Swiss Neutron Monitors

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Jungfraujoch

Altitude: 3500 m asl
Air pressure: 619 mbar < p < 675 mbar; p(average) ≈ 653.3 mbar
Air temperature: -37°C < T < +10°C; T(average) ≈ -8.2°C


Jungfraujoch
IGY
NM64

IGY Neutron Monitor Jungfraujoch

1957 - present

Roof of Sphinx building

1957 - 1966 12 IGY
1966 - 18 IGY

3-NM64 Neutron Monitor Jungfraujoch

1986 -present

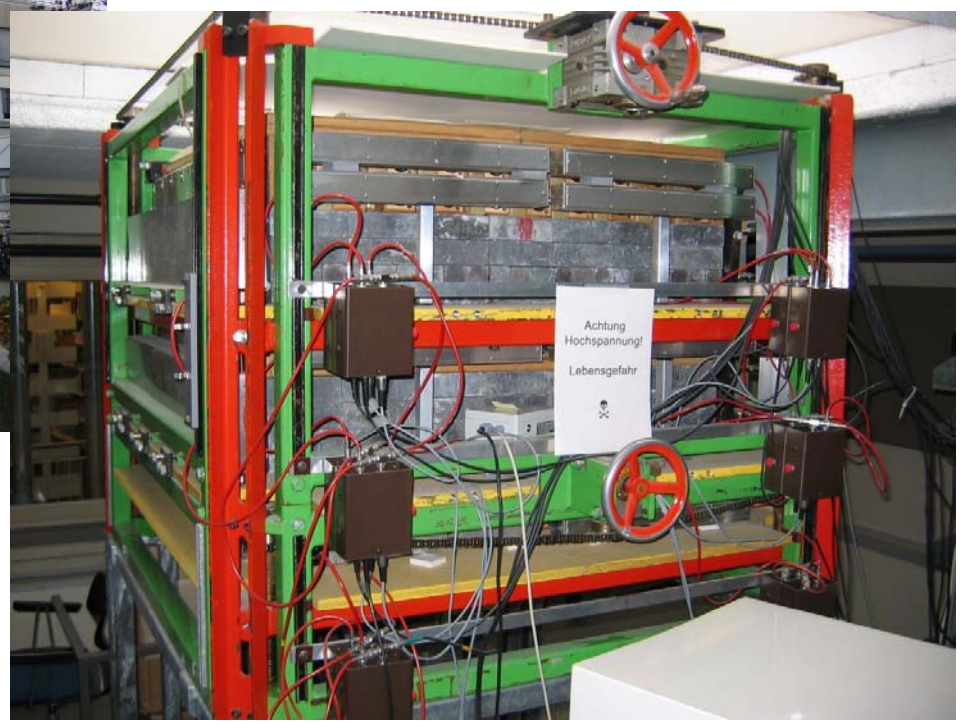
Roof of Research Station

Special Neutron Monitor Bern

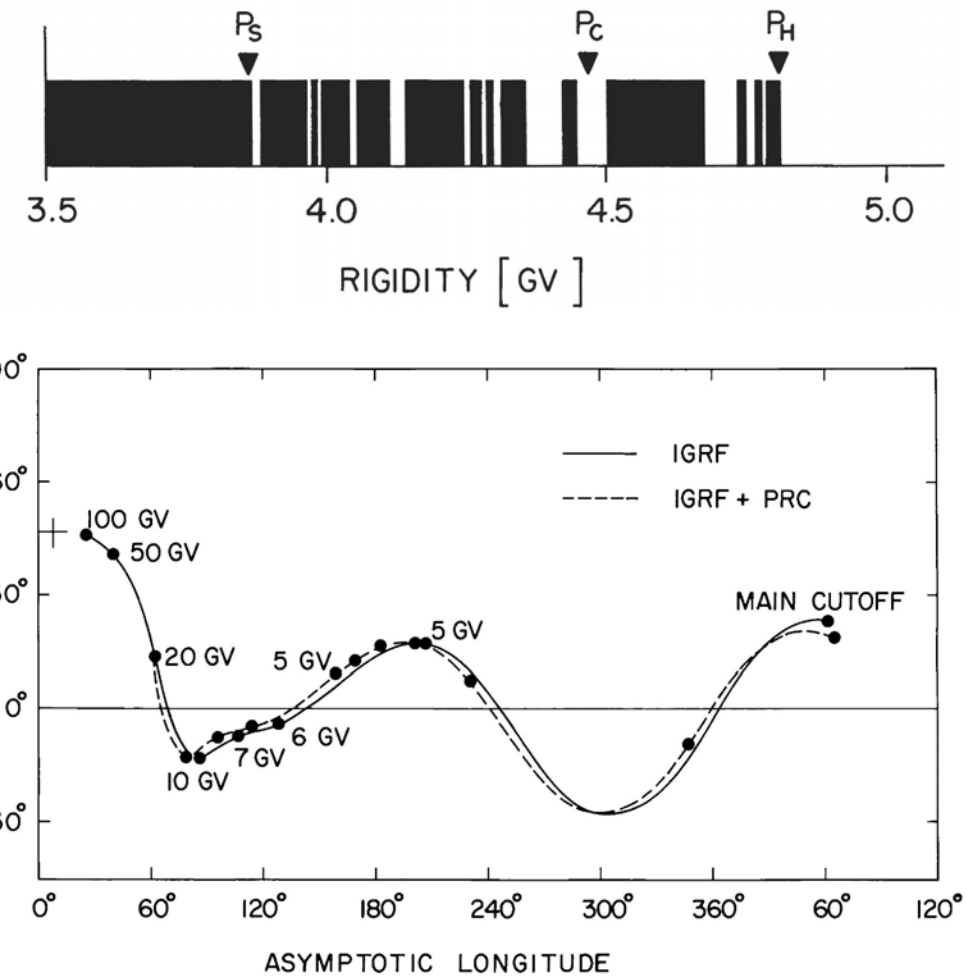
1977 - present

Roof of Physics Institute, University of Bern

58 IGY counter tubes

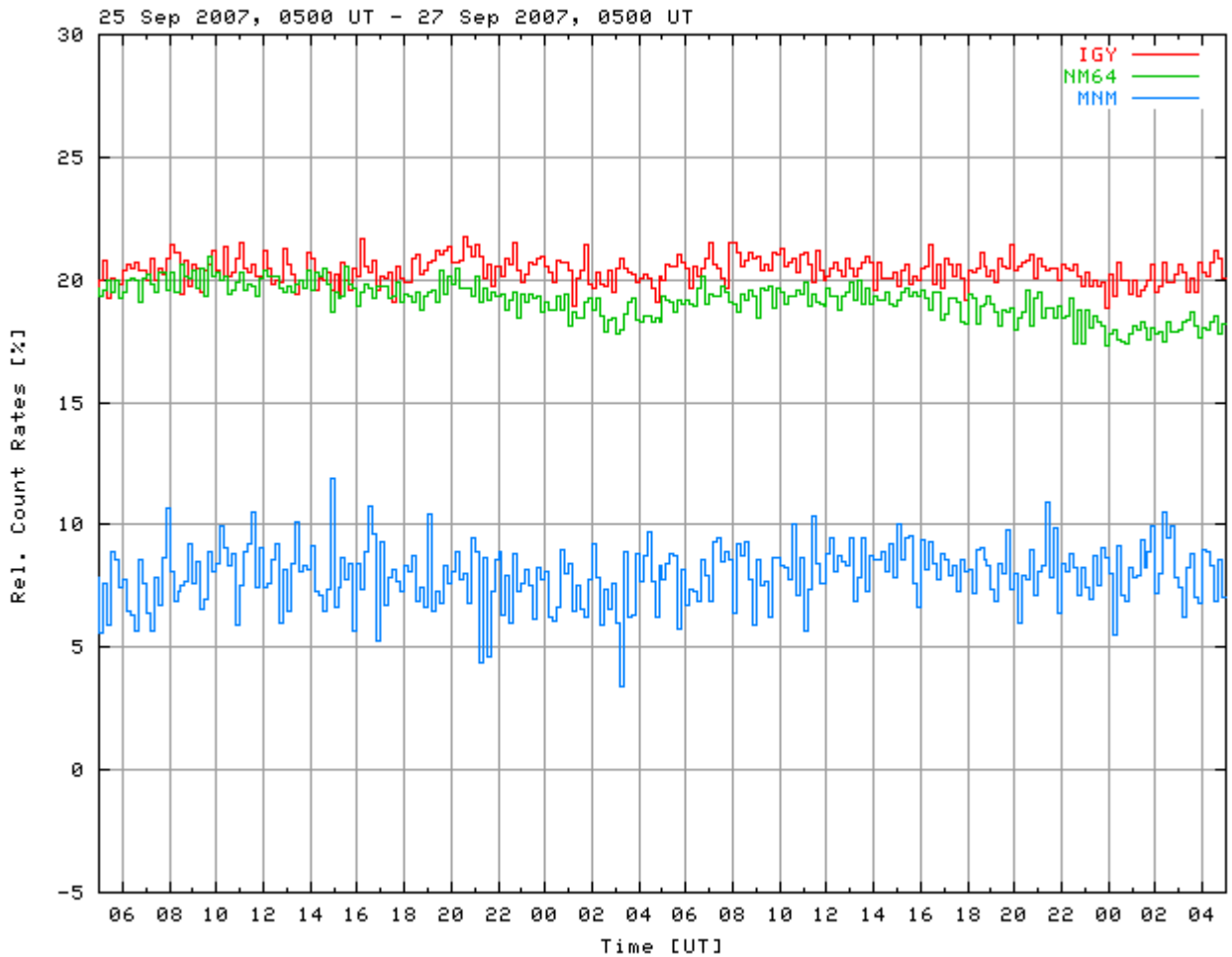


Observational Characteristics

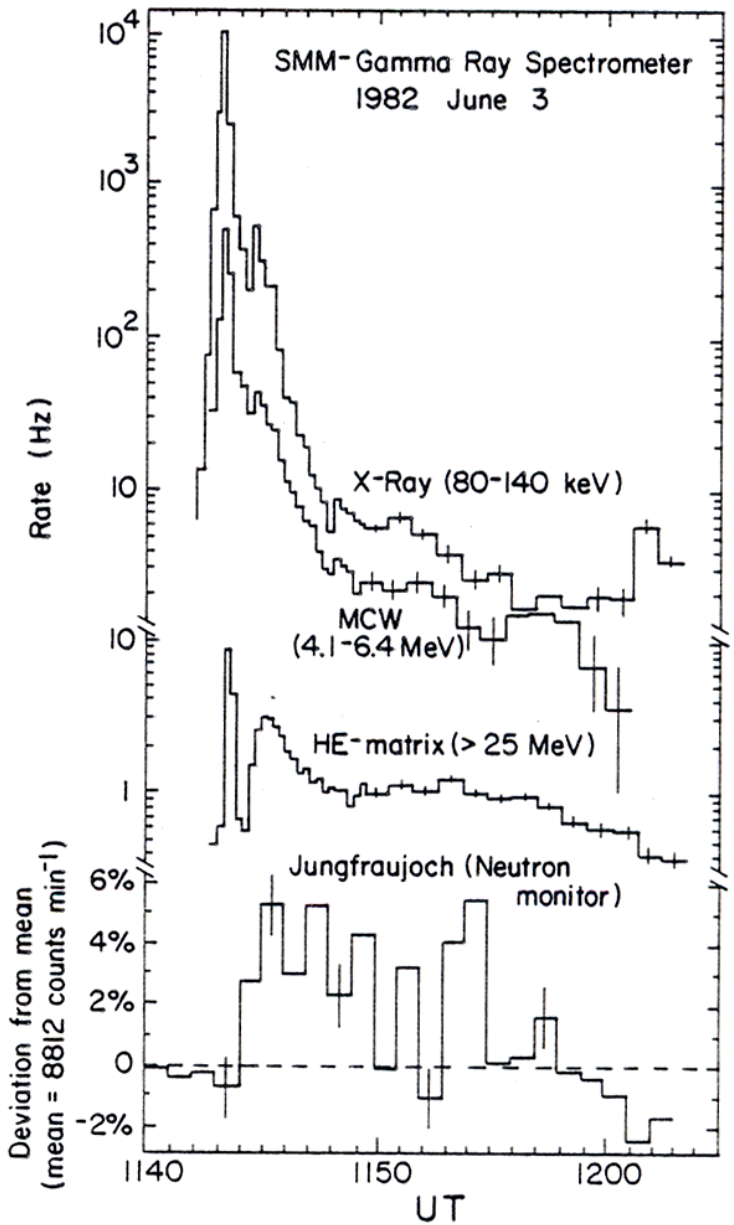


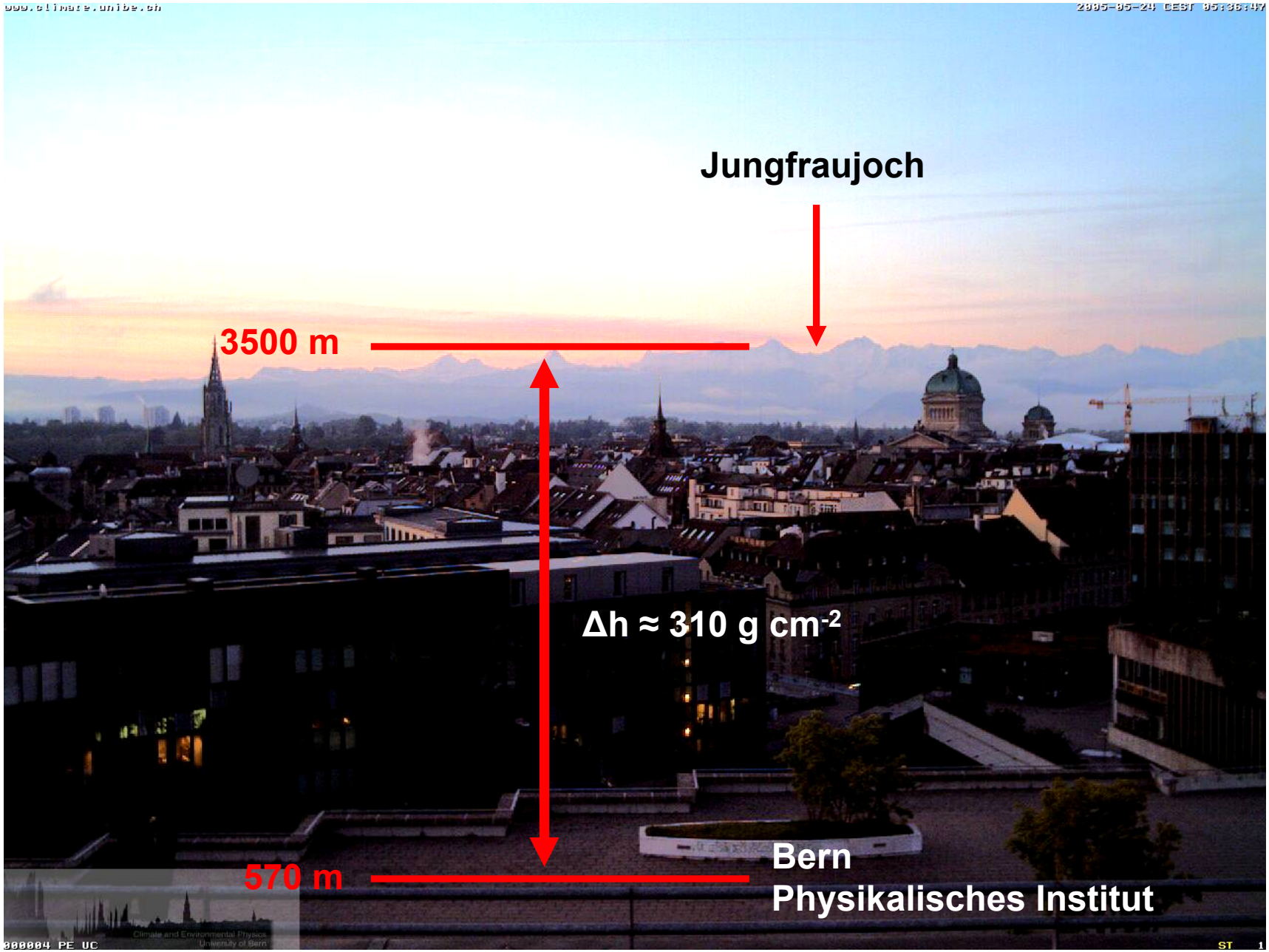
Data

http://cosray.unibe.ch/

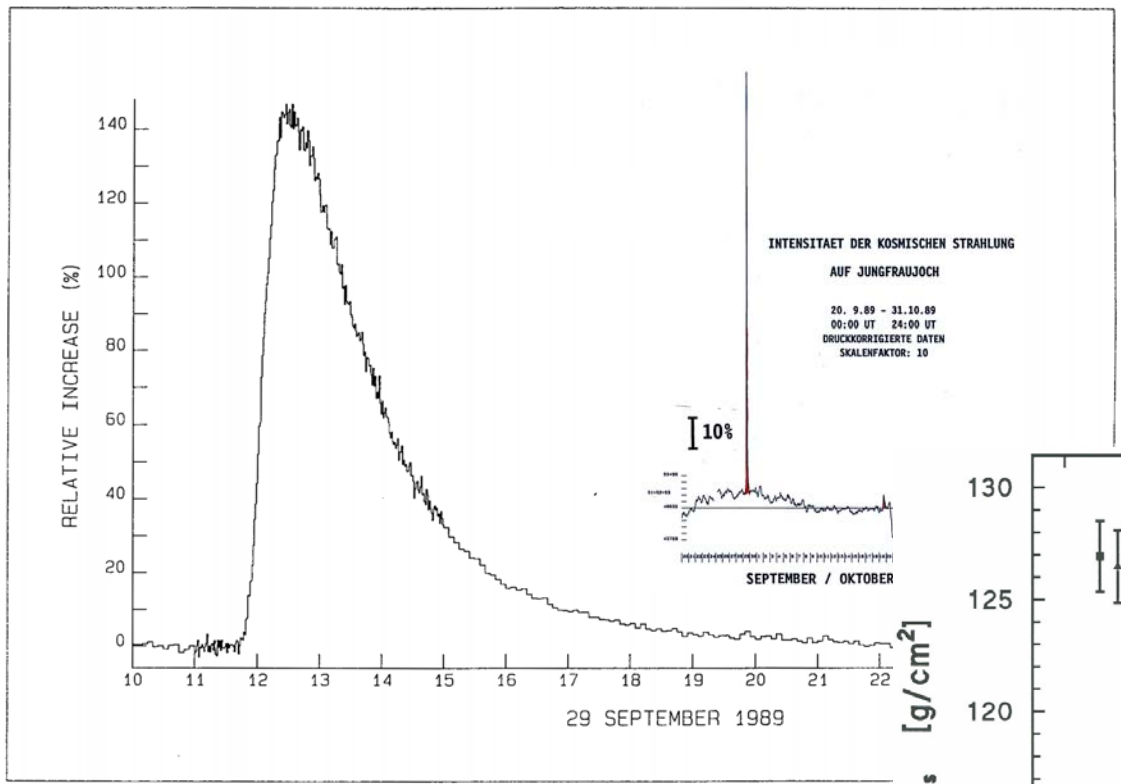


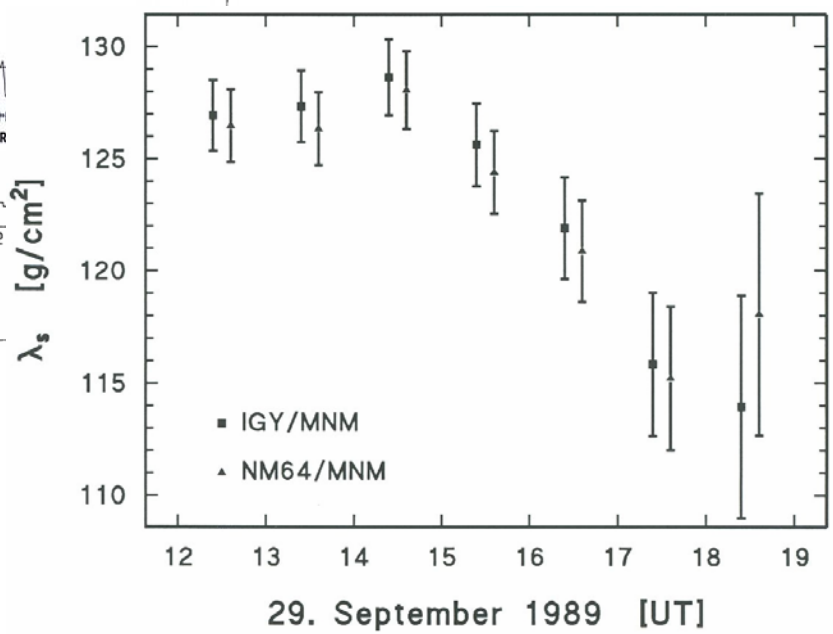
Solar neutron event on 3 June 1982



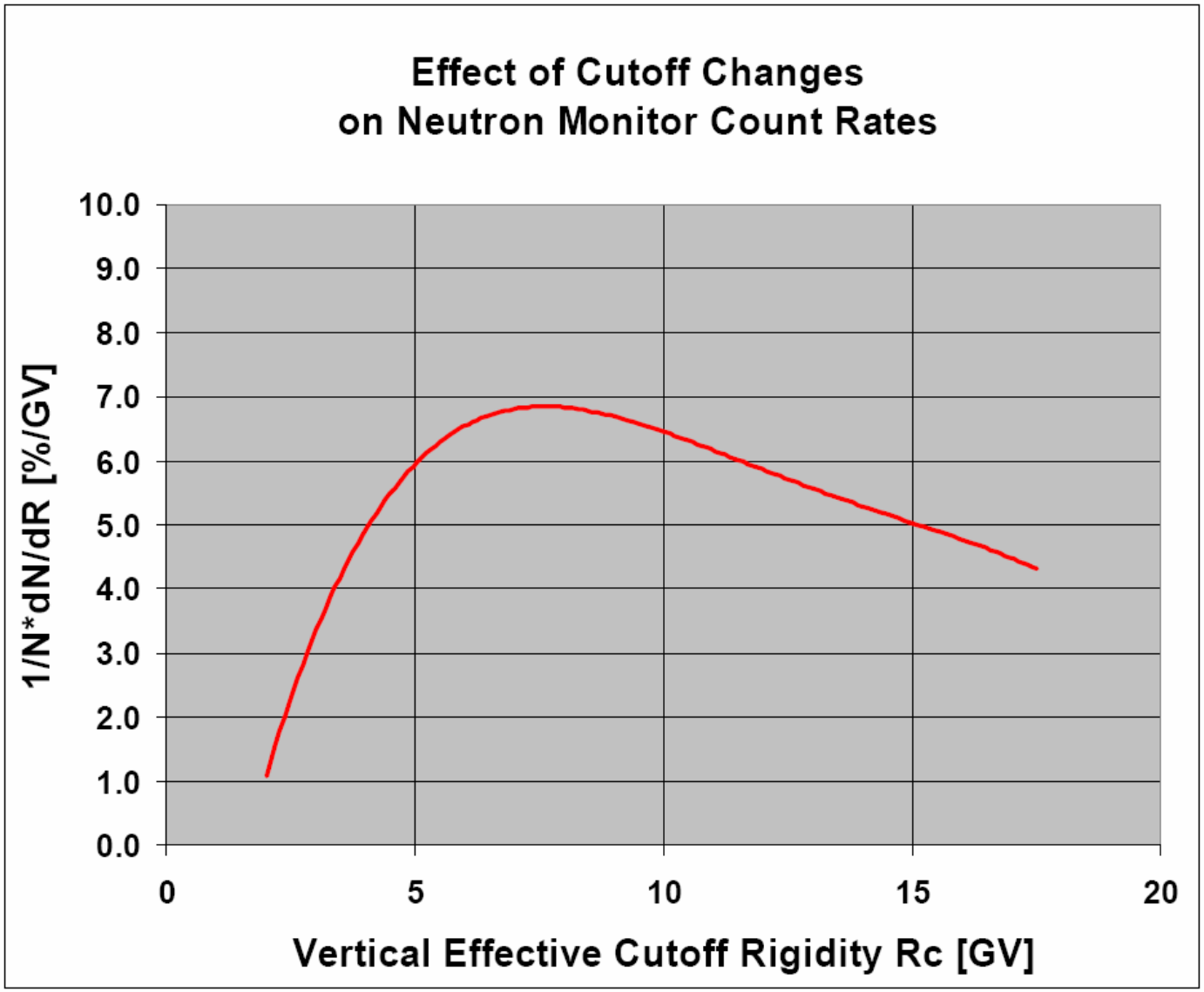

Jungfraujoch
3500 m
Δh ≈ 310 g cm-2
570 m
Bern
Physikalisches Institut

GLE on 29 September 1989

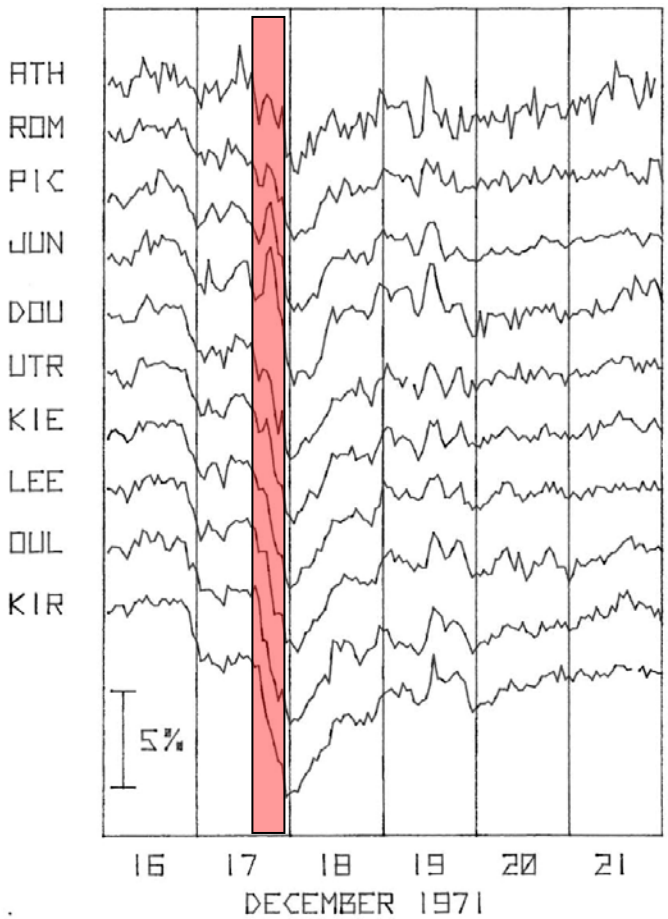


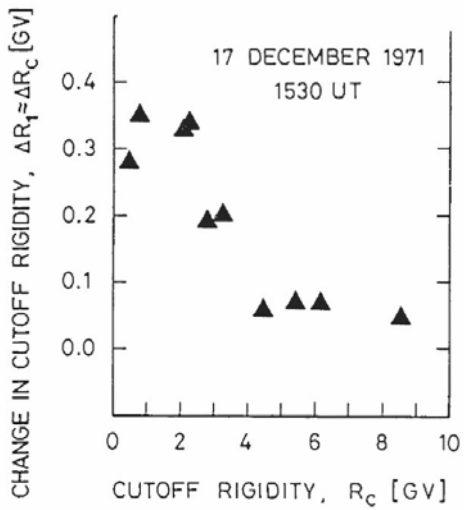


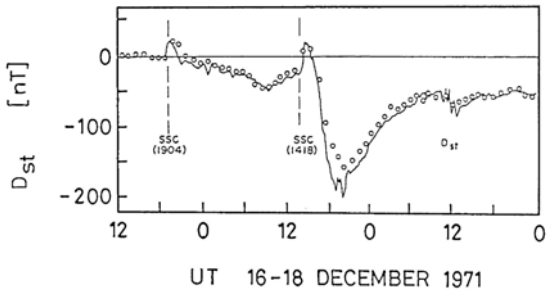
Geomagnetic Effects I

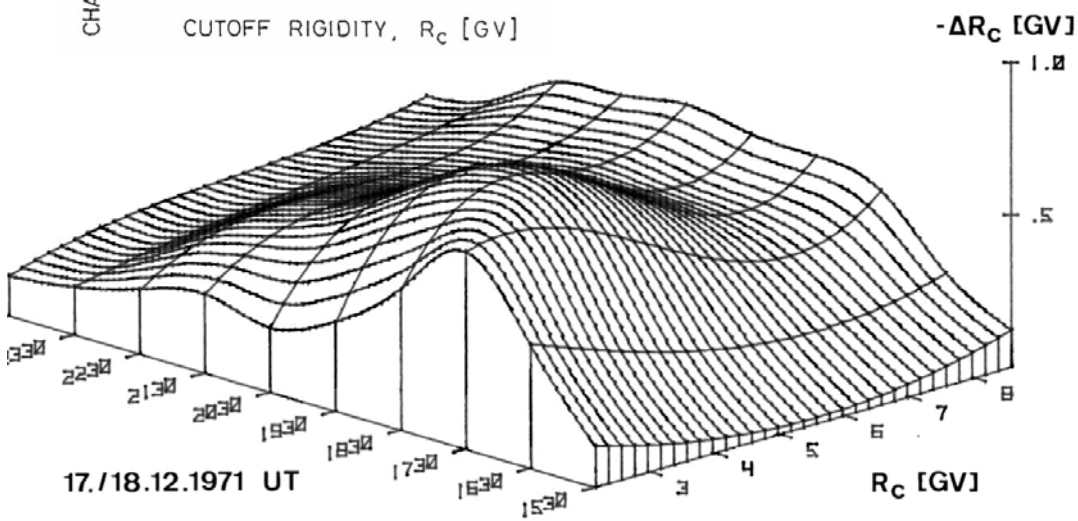


Geomagnetic Effects II









Swiss Neutron Monitors

- **complete the European NM distribution in latitude**
- **are well suited for the investigation of solar particle events and geomagnetic effects**
- **are expected to play a significant role in the worldwide network of NMs also in the future**