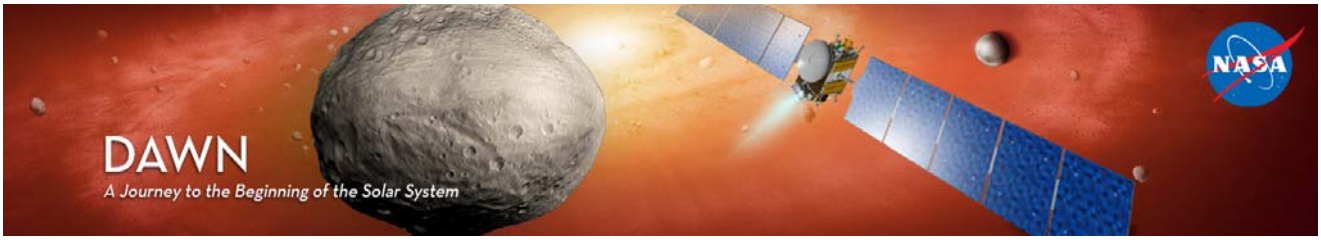
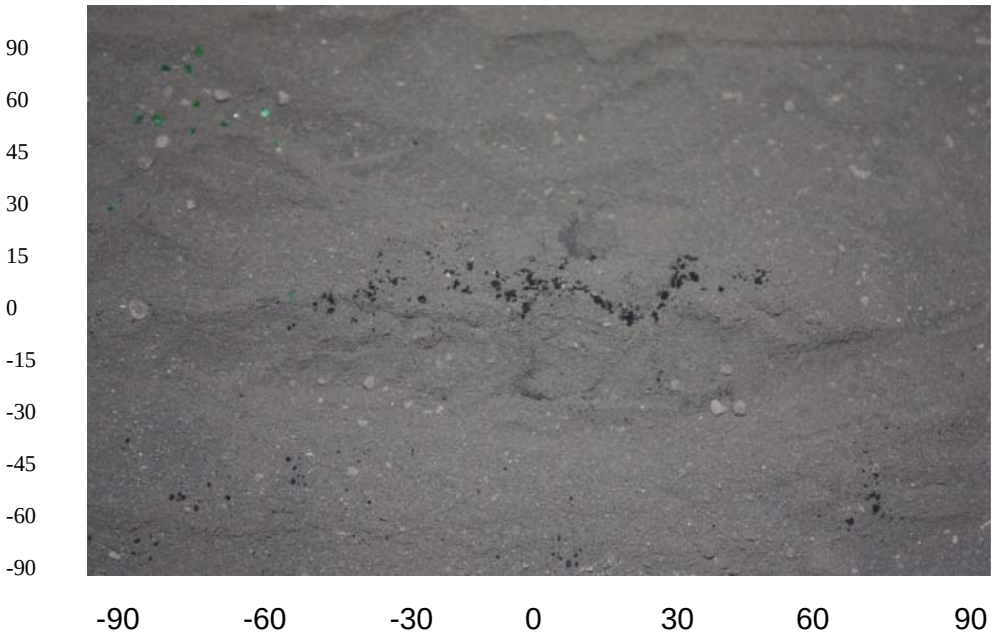


Card Number 1 – Framing Camera Data — Simulated Surface Map



Location	Longitude (degrees)	Latitude (degrees)
1	-80	50
2	-60 to -75	0 to -15
3	0 to 5	-30
4	30 to 35	10 to 15
5	40 to 50	-30
6	70	35
7	75 to 80	-45 to -70

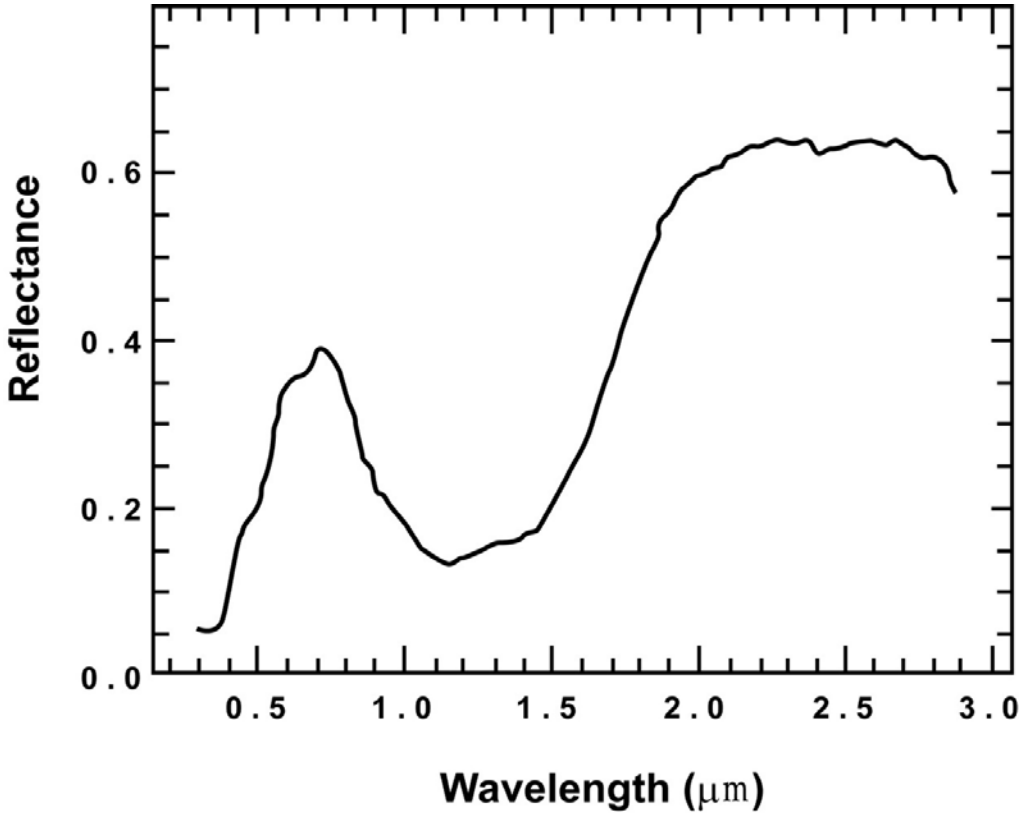
Framing Camera Albedo Data

Location	Longitude (degrees)	Latitude (degrees)	Albedo
1	-80	50	Light
2	-60 to -75	0 to -15	Medium
3	0 to 5	-30	Dark
4	30 to 35	10 to 15	Dark
5	40 to 50	-30	Light
6	70	35	Light
7	75-80	-45 to -70	Dark

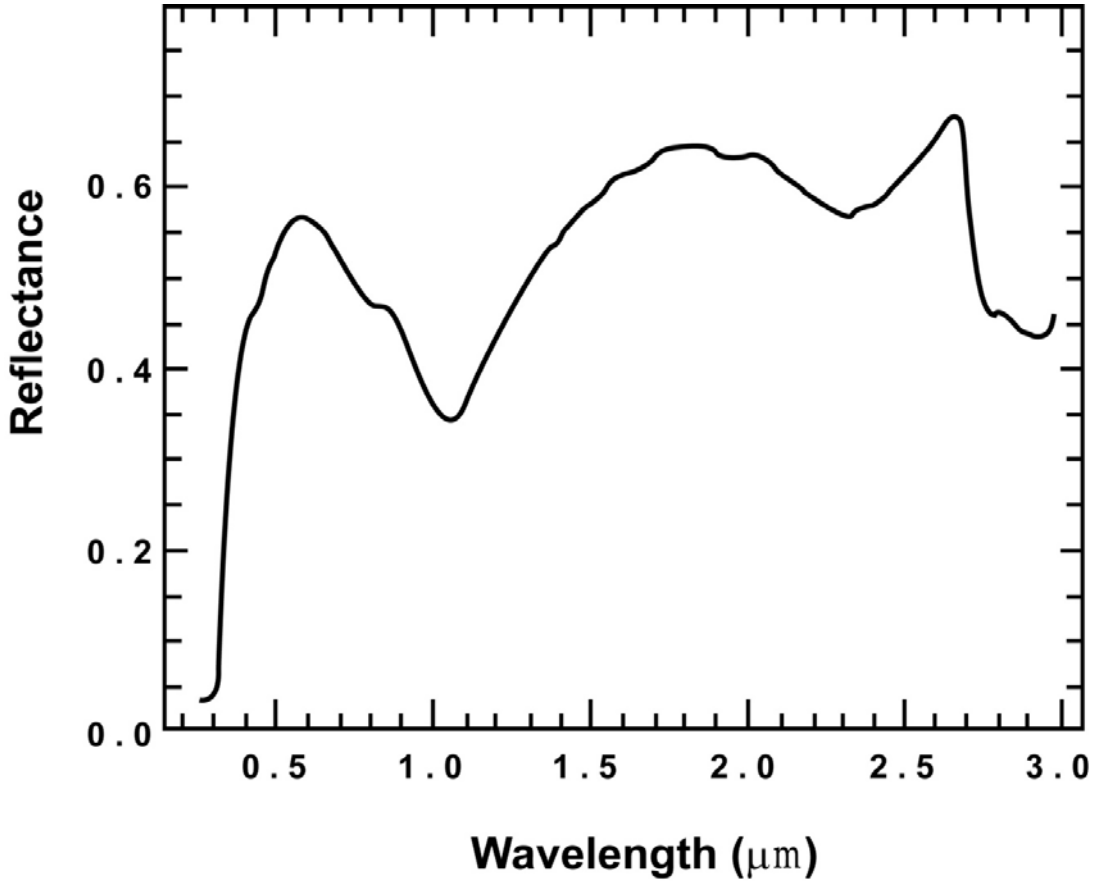
Card Number 2 — Gravity Measurement Data

Location	Longitude (degrees)	Latitude (degrees)	Change in Line of Sight velocity (m/s)
1	-80	50	-3
2	-60 to -75	0 to -15	0
3	0 to 5	-30	-3
4	30 to 35	10 to 15	+10
5	40 to 50	-30	-5
6	70	35	-10
7	75-80	-45 to -70	+2

Card Number 3 — VIR Reflectance Spectra Data
Location 1.

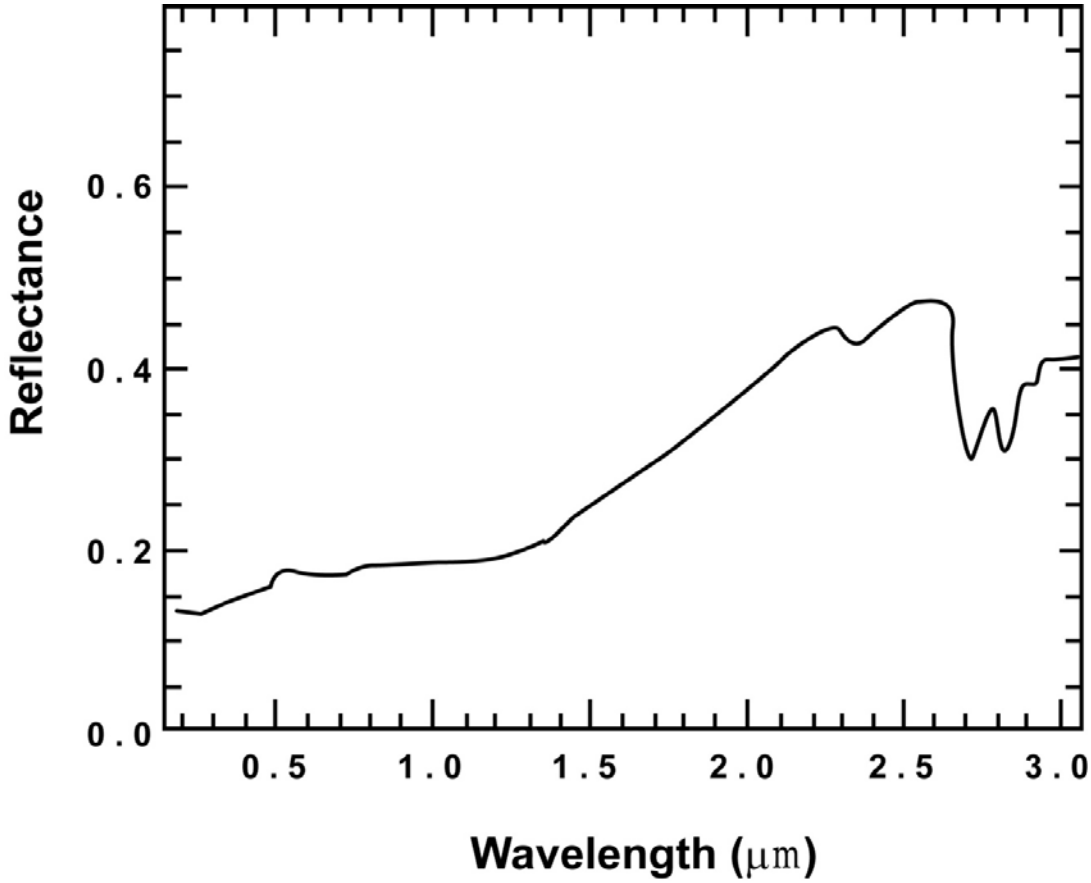


Card Number 3 — VIR Reflectance Spectra Data
Location 2.

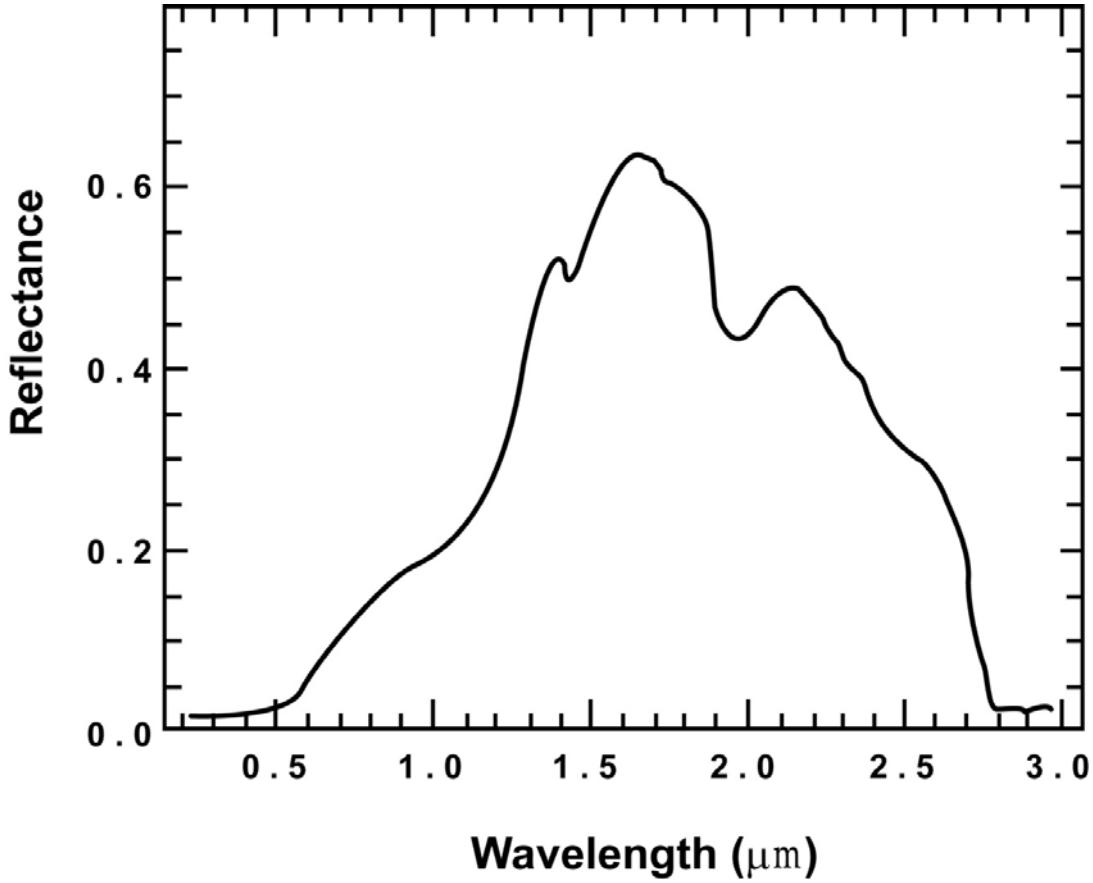


Card Number 3 — VIR Reflectance Spectra Data

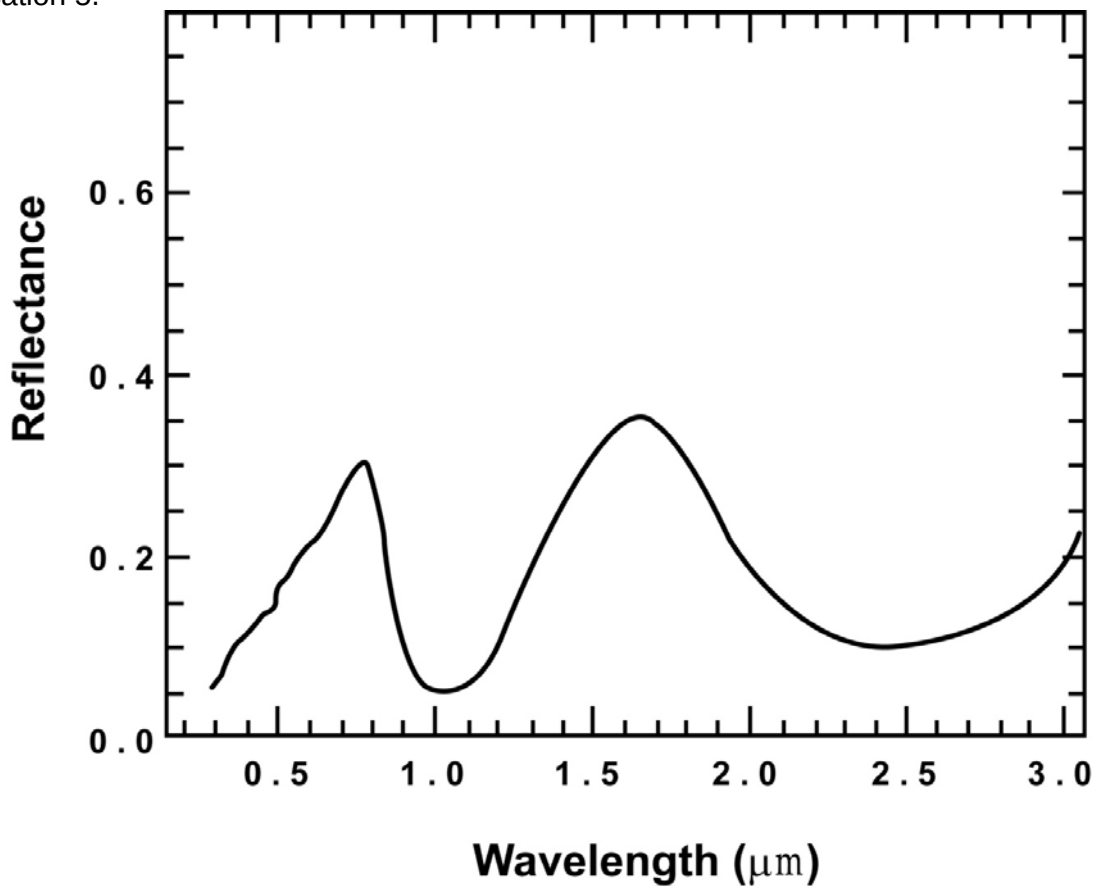
Location 3.



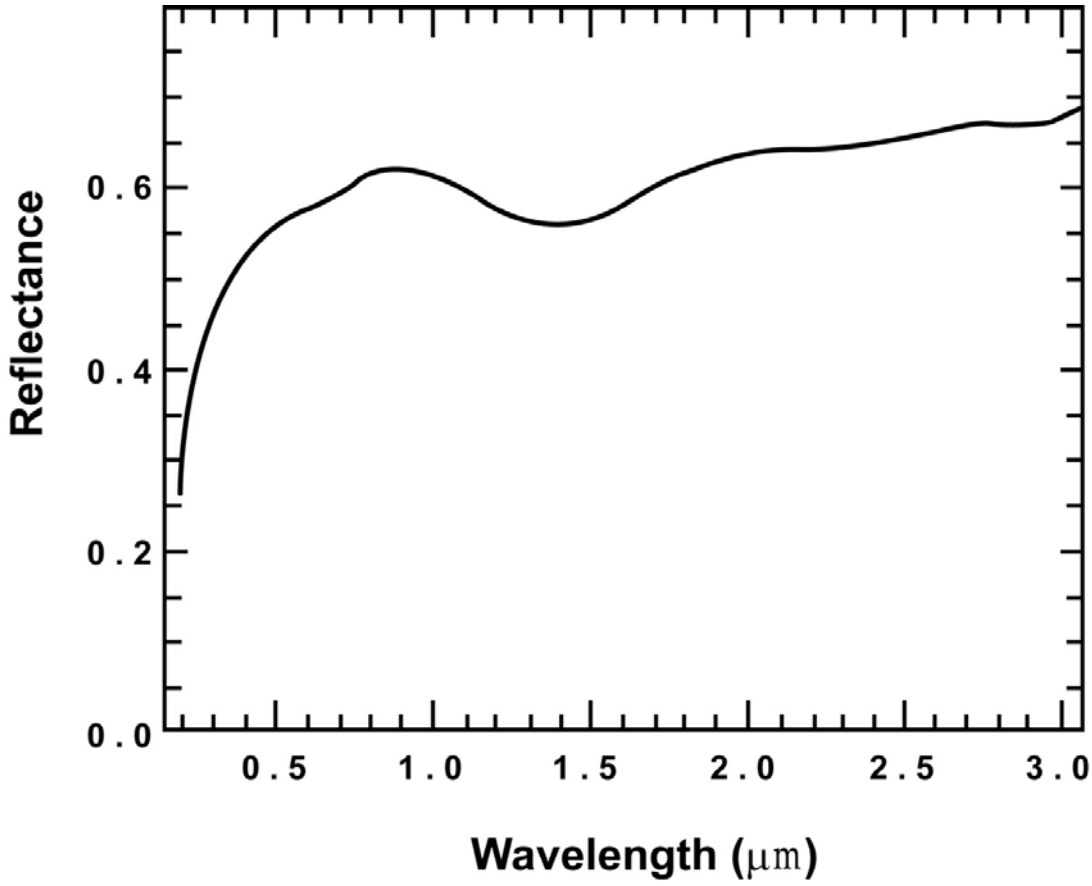
Card Number 3 — VIR Reflectance Spectra Data
Location 4.



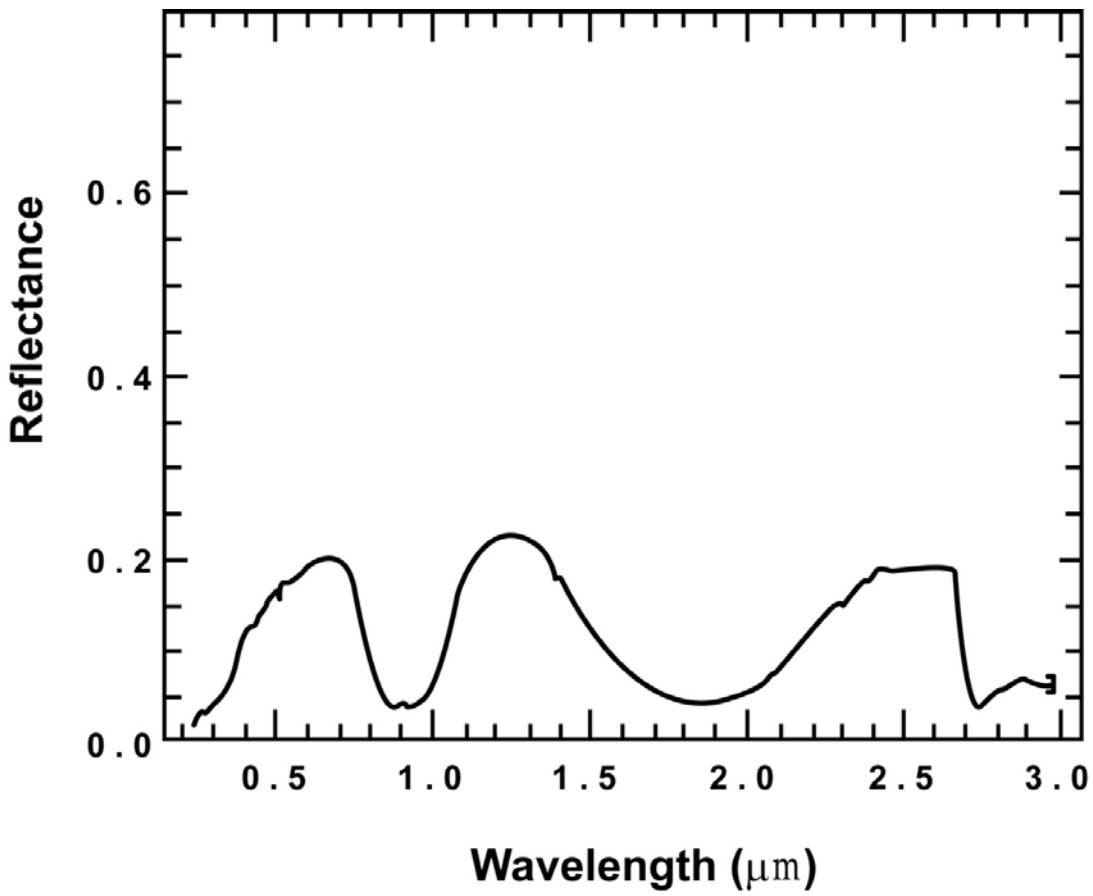
Card Number 3 — VIR Reflectance Spectra Data
Location 5.



Card Number 3 — VIR Reflectance Spectra Data
Location 6



Card Number 3 — VIR Reflectance Spectra Data
Location 7.



Card Number 4 — GRaND Chemical Composition/Concentration Data

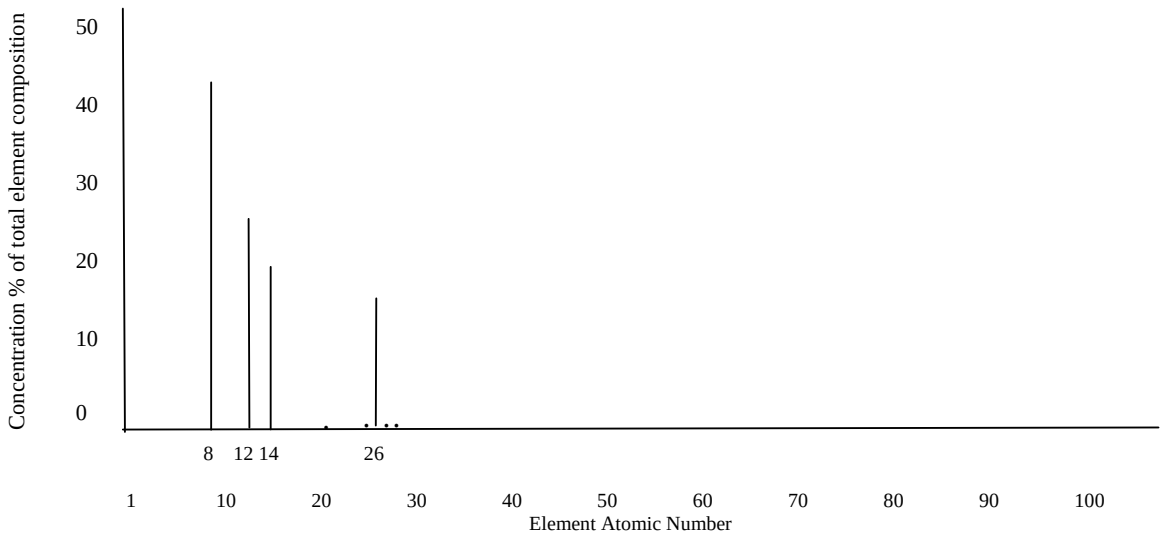
Handout: Using the GRaND Chemical Concentration Data

The atomic numbers of the elements having concentrations greater than a trace are shown immediately below the % concentration lines in the GRaND Spectroscopic Data Graphs given for specific locations on the surface being studied. These elements include:

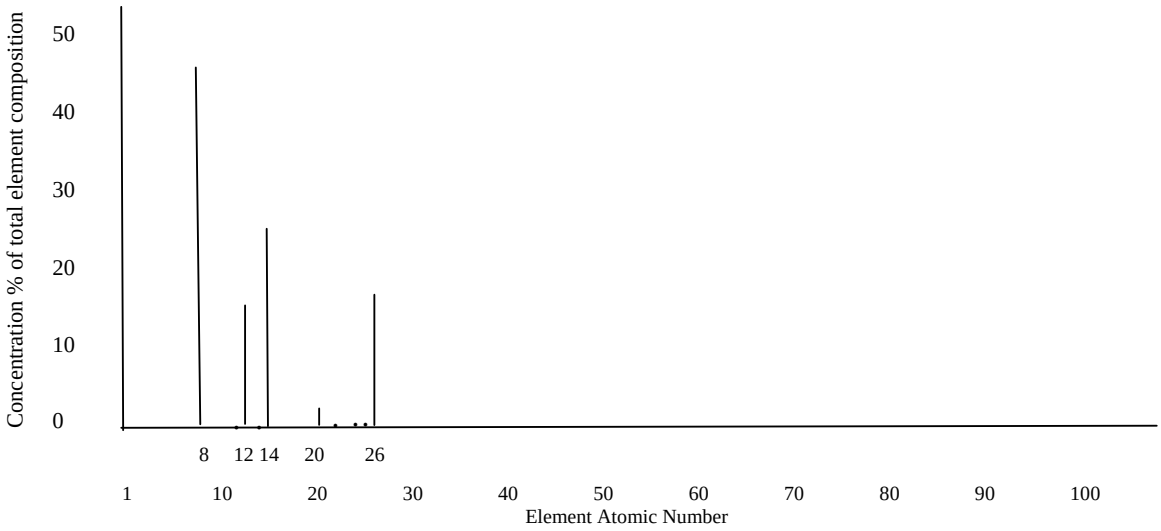
Chemical Element	Atomic Number
Aluminum	13
Calcium	20
Chromium	24
Cobalt	27
Fluorine	9
Hydrogen	1
Iron	26
Magnesium	12
Manganese	25
Nickel	28
Oxygen	8
Potassium	19
Silicon	14
Sodium	11
Sulfur	16
Titanium	22

The short line (.) indicates the atomic number of possible trace elements associated with the mineral.

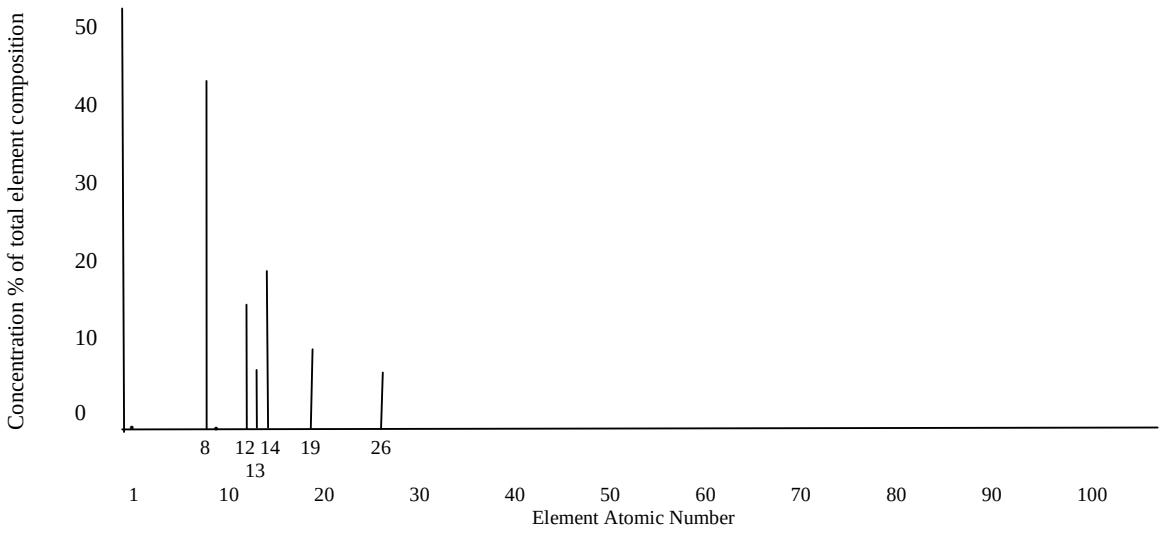
Card Number 4 — GRaND Chemical Composition/Concentration Data
Location 1.



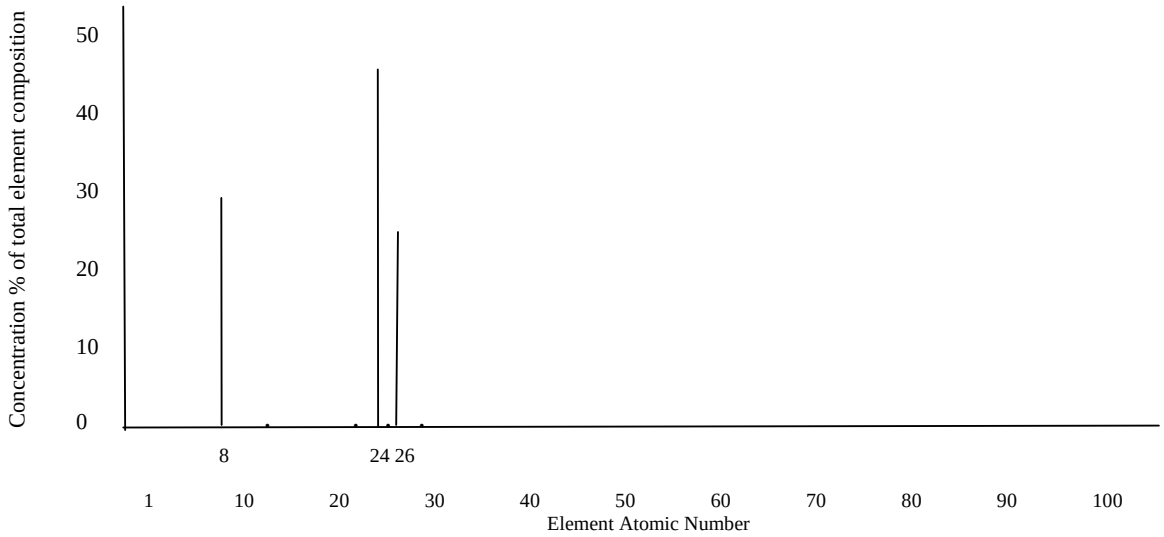
Card Number 4 — GRaND Chemical Composition/Concentration Data
Location 2.



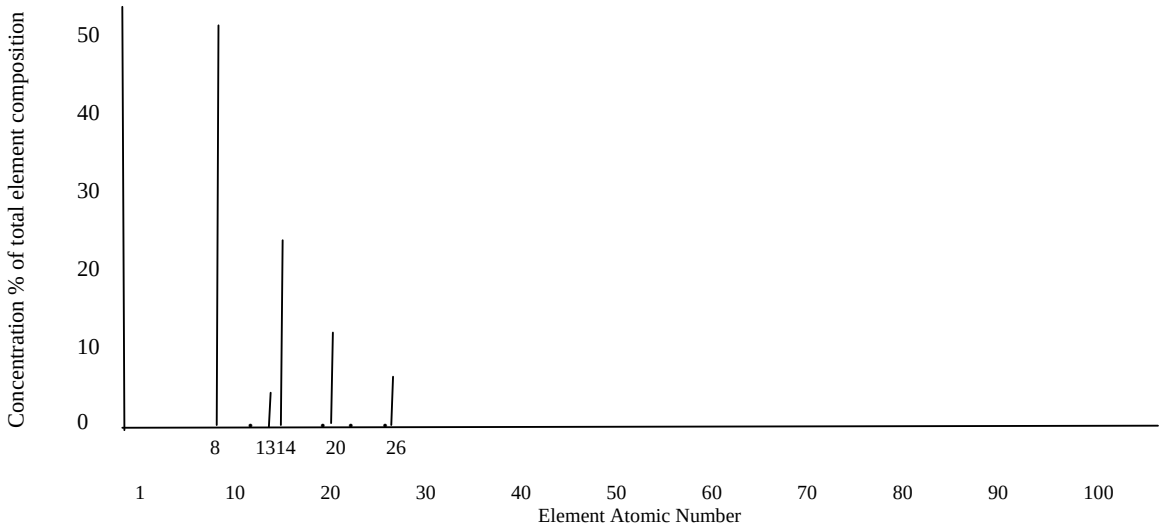
Card Number 4 — GRaND Chemical Composition/Concentration Data
Location 3.



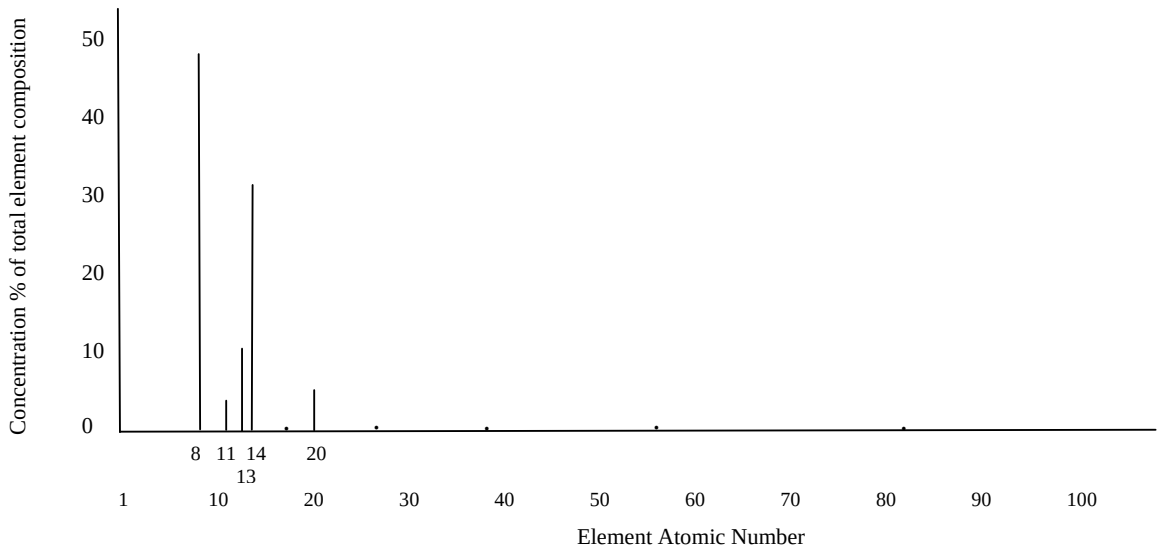
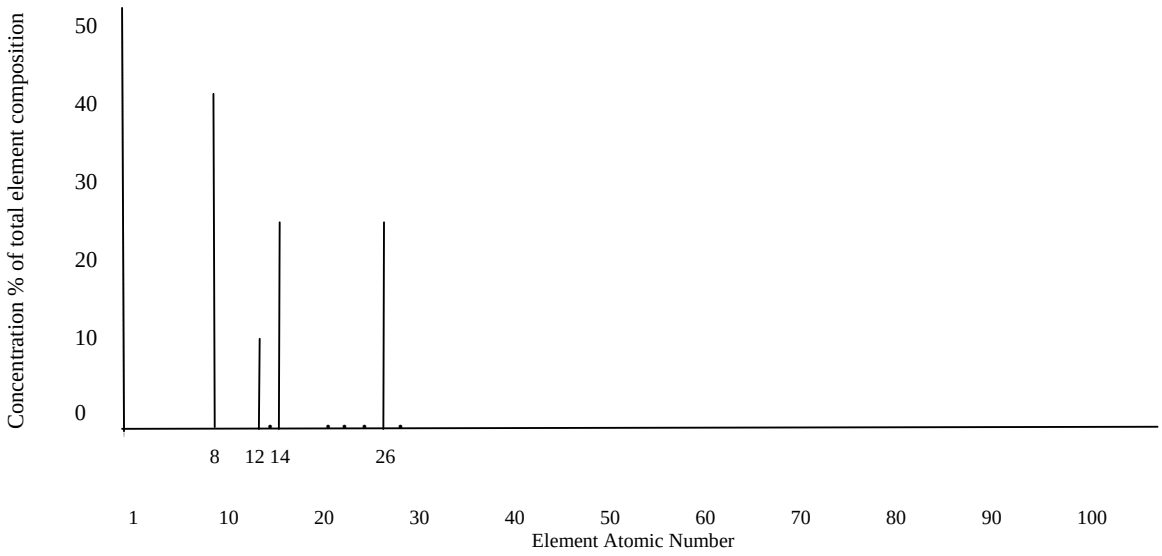
Card Number 4 — GRaND Chemical Composition/Concentration Data
Location 4.



Card Number 4 — GRaND Chemical Composition/Concentration Data
Location 5.



Card Number 4 — GRaND Chemical Composition/Concentration Data
Location 6.



Card Number 4 — GRaND Chemical Composition/Concentration Data
Location 7.