

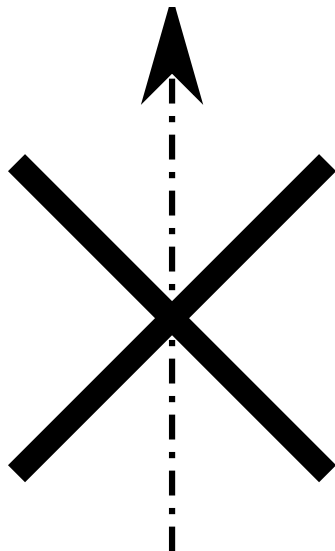
LOFAR reference plane and centre position

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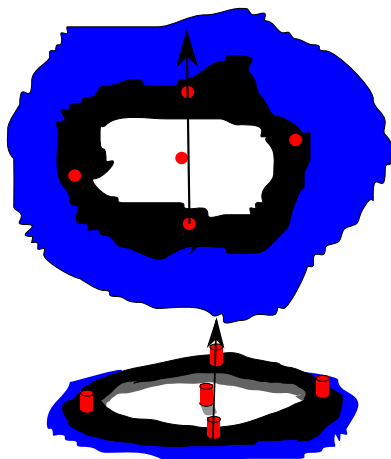
LOFAR status meeting 20080827

The reference plane and direction



- Alignment of dipoles requires reference direction
- Ref dir: approximately north-south at centre of superterp
- All core stations plus some near remote stations are parallel
- Ref plane: horizontal plane at superterp

Establishing the reference



- Place centre marker and measure position (DGPS)
- Place 4 ref-plane markers using *total station*
- Measure difference positions between ref-plane markers and centre marker (DGPS)
- Coordinates in ETRS89
- Conversion to ITRF of whatever epoch straightforward and done by us