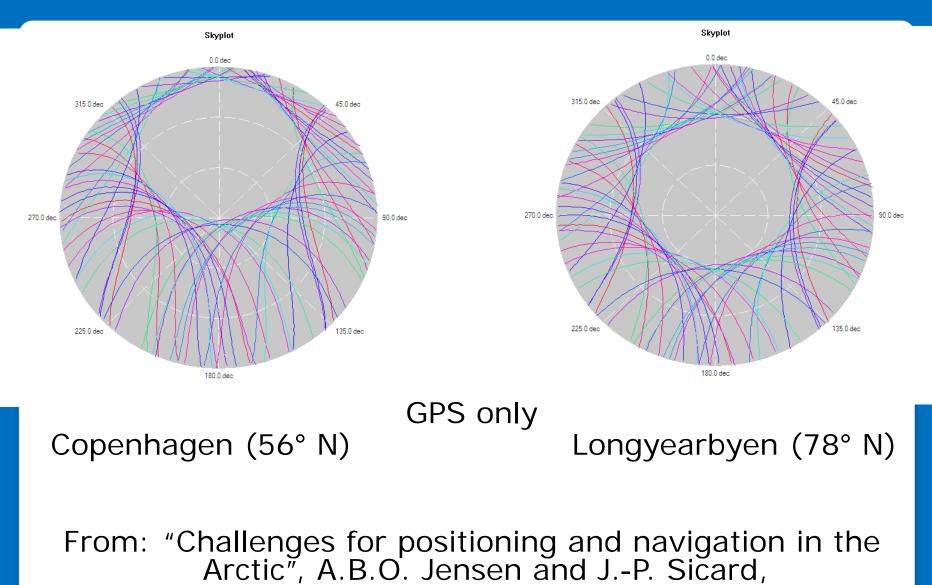
## Some Challenges for GNSS Users at High Latitudes / in the Nordic Countries

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## **Challenges at high latitudes**

- Example: Land surveying with GNSS in Greenland
  - No PPP services available (within reasonable price)
  - No network based real time kinematic (RTK) service available, users must establish own reference stations
  - Satellite geometry some GNSS receivers (GPS only) fail when too many satellites are in view
  - Ionospheric variability sometimes affect signal tracking, not only in the auroral zone



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