



Planetary Remote Sensing Studies of Mars and Moon **Department of Remote Sensing**



Seasonal thermal inertia variations at Gale Crater, Mars: Role of active surface deposition phenomena



A tour of Mars through different orbiter images



A2

B2

Fig. 3 (a) South Pole summer maximum temperatures between 1200-1300 Fig. 4 Summer nighttime temperatures of Cabeus crater at (a) 2000 and (b) 2100 hours local time hours, (b) South Pole winter maximum temperatures between 1200-1300 hours

abeus BrightnessTemperature 22 Hrs. (2009-12



Fig. 5 (a) South Pole summer temperature map at 1800 hours for latitudes



abeus BrightnessTemperature 23 Hrs. (2009-12)

Fig. 6 Summer nighttime temperatures of Cabeus crater at (a) 2200 and (b) 2300 hours local



5 10 20 30 4

Fig. 5 (A) Comparison between the unprocessed HySI radiance image (750 nm) on the left

for the Apollo-17 landing site, (B) the georeferenced apparent reflectance HySI image (750 nm) in the centre and, (C) the spatially transformed photometrically corrected HySI

reflectance image (750 nm) on the right