**Bit 18 test**

**Cloud flag – Infrared Temperature Difference Test**

Tests for difference between brightness temperatures at 11 µm and 12 µm.

Test:

Band 31 (thermal emissive channel 10, wavelength 11 µm) vs

Band 32 (thermal emissive channel 11, wavelength 12 µm)

Produces 3 maps:

**Bit 19 test**

**Cloud Flag – 3.9-11µm test**

Tests for difference between brightness temperatures at 11 µm and 3.9 µm.

Test:

Band 31 (thermal emissive channel 10, wavelength 11 µm) vs

Band 22 (thermal emissive channel 2, wavelength 3.9 µm)

**Bit 21 test**

**Cloud Flag – Visible Ratio Test**

Tests for ratios of reflectivity between wavelengths of 0.87 µm and 0.66 µm

Test:

Band 16 (1 km reflective channel 8, wavelength 0.87 µm) vs

Band 13 (1 km reflective channel 5, wavelength 0.66 µm)

**Bit 24 test**

**Cloud Flag – Water 8.6 – 11 µm test**

Tests for difference between brightness temperatures at 11 µm and 8.6 µm.

Test:

Band 31 (thermal emissive channel 10, wavelength 11 µm) vs

Band 29 (thermal emissive channel 8, wavelength 8.6 µm)