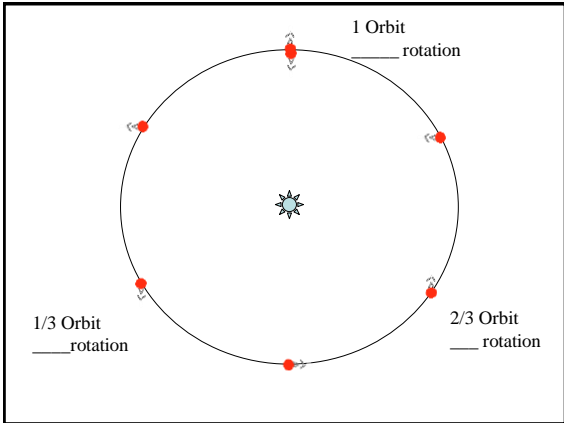


Mercury ♀

- The Speedy Messenger
- Close to the Sun
- Tidally locked?
Orbital period=rotation period?
- Use radar
1 rotation = ____ days
1 orbit = ____ days
____ = _____

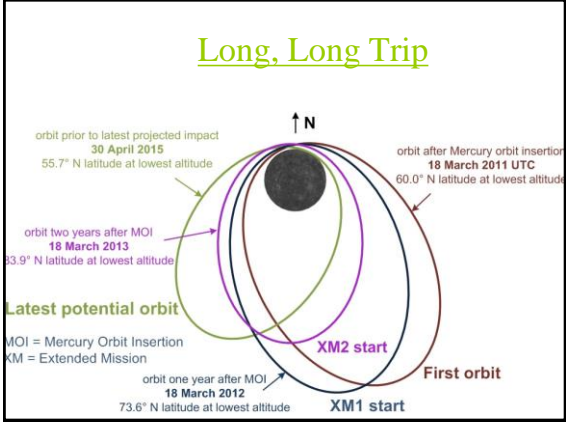


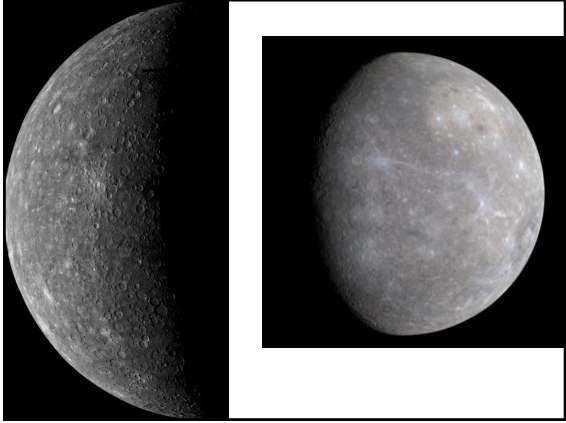
Mariner 10 (1974-75)

Photographed 1/2 the surface

MESSENGER - Launch 2004, Arrived 2011



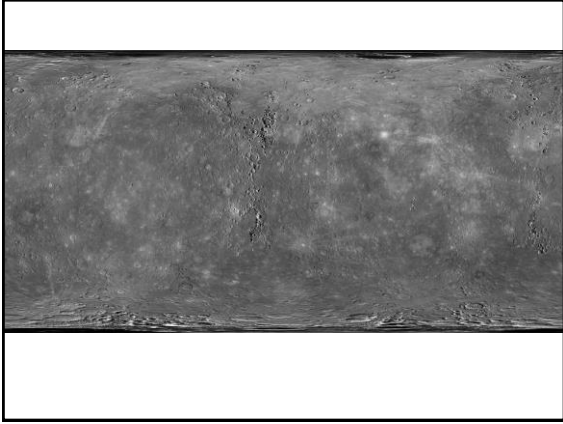


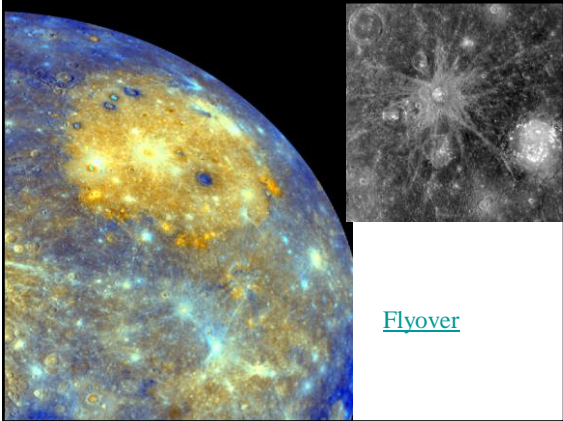


What's it like?

- No atmosphere
 - Hot days (700 K)
 - Cold nights (100 K)
- Craters
- Plains some resurfacing

The image contains two photographs of the Moon, similar to the ones in the previous section, showing different surface characteristics.

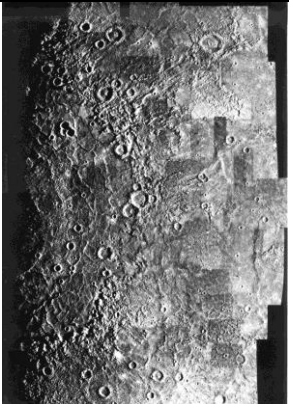


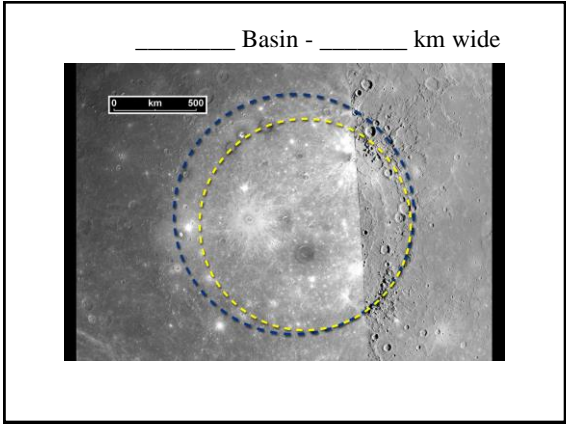


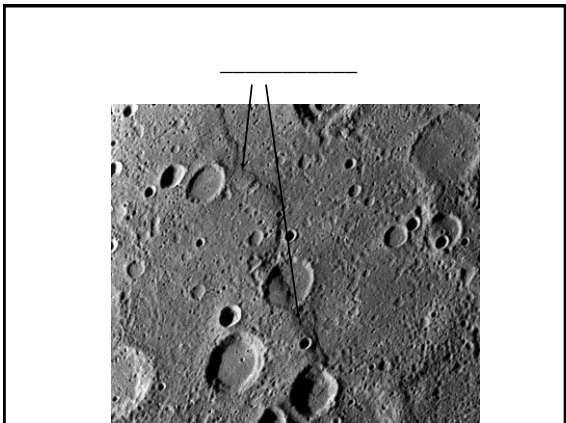
Major Features

_____ Basin

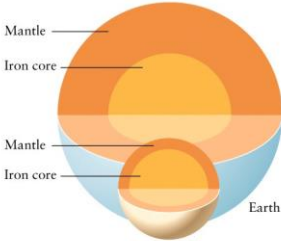
_____ km wide?



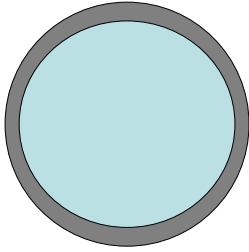




What's it like inside?
Weak magnetic field -- _____!
_____ density



Where do the _____ come from?
Cooling large metal core - _____



Venus

The Goddess of Love

The brightest planet in the sky

Just like the Earth?

Same mass, density, radius, overall composition

Rotation (found by radar)

1 day = _____ Earth days, _____!





Atmosphere _____

- _____ CO₂ _____
- _____ N₂ _____

Clouds _____


- _____ Anyone want to visit?

Surface Temperature

- _____
- _____

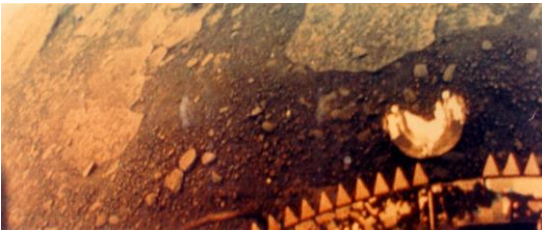
Pressure = ____x Earth's

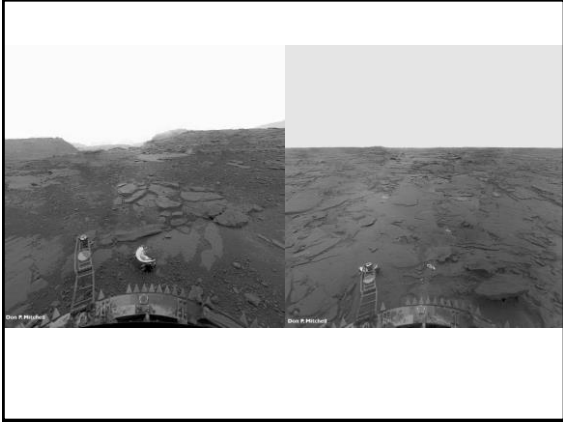
Exploration of Venus
USSR - *Venera* Program



ВЕНЕРА-9 22.10.1975 ОБРАБОТКА ИППИ АН СССР 28.2.1976

ВЕНЕРА-10 25.10.1975 ОБРАБОТКА ИППИ АН СССР 28.2.1976



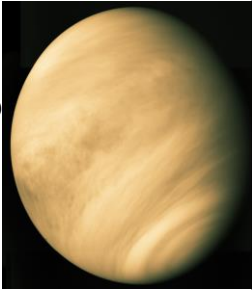


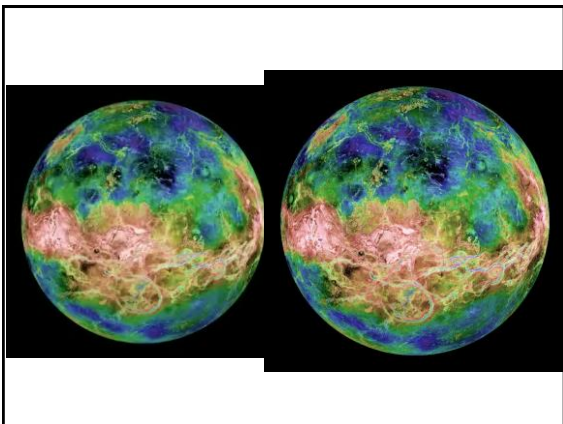
US Missions

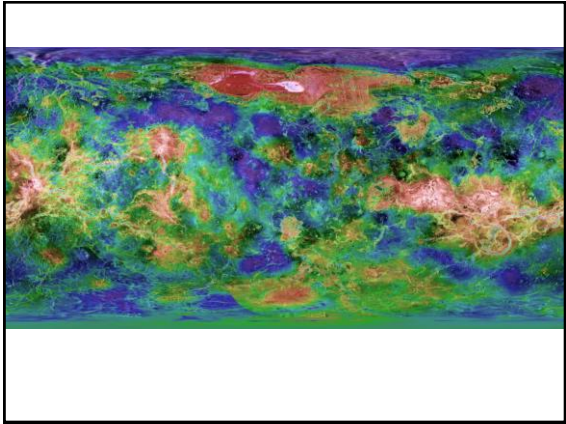
- Pioneer 1, 2* (1978)
- Magellan* (1990-1994)

European Mission

- Venus Express* (2006-14)







Landforms on Venus

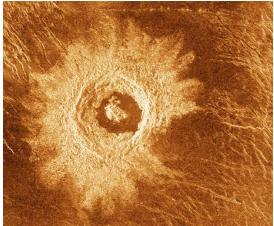
Circular, low elevation, like impact basins

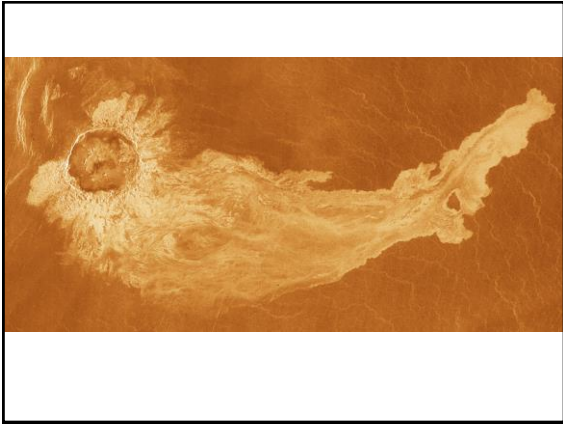
Main feature, mountains, craters, volcanoes

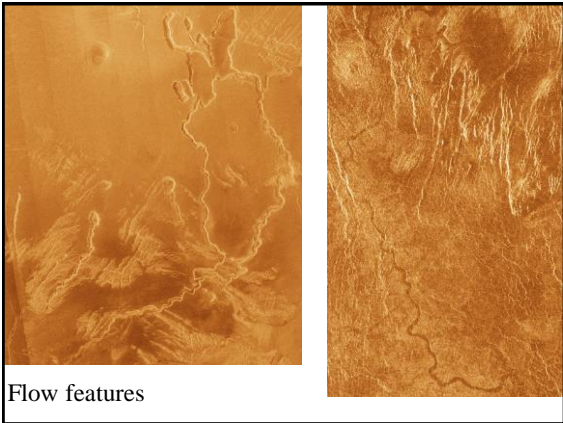
_____ (in the North) - Maxwell Montes

_____ (along the equator)

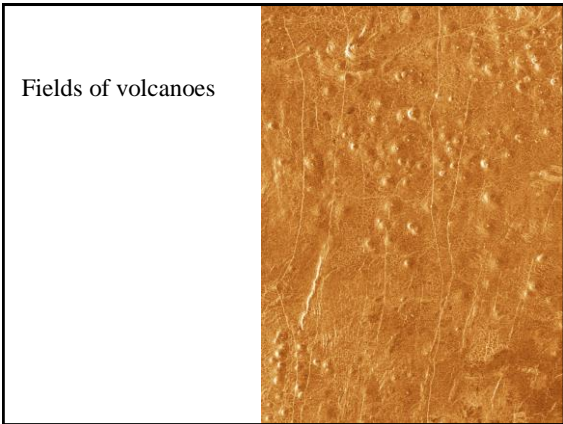
Surface Features - Craters





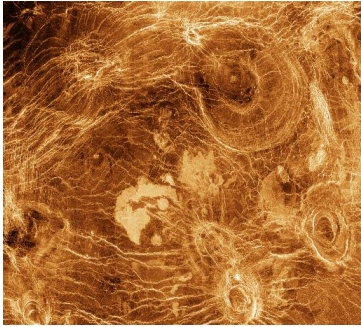


Flow features

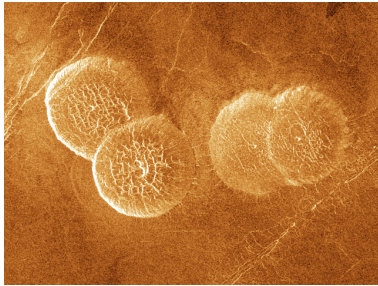


Fields of volcanoes

Arachnoids



Pancakes



The Tick

