

All stacks mapped to polar stereographic projection at 94 m/pixel and maptrim'd to the following:

lat: 87.15 - 88.54 N

lon: 60 - 97 E

1. DEM (km)
2. Azimuth (degrees - orientation of crater wall): -180 - +180
3. Slope (degrees): 0 - 90
4. Maximum Incident Solar Flux ( $W m^{-2}$ )
5. Maximum Temperature (K) - All temperature and depth models are calculated over a two-year illumination cycle using MLA+SfS DEMs
6. Average Temperature (K)
7. Minimum Temperature (K)
8. Anthracene depth (m) - All stability depth models are calculated up to 2.5m beneath the surface. Negative values are thermally stable at the surface!
9. Coronene Depth (m)
10. Ice Depth (m)
11. Sulfur Depth (m)
12. Radar (radar3b - reflectance values)
13. EW0224424682G Simulation (All simulations: radiance received by MDIS - Intensity/Flux)
14. EW0246676609G Simulation
15. EW0250939615G Simulation
16. EW0254280826G Simulation
17. EW0254482487G Simulation
18. EW0254511306G Simulation
19. EW0254540086G Simulation
20. EW0254655331G Simulation
21. EW0255519506I Simulation
22. EW0255548338G Simulation

23. EW0255663547G Simulation
24. EW0255663560I Simulation
25. EW0265572166G Simulation
26. EW0265888857G Simulation
27. EW1000215185G Simulation
28. EW1004161613B Simulation
29. EW1015655046B Simulation
30. EW1018679692B Simulation
31. EW1004161613B (WAC-B broadband filter: all broadband images are DN values corrected for dark, smear, and non-linearity)
32. EW1015655046B
33. EW1018679692B

File cub names (used for cubeit):

run-DEM-final-Kandinsky\_94mpp\_trim.cub  
run-DEM-final-Kandinsky\_azim\_94mpp\_trim.cub  
run-DEM-final-Kandinsky\_slp\_94mpp\_trim.cub  
maxinclfx\_1h\_Kandinsky\_SfS\_94mpp\_trim.cub  
Kandinsky\_Tmax\_94mpp\_trim.cub  
Kandinsky\_Tav\_94mpp\_trim.cub  
Kandinsky\_Tmin\_94mpp\_trim.cub  
Kandinsky\_Danth\_94mpp\_trim.cub  
Kandinsky\_Dcor\_94mpp\_trim.cub  
Kandinsky\_Dice\_94mpp\_trim.cub  
Kandinsky\_Dsulf\_94mpp\_trim.cub  
radar3b.map2\_94mpp\_Kandinskytrim.cub  
simulationMDIS\_Kandinsky\_EW0224424682G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0246676609G\_all\_94mpp\_trim.cub

simulationMDIS\_Kandinsky\_EW0250939615G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0254280826G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0254482487G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0254511306G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0254540086G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0254655331G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0255519506I\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0255548338G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0255663547G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW0255663560I\_all\_94mpp\_trim.cub  
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simulationMDIS\_Kandinsky\_EW0265888857G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW1000215185G\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW1004161613B\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW1015655046B\_all\_94mpp\_trim.cub  
simulationMDIS\_Kandinsky\_EW1018679692B\_all\_94mpp\_trim.cub  
EW1004161613B\_94mpp\_trim\_pad\_trans0\_darknorespo.cub  
EW1015655046B\_94mpp\_trim\_pad\_trans0\_darknorespo.cub  
EW1018679692B\_94mpp\_trim\_pad\_trans0\_darknorespo.cub