NenuFAR lightning KP plan

J.-M. Grießmeier, P. Zarka et al.
Radio emission from lightning

acceleration of charges $\Rightarrow$ electromagnetic radiation
Radio emission from lightning

[Fischer et al. 2011]

P = 10.67 hr

[NASA/JPL-Caltech/Space Science Institute]
NenuFAR pulsar KP interest

Scientific subjects

• Saturn emission timescales (fine structure)
• Saturn lightning spectrum
• Uranus? Neptune? Mars? Venus?
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[Evans et al. 1983]
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[Farrell et al., 2007]
Baptiste Cecconi, Georg Fischer, Jean-Mathias Grießmeier, Laurent Lamy (tbc), Jake Turner, Philippe Zarka
Observing strategy

- tracking observations of solar system planets
- dynamic spectra: 1 ms x 200 kHz
- 1 ON + N (~3) OFF beams
- 1 obs/week (month?)
- transient buffers?

1) TOO: triggered observations (optical observations)
2) monitoring observations (1 obs/week?)