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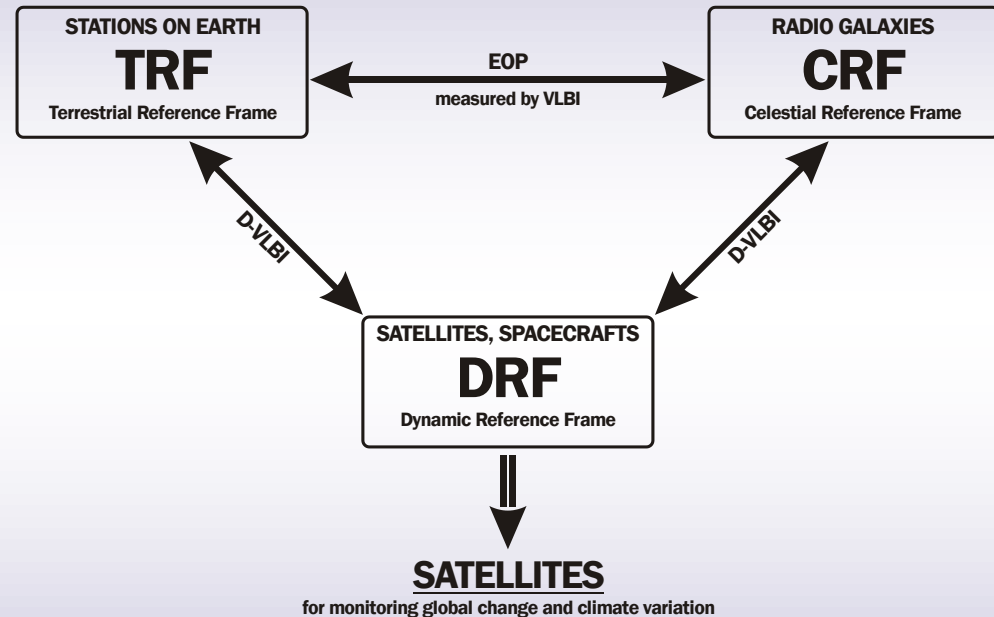
Satellite tracking using VieVS

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VieVS User Workshop
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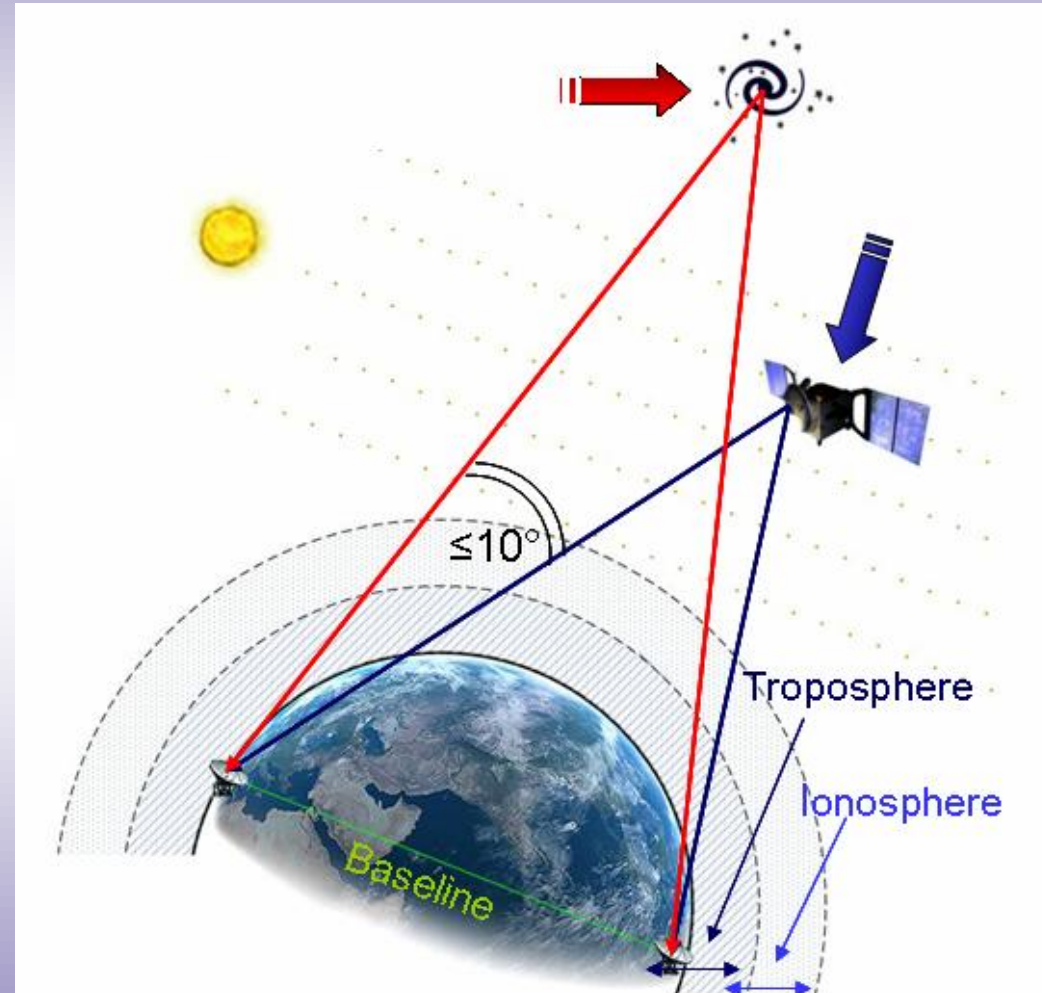
- 📌 Interest in D-VLBI
- 📌 New possibilities
 - 📌 Connect dynamic & kinematic Reference Frame
 - 📌 Observations of Satellites → frame ties in space
- 📌 (my topic 😊)



2 antennas
1 spacecraft
1 Quasar

Cancellation of many error sources

-  NAVIGATION (routinely done by ESA, NASA, JAXA, chin. Space Org.,...)
-  SOURCE IMAGING
-  REFERENCE FRAMES (Ephemerides)



How?

- ▶ test data from NAOJ Mizusawa (SELENE)

- ▶ adapt VieVS

 - ▶ simple run (~2h)

 - ▶ delay model for sources @ finite distance

 - ▶ orbit model

 - ▶ estimation

- ▶ look for applications

 - ▶ e.g. observing GNSS satellites (Vincenza)

- ▶ simulations

 - ▶ observing strategy (separation angle, network, scan length, ...)