



STUDENT WORKSHEET I

Initial Observations and Strategies

Name(s) _____

Date _____

Look at the Thermal Emission Imaging System (THEMIS) Daytime Infrared (IR) image mosaic your teacher has given you. You will be investigating this image throughout this activity looking for clues about the geologic history of this region. Areas where no THEMIS data has been acquired yet are seen as vertical black lines on the image.

1. What is the name of your region on Mars: _____

2. What are the two main geologic features seen in your image? Explain the process of how these features form.

A. Geologic Feature: _____

Formation:

B. Geologic Feature: _____

Formation:

3. List two pairs of geologic features (two craters, or a crater and a channel) that you feel you can determine which you feel is younger or older. Briefly describe where those features are located on your image mosaic (NW part of image, center of image, etc.):

A. Two Features: _____ Location: _____

Younger Feature: _____

Older Feature: _____

B. Two Features: _____ Location: _____

Younger Feature: _____

Older Feature: _____

4. Describe two strategies (methods) you used to determine which features are younger/older.

A.

B.