

LOFAR configuration Update

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LOFAR re-scoped configuration

- LOFAR core
 - Discussion started during calibration workshop
 - Finalised January 2008
- LOFAR NL remote
 - Two proposals: Survey and EoR
 - Looked into at the moment: Connection of very remote stations
- E-LOFAR
 - Mostly dependent on international partners

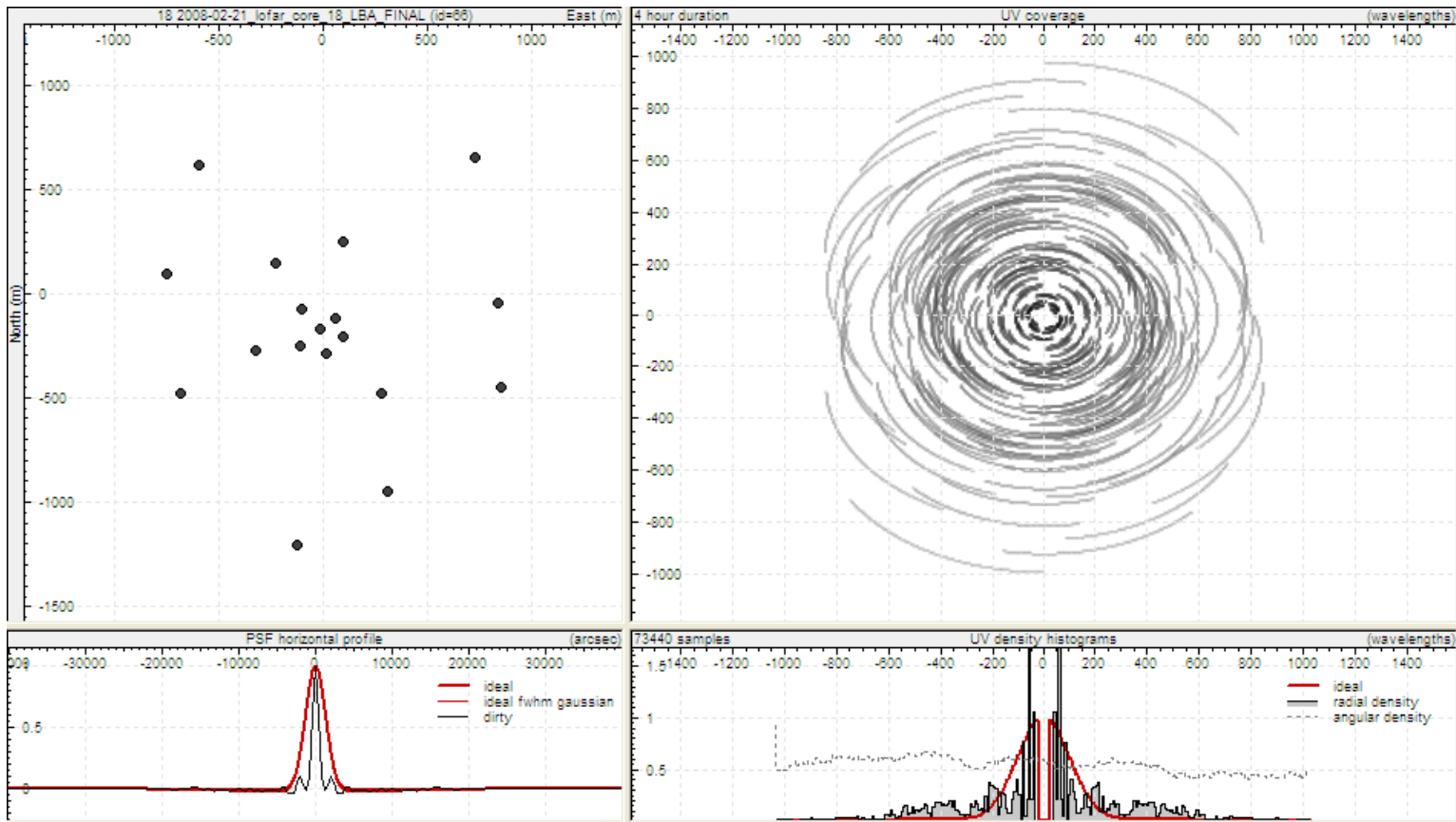
LOFAR core

- Best 18 & 24
- In total 33 station locations prepared
- Optimised for UV-coverage
- Core superstation area
- Station fields will be parallel to each other but not on the same plane
- A station field: 2x24 HBA tiles & 96 LBAs
- Station fields three different orientation (HBA station baseline)

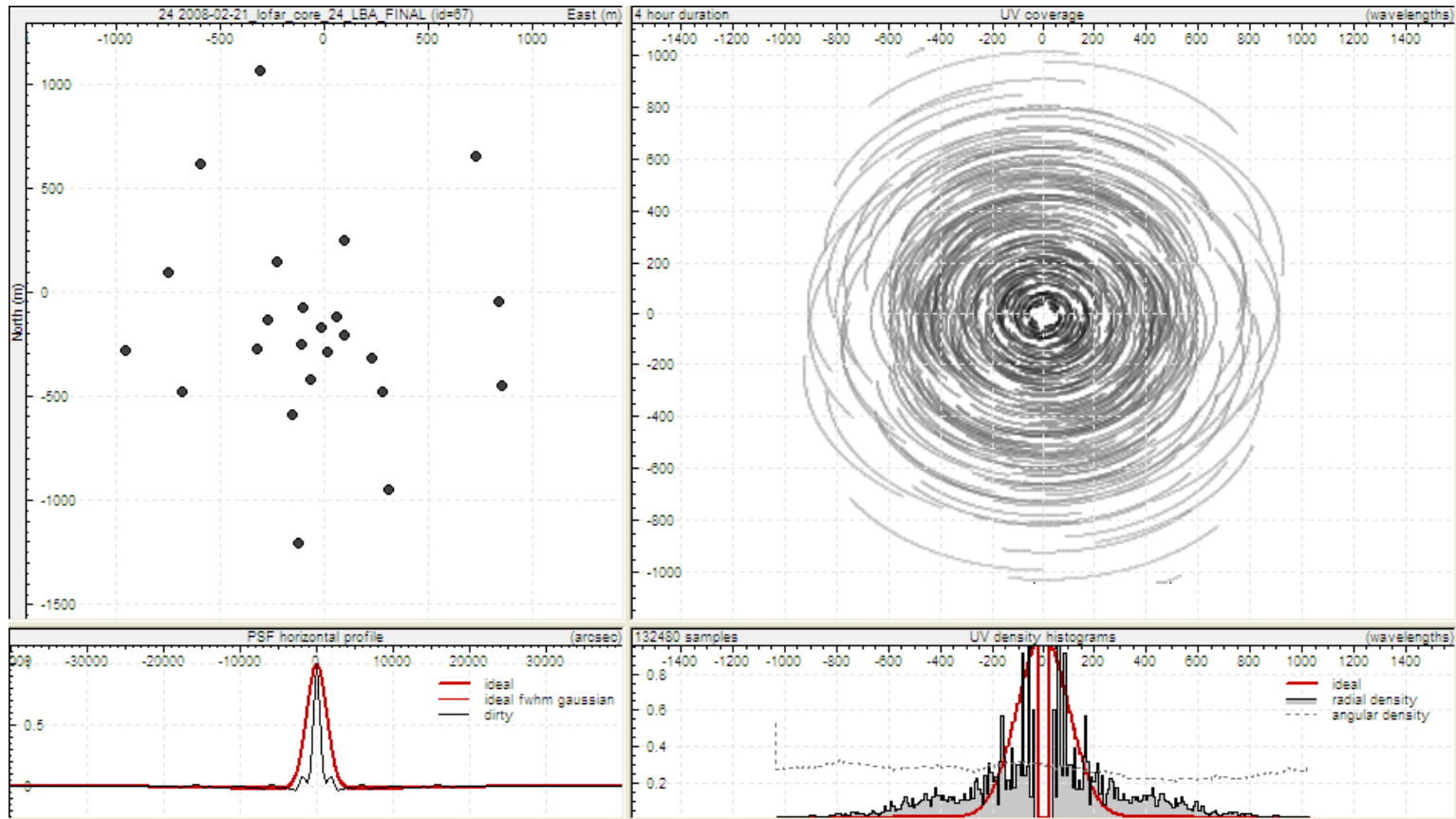
LOFAR core - Final Configuration



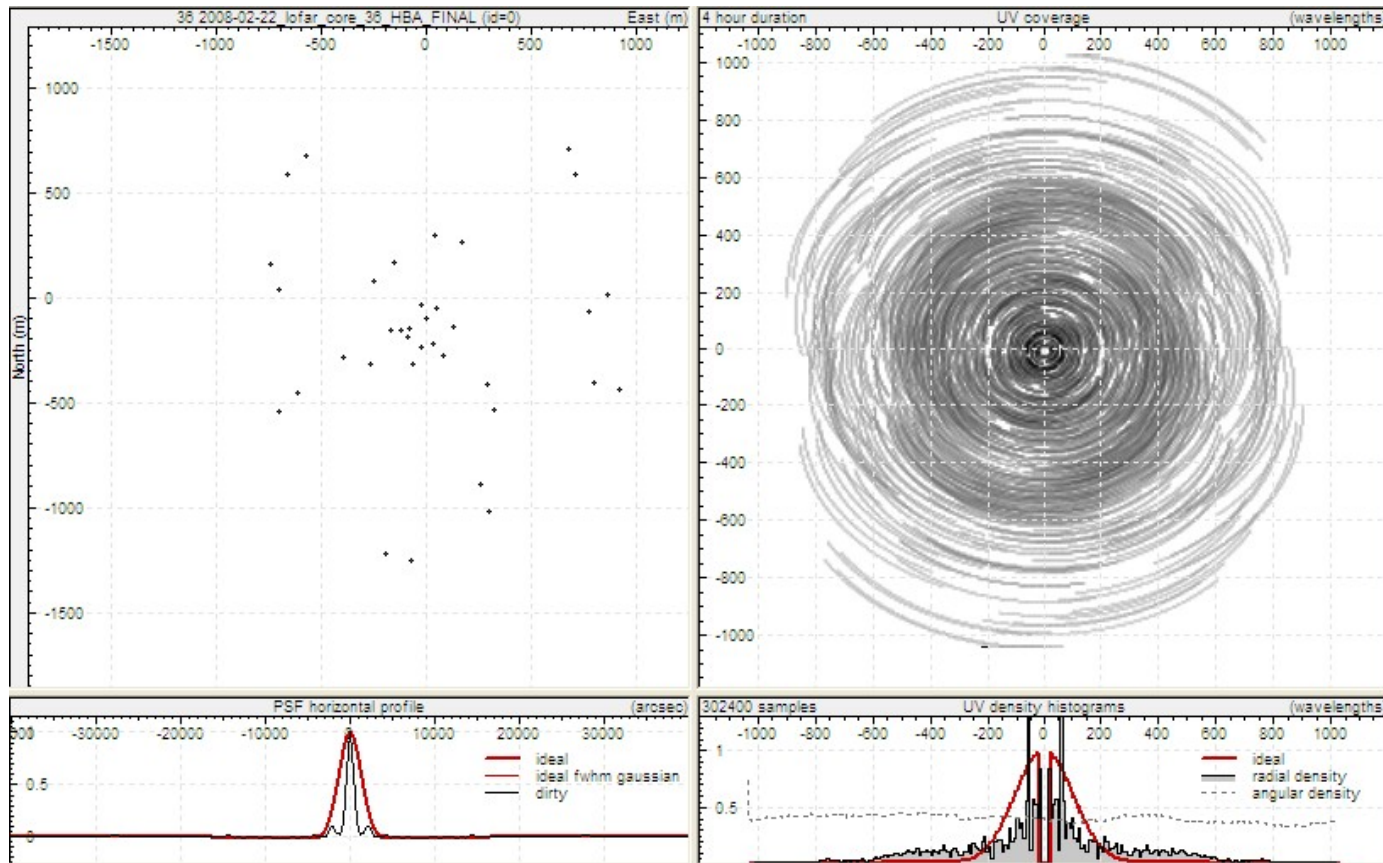
LOFAR core - UV simulation (18 LBA)



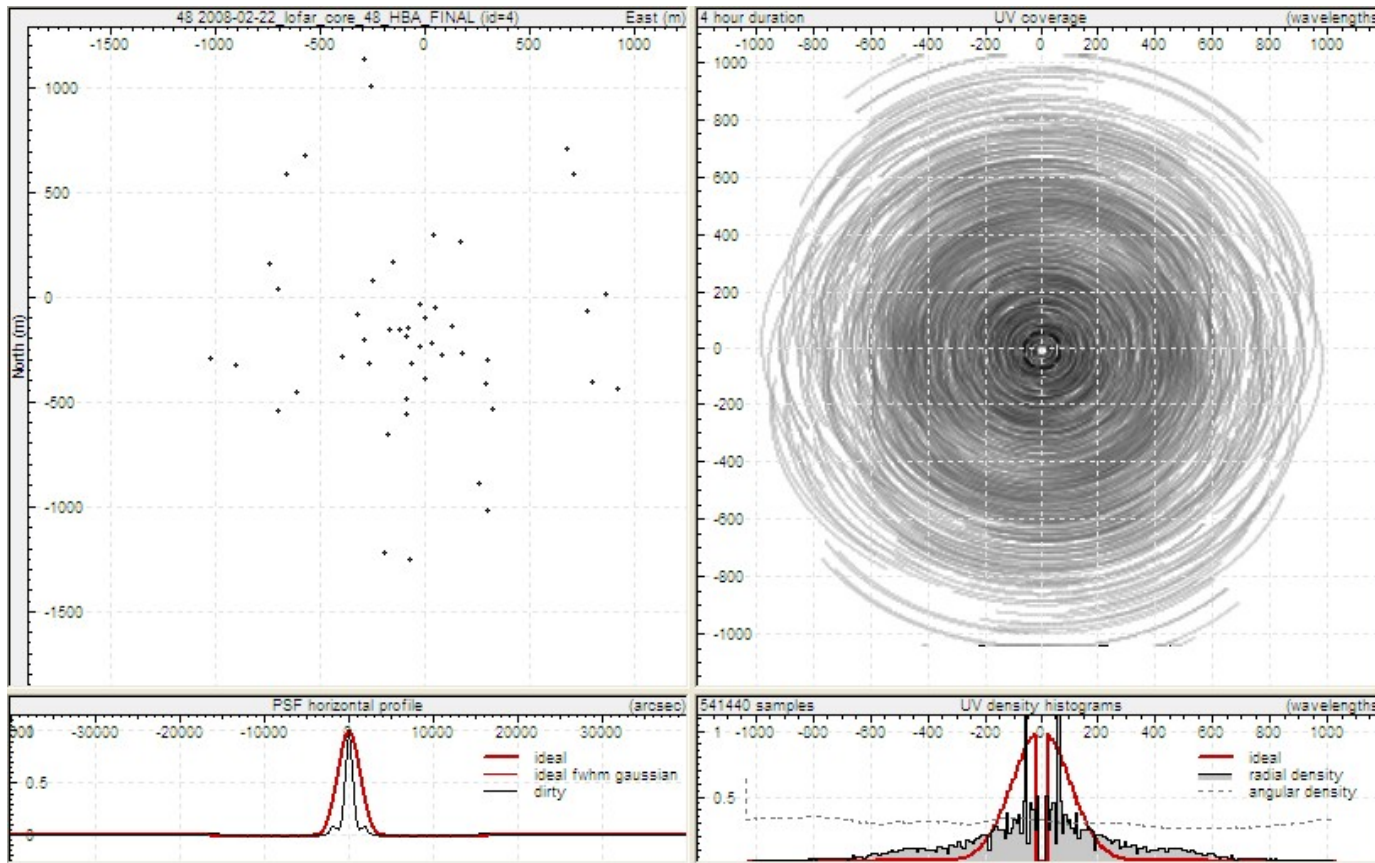
LOFAR core - UV simulation (24 LBA)



LOFAR core - UV simulation (36 HBA)



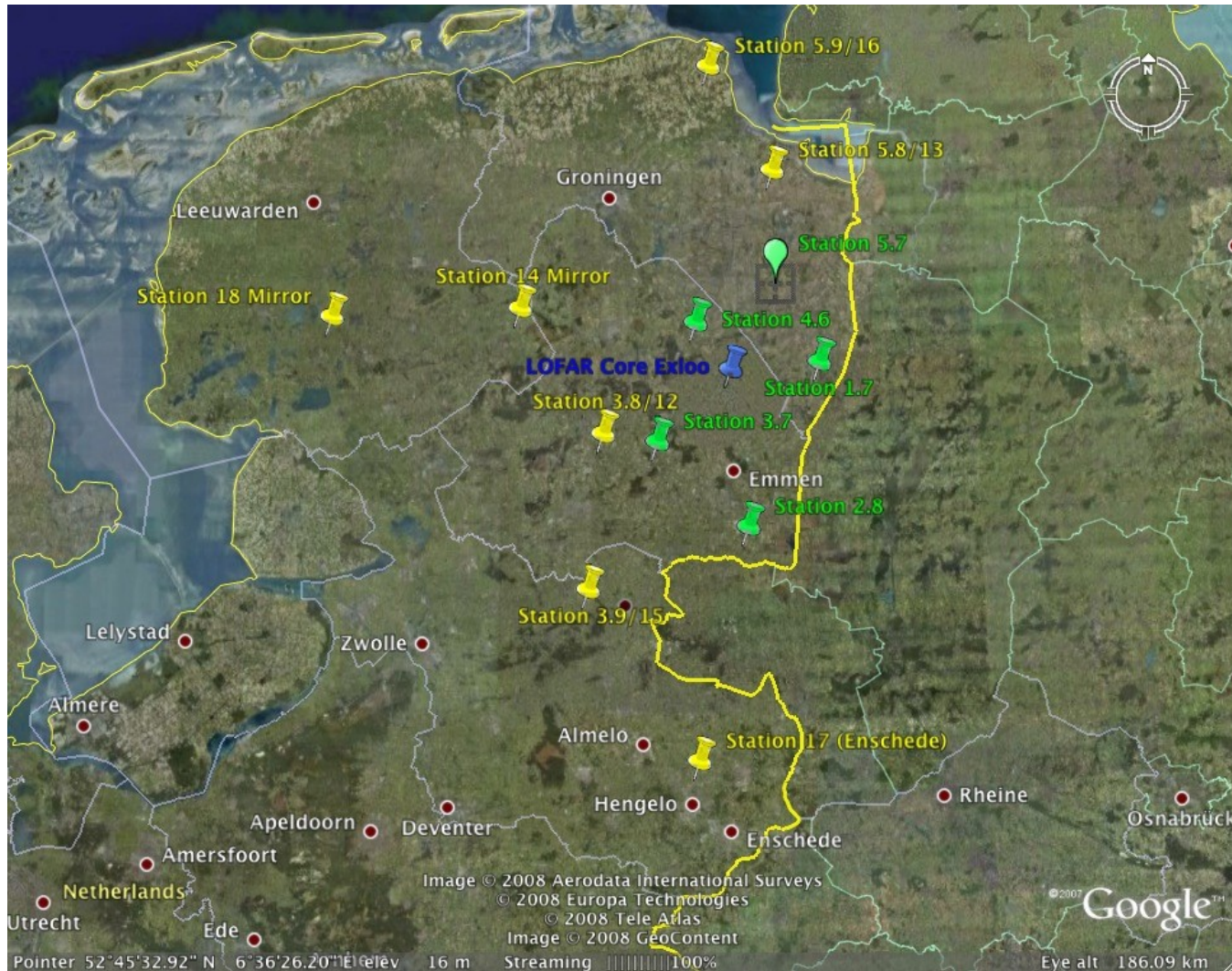
LOFAR core - UV simulation (48 HBA)



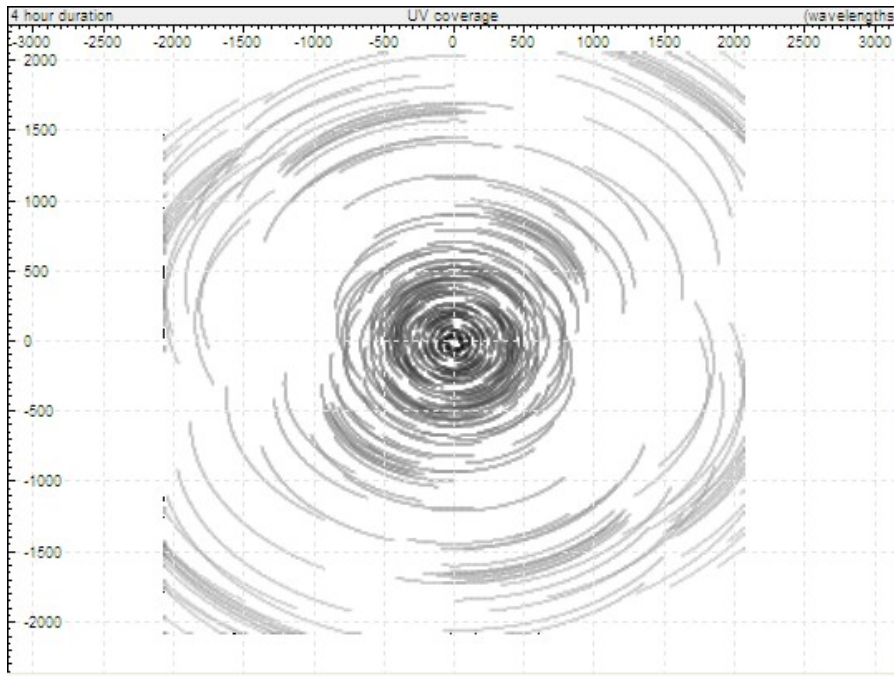
LOFAR remote NL

- Best 18 & 25 - concentrating on best 18 for the moment
- Employing 100km baselines
- Two proposals: Survey & EoR
 - Differ by 4 stations
 - EoR request station 2km to the east of Exloo

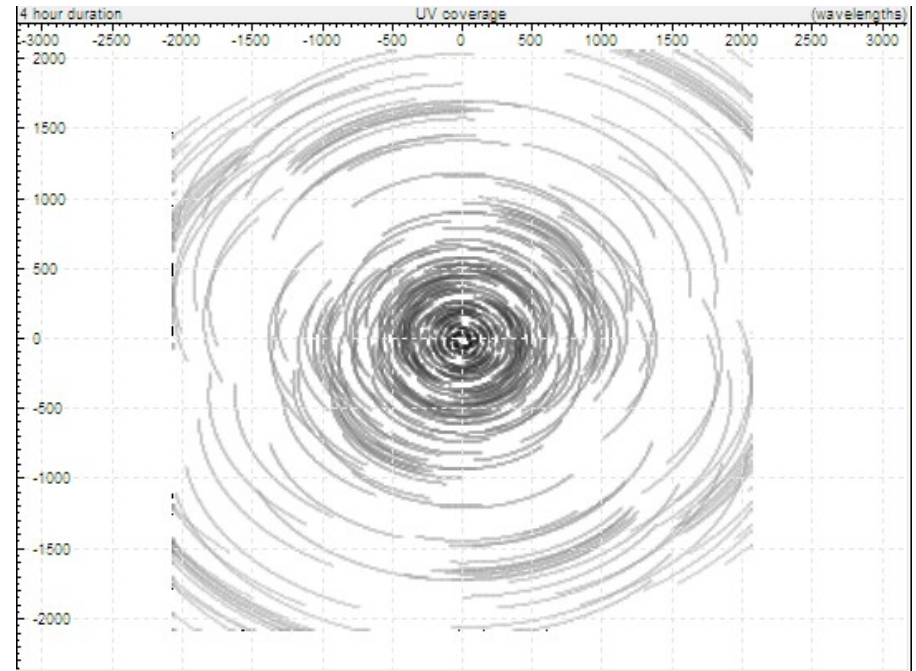
LOFAR remote NL (I)



LOFAR remote NL (II)

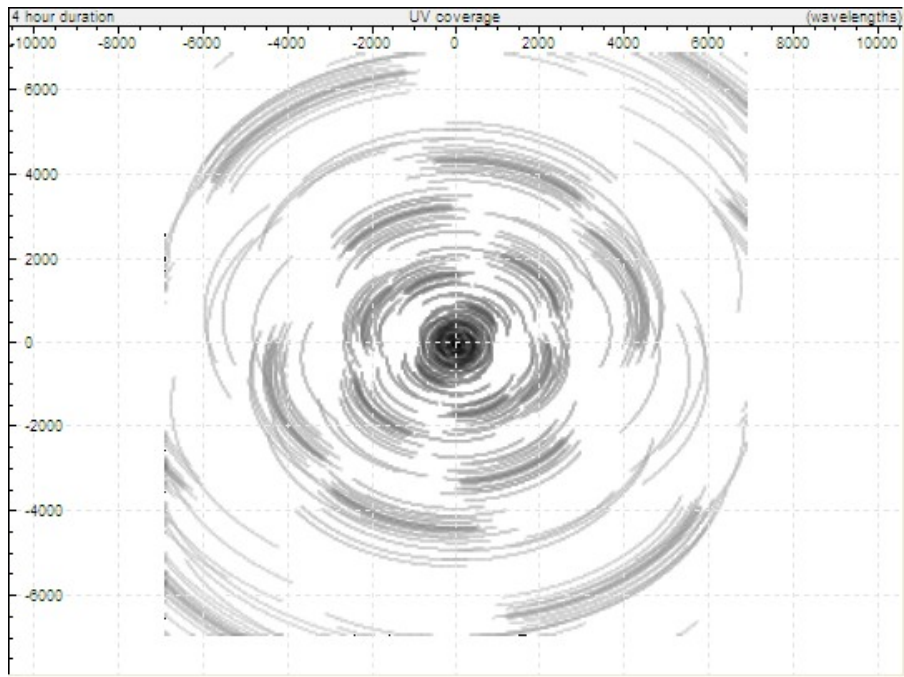


Survey proposal

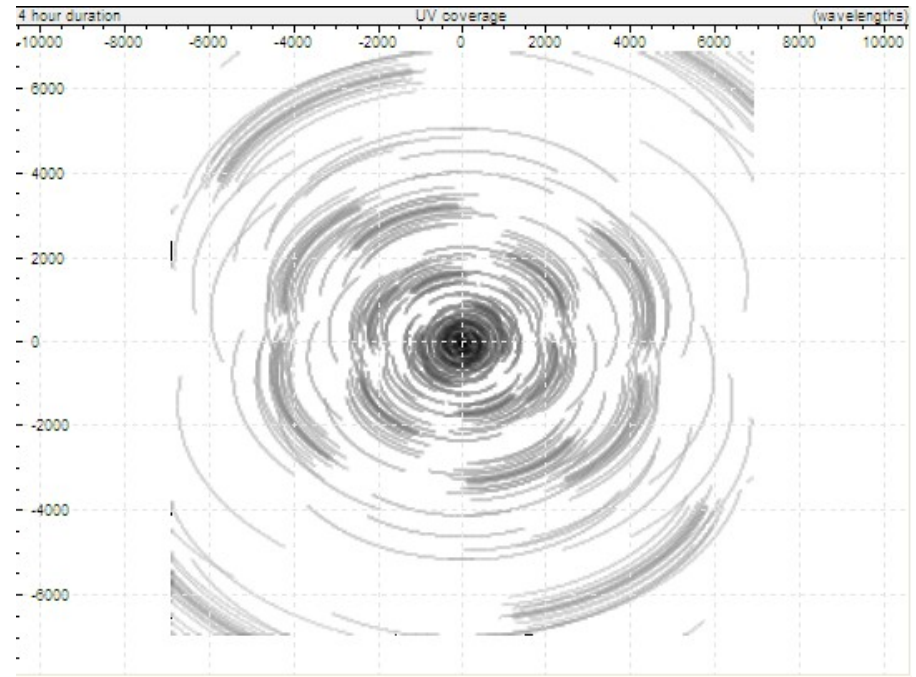


EoR proposal

LOFAR remote NL (III)

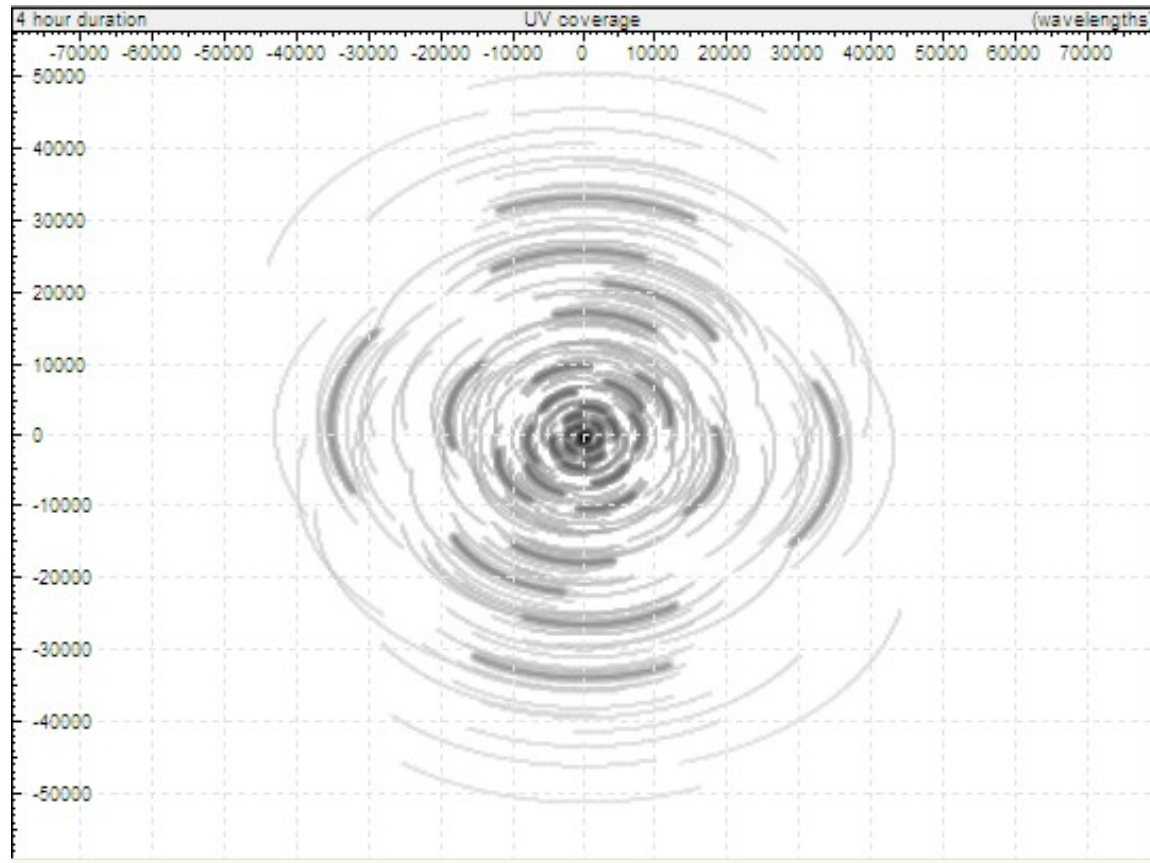


Survey proposal

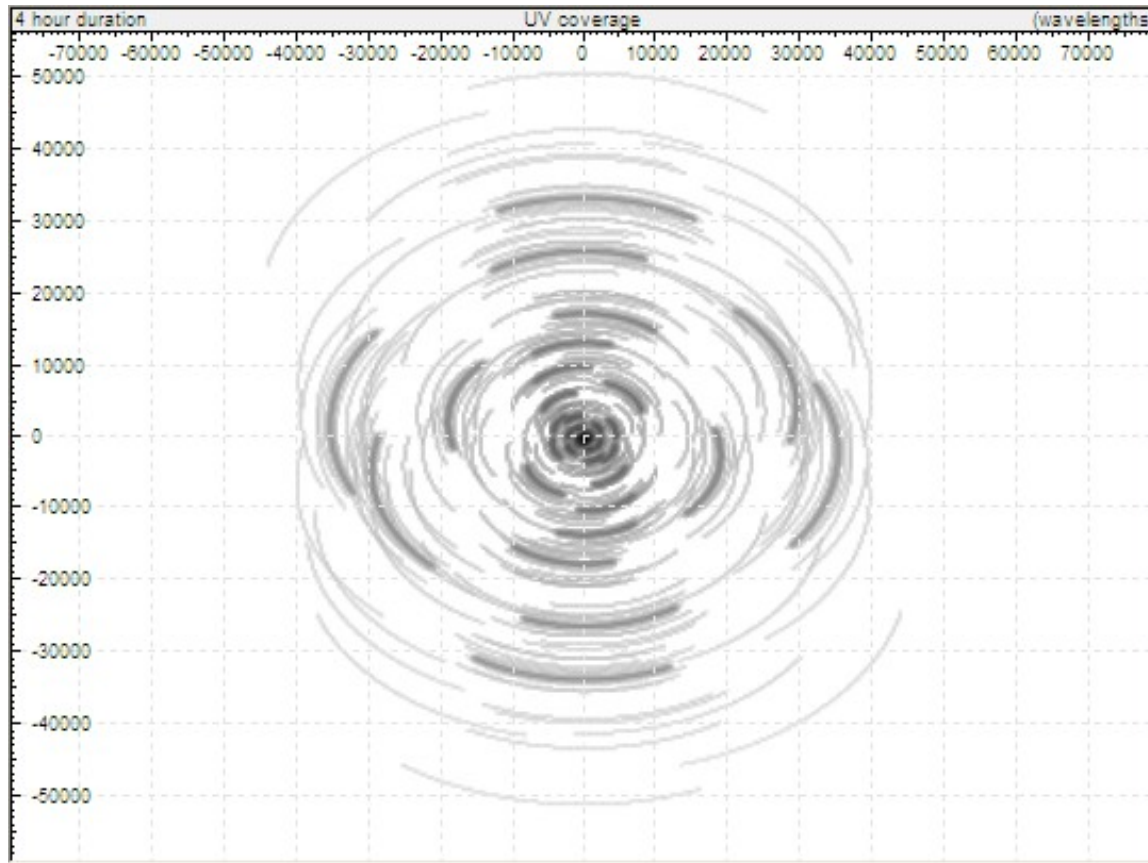


EoR proposal

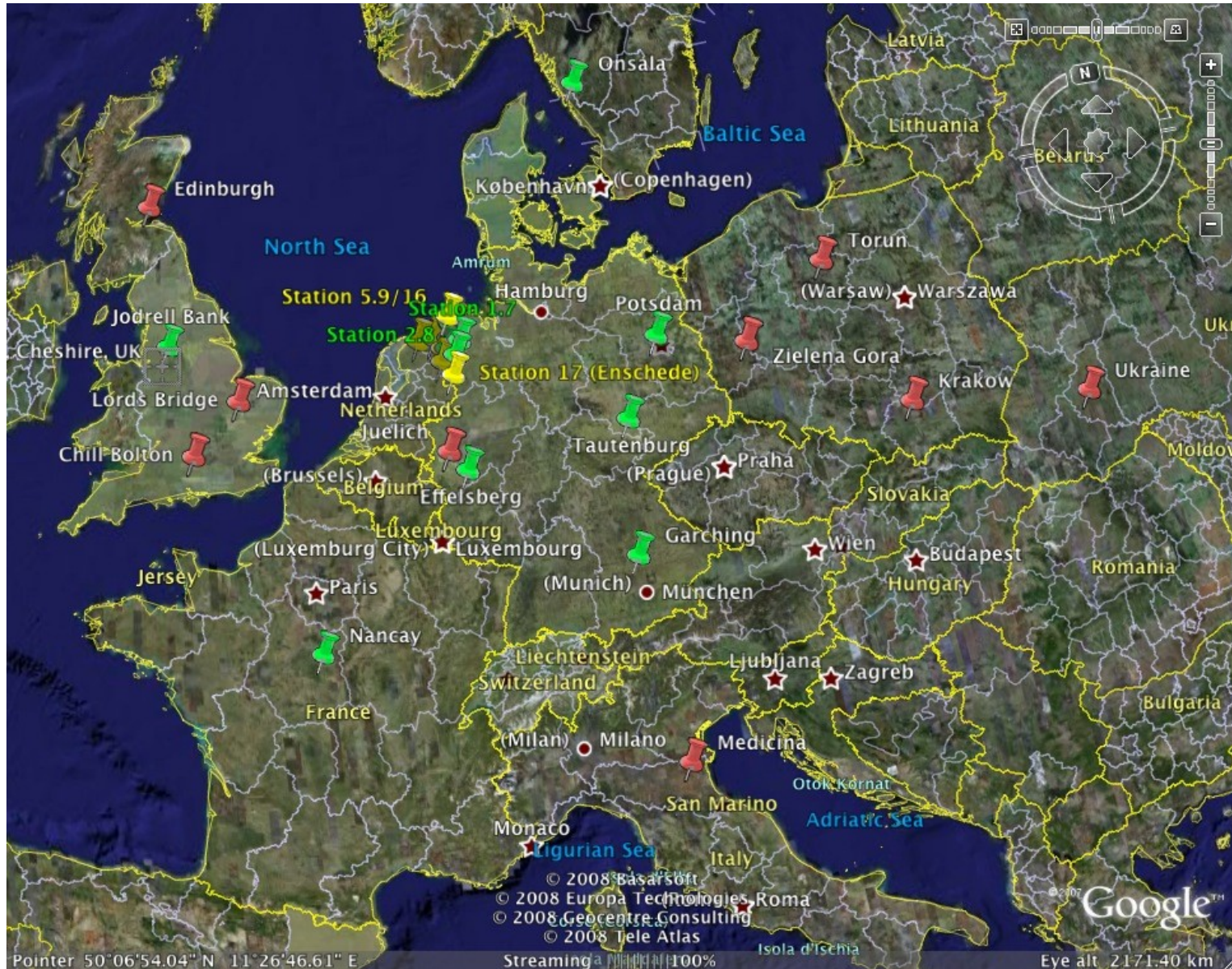
LOFAR configuration (survey proposal)



LOFAR configuration (EoR proposal)



E-LOFAR



E-LOFAR in the uv-plane

