

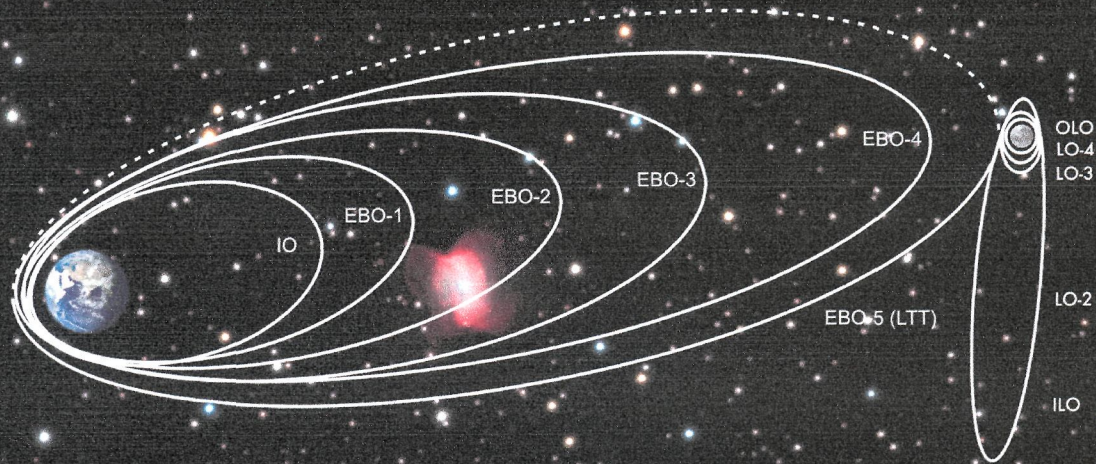




Lift Off Mass: 319 tons

Payload Lift off capability

- **SSPO : 1750kgs**
- **GTO : 1140kgs**
- **EPO : 1320kgs**
(260km X 22860km)



IO: Initial (Earth) Orbit : 255 km x 22,860 km

EBO: Earth Bound Orbit

EBO-1 : apogee at 37,900 km

EBO-2 : apogee at 74,715 km

EBO-3 : apogee at 164,600 km

EBO-4 : apogee at 267,000 km

EBO-5 (LTT-Lunar Transfer Trajectory): apogee at 380,000 km

ILO (Initial Lunar Orbit)

LO : Lunar Orbit

LO-2

LO-3

LO-4

OLO (Operational Lunar Orbit)

: 504 km x 7502 km

: 200 km x 7502 km

: 182 km x 255 km

: 182 km x 100 km

: 100 km x 100 km



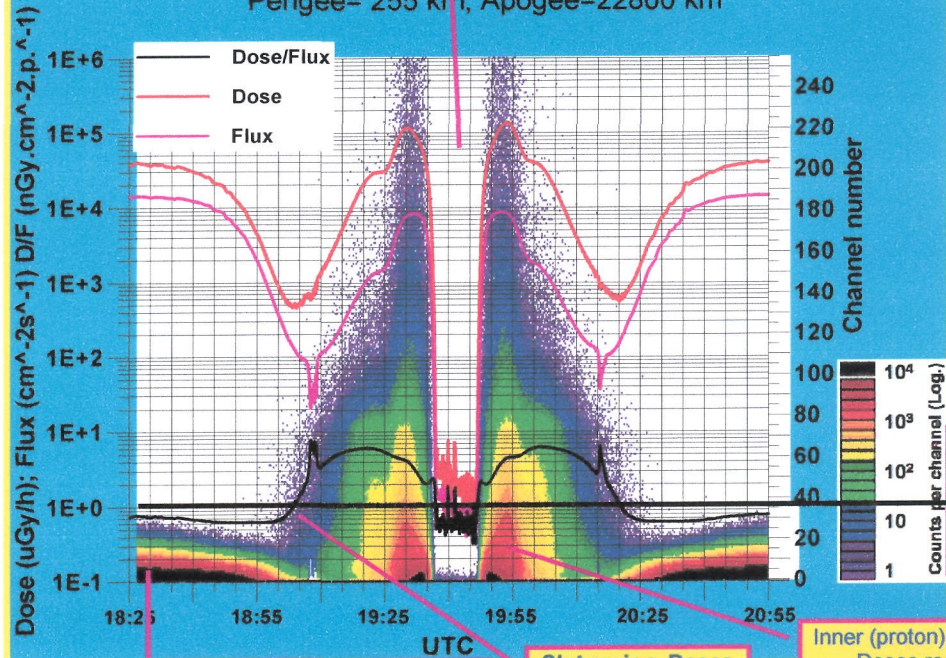


Perigee region. Doses fall down to minimal values of $1-2 \mu\text{Gy}\cdot\text{h}^{-1}$.

Chandrayan-1, RADOM

22 October 2008

Perigee= 255 km; Apogee=22800 km



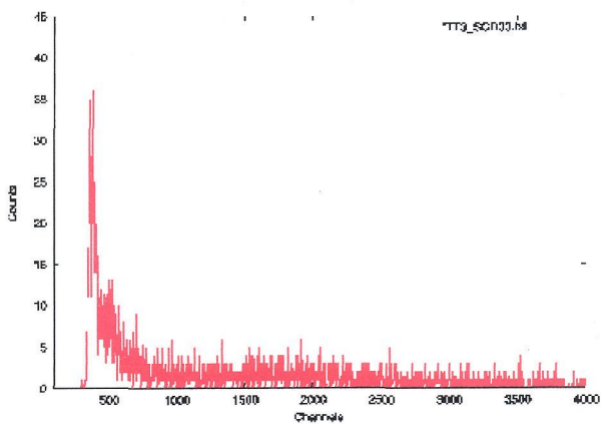
When $D/F > 1 \text{ nGy}\cdot\text{cm}^2\cdot\text{part}^{-1}$
mainly proton population.

When $D/F < 1 \text{ nGy}\cdot\text{cm}^2\cdot\text{part}^{-1}$
mainly electron population.

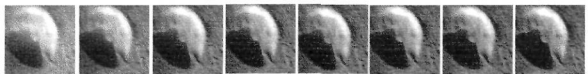
Apogee
Outer (electron) radiation belt
(apogee). Doses reach 40000 $\mu\text{Gy}\cdot\text{h}^{-1}$.

Slot region. Doses fall down to values of $450 \mu\text{Gy}\cdot\text{h}^{-1}$.

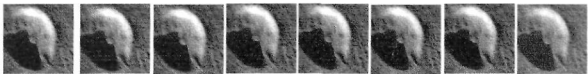
Inner (proton) radiation belt.
Doses reached the maximum values of about $130000 \mu\text{Gy}\cdot\text{h}^{-1}$.



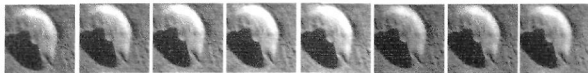
LUNAR CRATERLET (BARROW H) IMAGED BY CHANDRAYAAN-1 HYSI CAMERA (64 BANDS) ON 16-NOV-2008



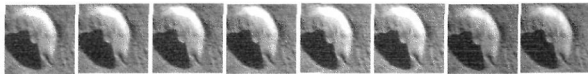
B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8



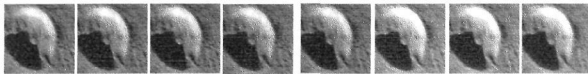
B-9 B-10 B-11 B-12 B-13 B-14 B-15 B-16



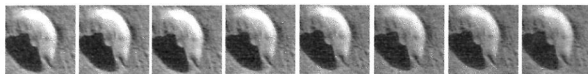
B-17 B-18 B-19 B-20 B-21 B-22 B-23 B-24



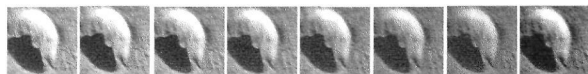
B-25 B-26 B-27 B-28 B-29 B-30 B-31 B-32



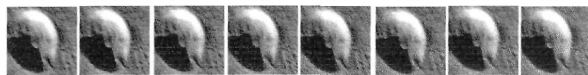
B-33 B-34 B-35 B-36 B-37 B-38 B-39 B-40



B-41 B-42 B-43 B-44 B-45 B-46 B-47 B-48



B-49 B-50 B-51 B-52 B-53 B-54 B-55 B-56



B-57 B-58 B-59 B-60 B-61 B-62 B-63 B-64

