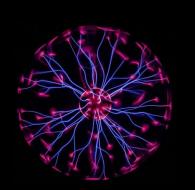


## What is a plasma?

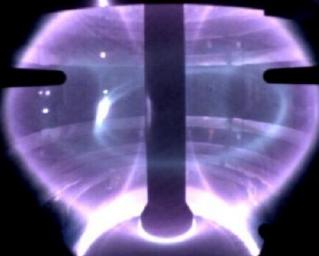








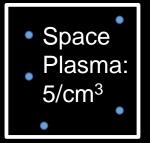






#### Space Plasma at the Comet







The measurements are compared with a hypothetical model assuming a slightly magnetised surface. The model also includes the strength of and variation in the interplanetary magnetic field near the comet nucleus.

\*\*Descent\*\*

| Descent\*\*
| Descent

Protons and interplanetary magnetic field

















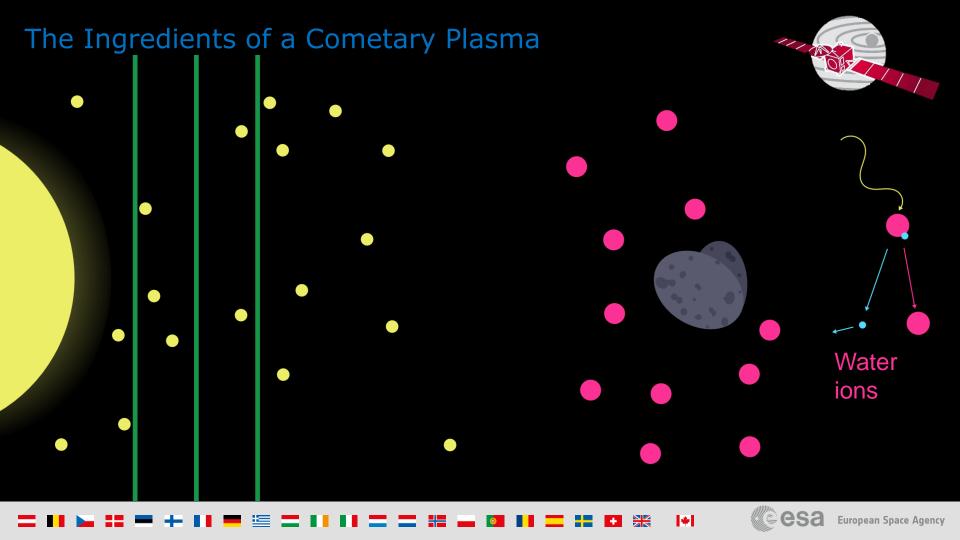


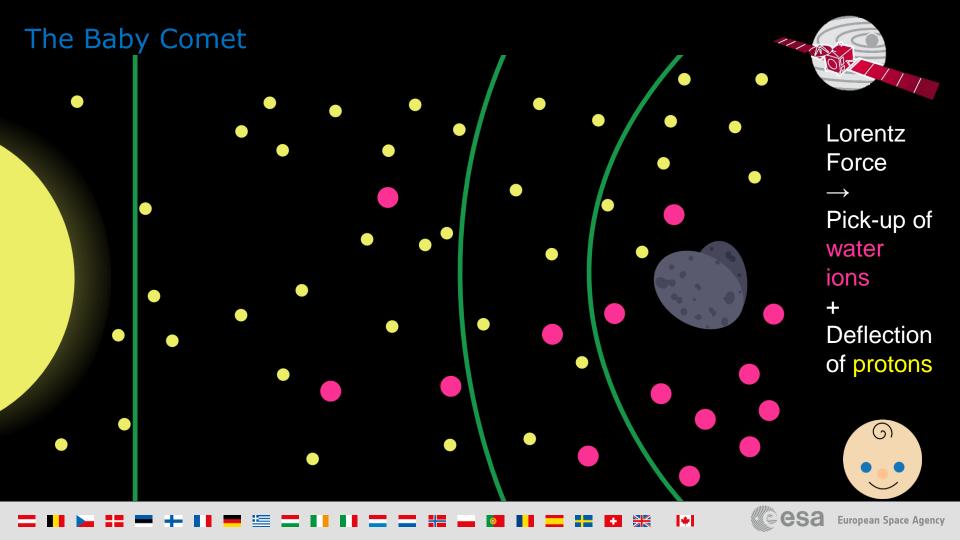




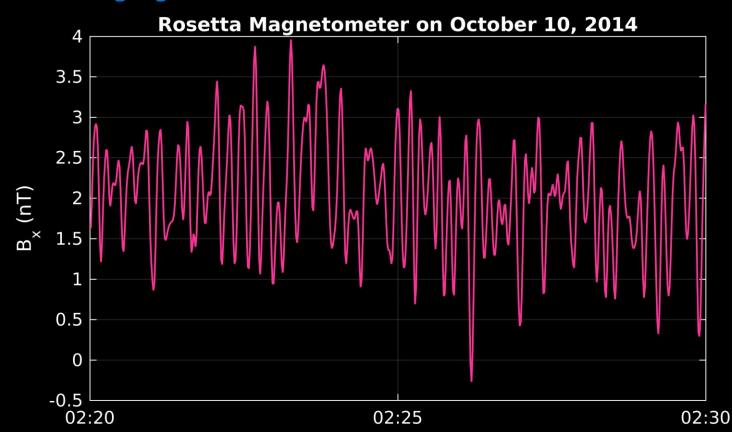








# The Singing Comet









# The Asymmetric Plasma Tail

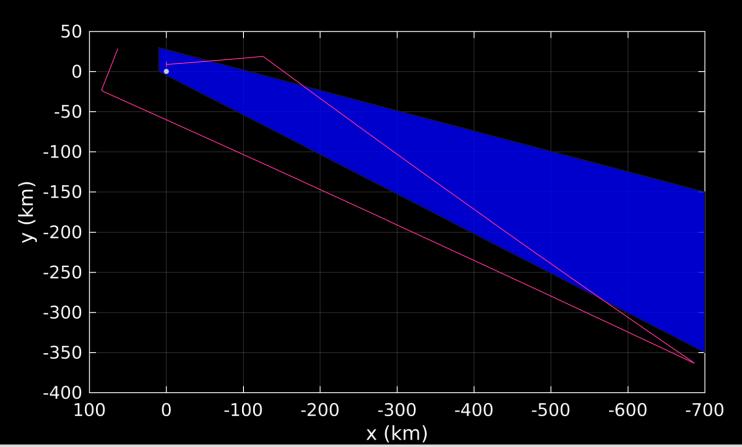








#### The Asymmetric Plasma Tail

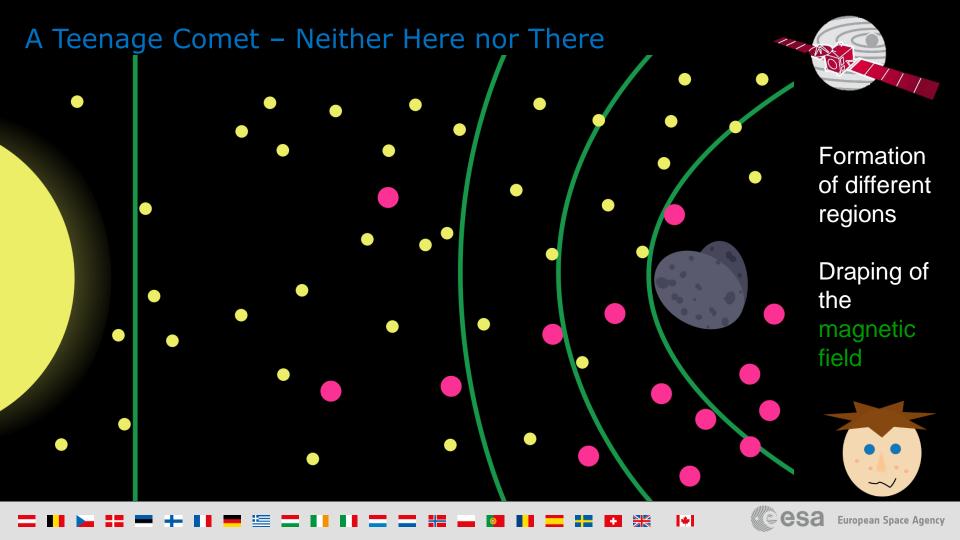




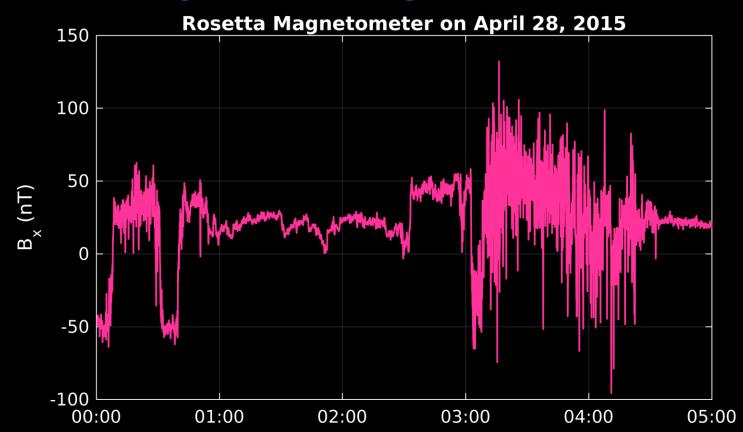
First detection of this structure by RPC







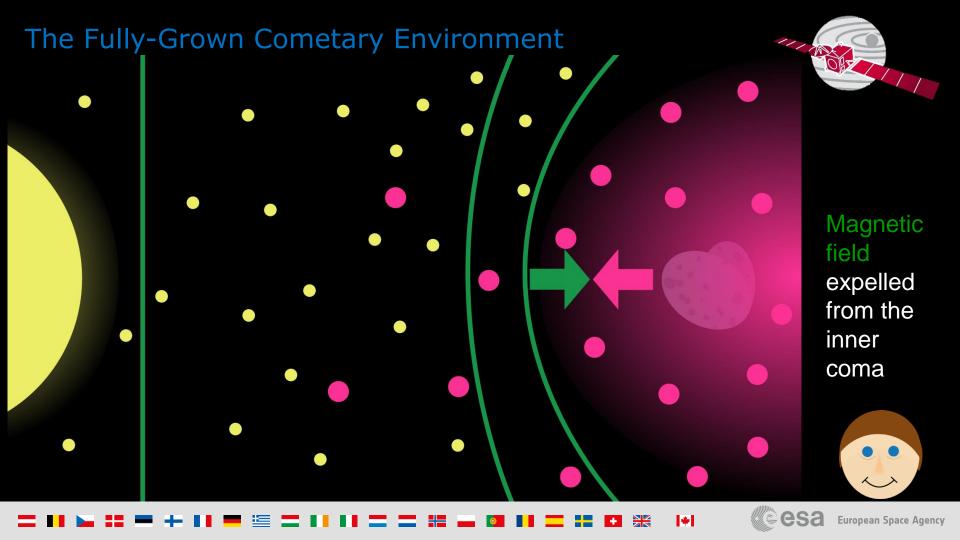
## Different Regions are Forming





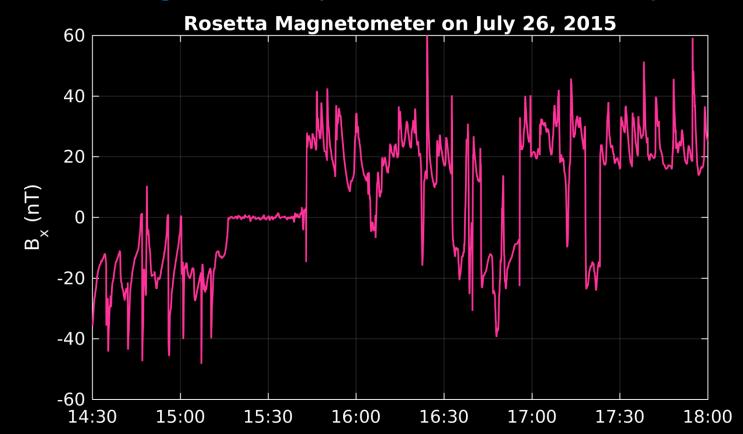






### The Diamagnetic Cavity – A Hole in Time and Space



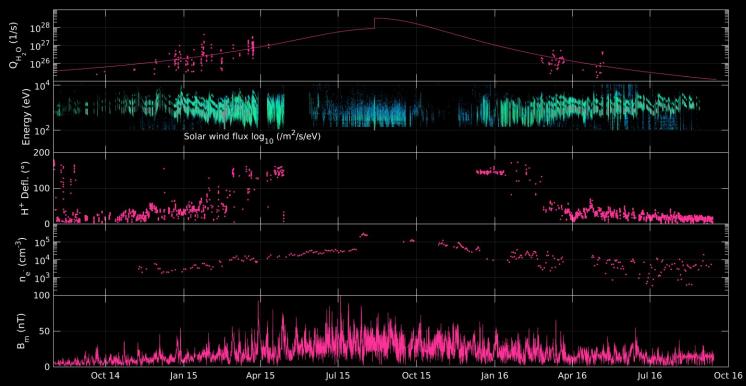






#### A Comet's Life







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#### Acknowledgements and References



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- Richter et al., Ann. Geo. 2015
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- Meier et al., Ann. Geo. 2016
- Mandt et al., MNRAS 2016
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- Edberg et al., MNRAS 2016
- Simon Wedlund et al., A

- The RPC and ROMAP Team
- Hans Nilsson, Etienne Behar, Cyril Simon Wedlund, Pierre Henri, Jerome More
- Picture credits: ESA/NASA, CCFE (MAST), ICPM5, NOAA, Wikipedia, Chip



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