

GOOGLE MARS

- (1) In the 'Fly To' box, enter the coordinates: 49.8S, 4.6W. You will now fly to this location which is the site of an impact crater on Mars, named 'Roddenberry crater' after the creator of Star Trek, Gene Roddenberry. How many other craters can you see on top of the Roddenberry crater?
- (2) Using the measure tool , measure the diameter of the Roddenberry crater.
- (3) Now find the position of the 'Bond' crater on Mars by using the 'Fly To' box. Zoom in on this area once it has been pinpointed. Using the measure tool and measure the diameter of the Bond crater.
- (4) In the 'Fly To' box, enter the name Orcus Patera. What do you think could have caused a crater this shape?
- (5) In the 'Fly To' box, enter the coordinates: 14.6S, 82.9W. This crater is called the 'Odd Crater'. Zoom in on this crater- why do you think it has this name?

Zoom in/out of Google Mars until your window is filled with a Google Mars image. Look at the distribution of impact craters in this image and answer the following questions:

- (6) How does it compare to a similar image on Google Earth? Are there similar numbers of craters?
- (7) What factors would affect the number of craters that we can see both on Mars and Earth?
- (8) What other features can be seen on the surface of Mars? Identify three features that are similar to what we have here on Earth. Record their latitude/longitude positions.
- (9) Do you see any evidence for water on Mars? Where (identify at least two different locations)? How do you know/why do you think so?