


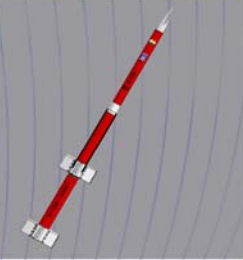


Sounding Rockets of ISRO: Opportunities for Atmospheric and Space Research

	RH200	RH 300 Mk II	RH 560 Mk III	ATV-EX
				
No. of stages	2	1	2	2
Length (m)	3.9	5.5	10.3	13
Lift off weight (kg)	108	505	1810	2950
Payload capability (kg)	14	60	100	400
Altitude (km)	55	150	560	260
Launch site	Trivandrum, Kerala & Sriharikota, Andhra Pradesh	Trivandrum, Kerala & Sriharikota, Andhra Pradesh	Sriharikota, Andhra Pradesh	Sriharikota, Andhra Pradesh

FEATURES

- Launch near Earth's Magnetic equator – Thumba, Trivandrum, Kerala
- Offers microgravity environment condition for ~6 minutes
- Short turn around time
- Essential data through Telemetry

PROSPECTIVE RESEARCH AREAS

- Boundary layer physics and aerosol chemistry
- Upper Atmospheric Research
- Plasma, solar and astrophysics, solar flare emissions
- Airglow (UV and X-rays) and electro glows of outer planets
- Research on auroral and non-auroral phenomenon
- Deep space observations and planetary science
- Plasma bubble studies during night, radio propagation studies
- Flight testing of emerging avionics systems
- Microgravity experiments on materials, biosciences, physics, etc.

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