

HotPay Services

For the HotPay Services through the ALOMAR eARI, Andøya Rocket Range (ARR) offers to the scientists the opportunity to mount their instruments in newly developed, small standardised payloads called “Hotel Payloads” to be launched from Andøya.

Possibilities by the HotPay Services

Two rockets launches:

- Summer Launch & Winter Launch

Available ground support instruments:

- ALOMAR, USOC, AIRIS, EISCAT and CUTLASS

The costs for the Launch Vehicle, Launch Operation, Service Section and Technical Support are covered, while the scientists must provide funding to develop and build their own instrument.

All Travel & Subsistence cost, as well as transport cost for scientific instruments are also covered.

HotPay Technical Parameters

Typical values for individual instruments:

- Power Consumption: 250 – 300 mA
- Weight: 1 – 2 kg
- Inner Diameter Available: 180 mm

Typical Values for all instruments together:

- Power Consumption: 2 – 4 Ah
- Weight: 10 – 15 kg
- Volume, Centre section: 25.5 l
- Volume, Nosecone: 9.3
- Power: 24 V DC
- Bit Rate: 10 Mbit/s

Summer Launch (June – July, 2006)

Studies of the middle atmosphere:

- 60 – 120 km

Launch conditions:

- NLC (Noctilucent Cloud) and/or PMSE (Polar Mesospheric Summer Echoes) presence
- Magnetic Quiet or Disturbed conditions

Examples of parameters that may be measured:

- Pressure, Temperature, Density, Aerosol content, Plasma density, Chemical composition, Turbulence and Wave Structure

Winter Launch (Jan – Feb, 2007)

Studies of the ionosphere and aurora

- 60 – 250 km

Launch conditions:

- Geomagnetic Disturbance, Aurora

Examples of parameters that may be measured:

- E-Field and plasma Density, Ion mass distribution, Temperature, Plasma Fine Structure. Auroral optical emissions.

Closing Dates for Applications

- 15th October, 2004

Before you forward any applications, we recommend that you contact Prof. Eivind Thrane in advance (eivind@rocketrange.no). Prof. Thrane is the scientific advisor and he will assist you with any inquiries or problems you might have.

If any technical questions, please contact Gudmund Hansen (gudmund@rocketrange.no)

As participants in the EU's 6th FP, we invite scientists to participate and exploit the advantages of this unique opportunity of in-situ measurements with sounding rockets.