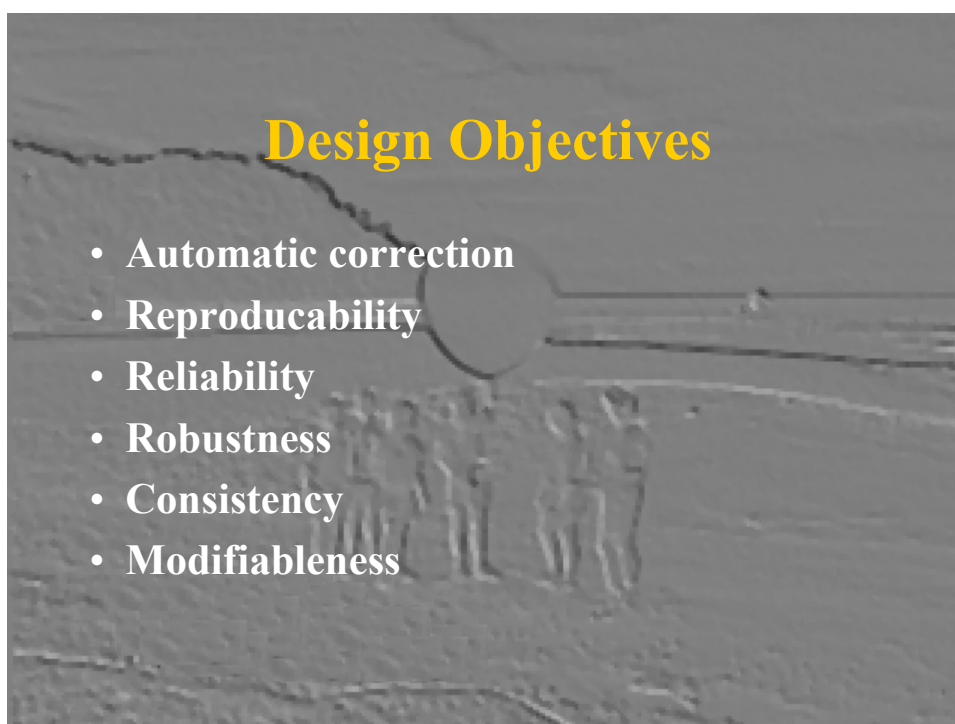
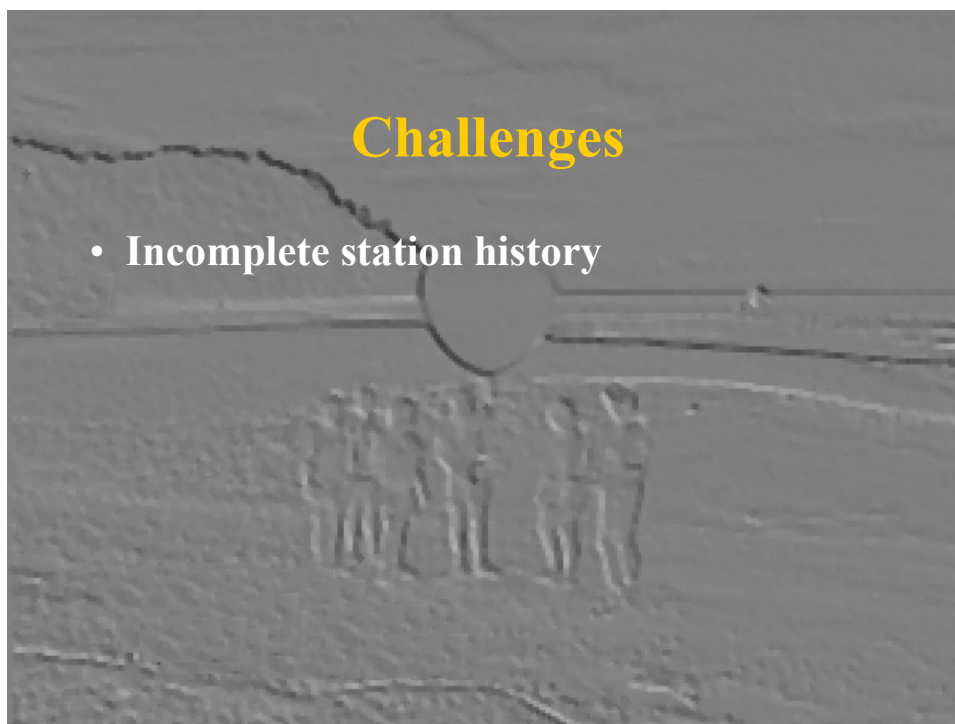
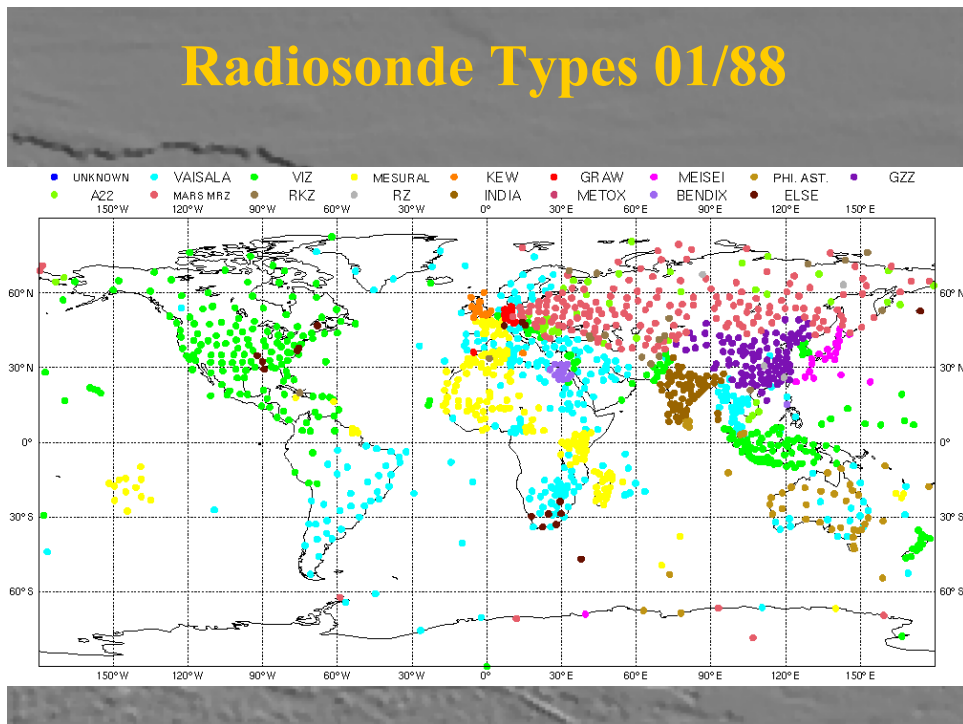


# Radiosonde temperature bias-correction in ERA-40

Kazutoshi Onogi and Niko Sokka

*ECMWF*

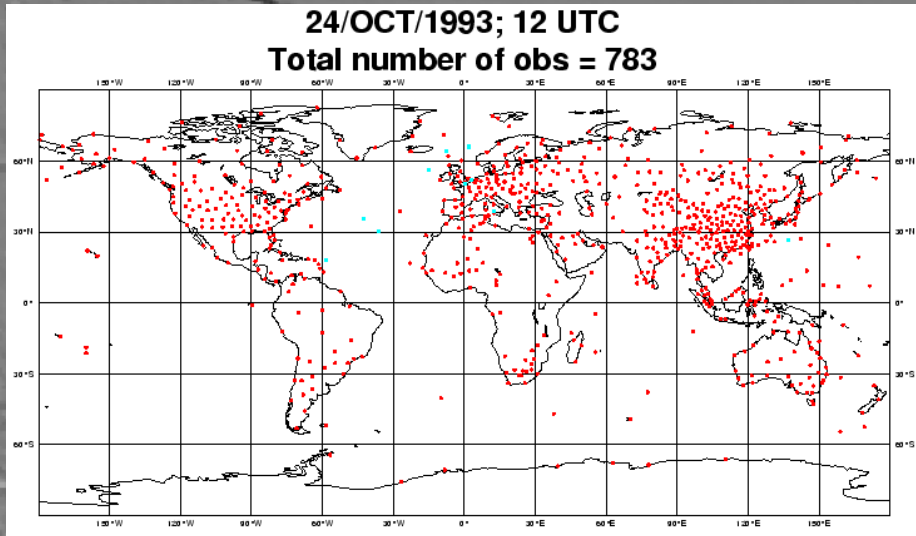




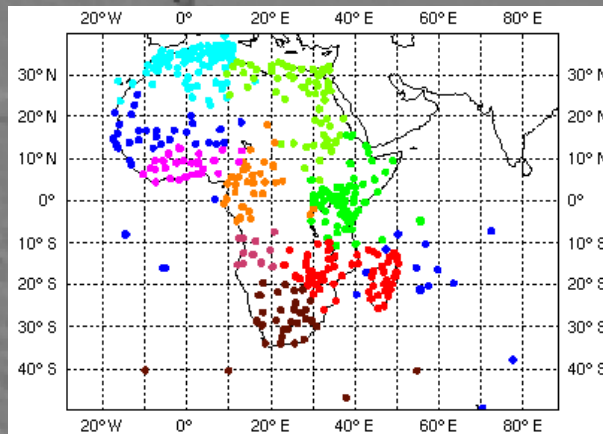
## Challenges

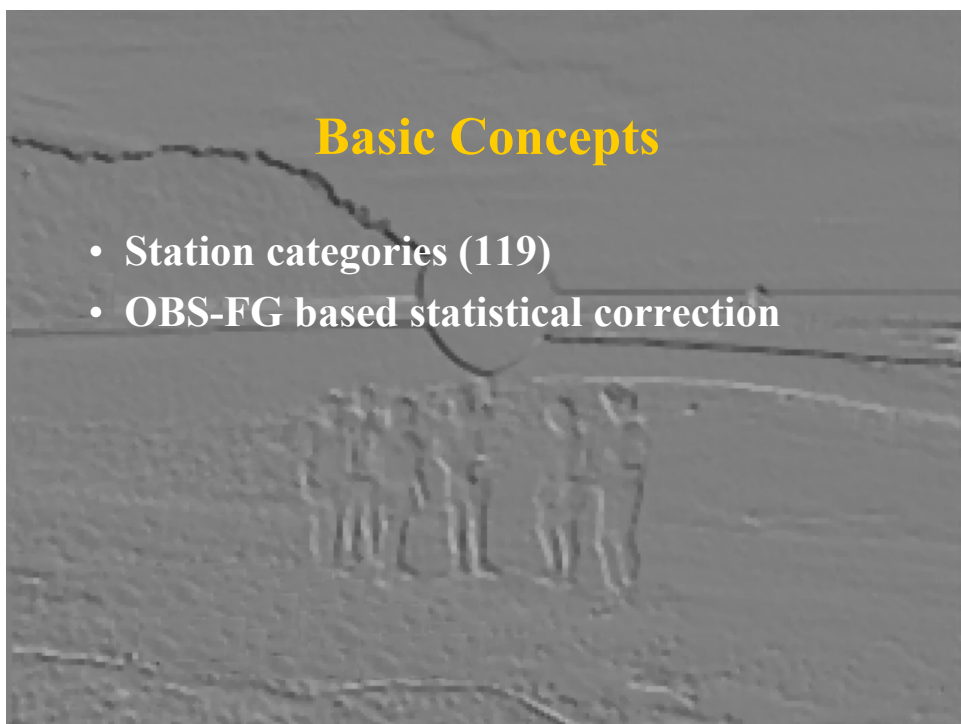
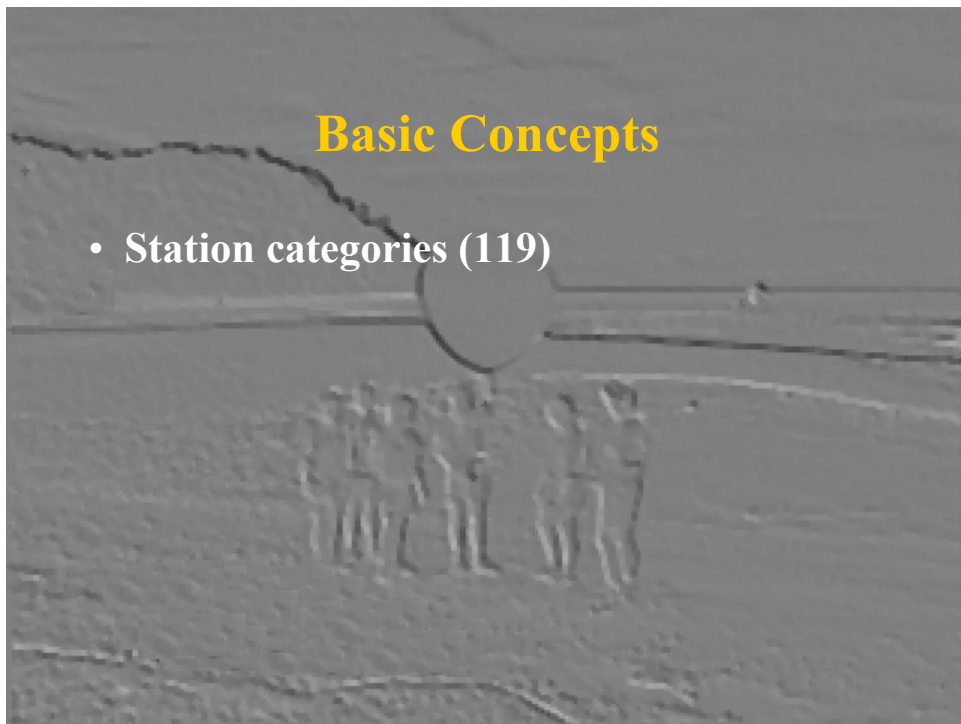
- Incomplete station history
- Monitoring in production

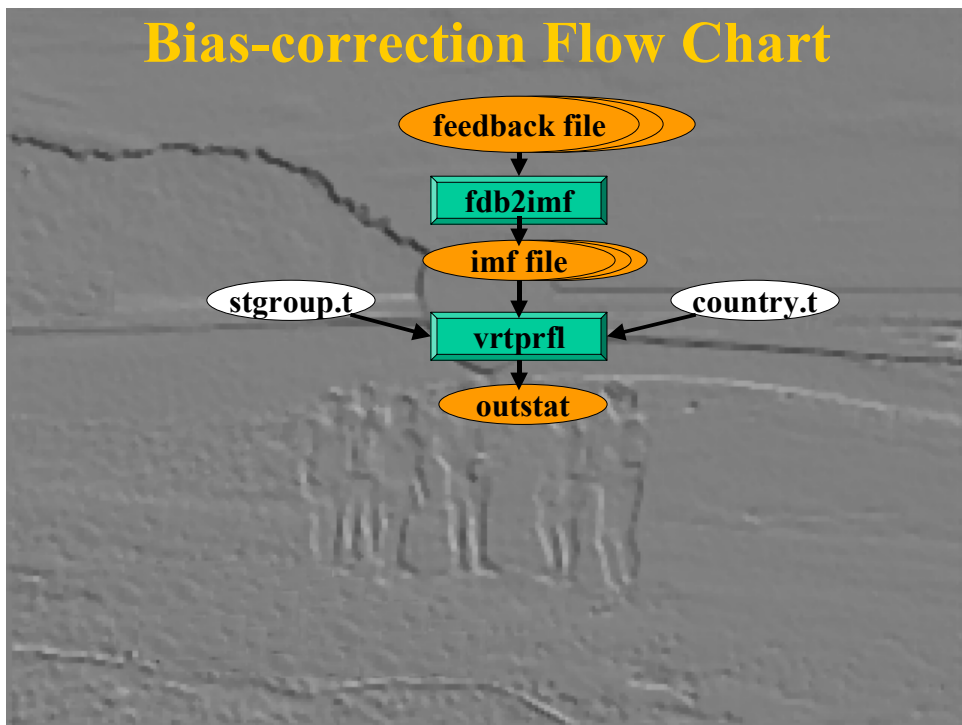
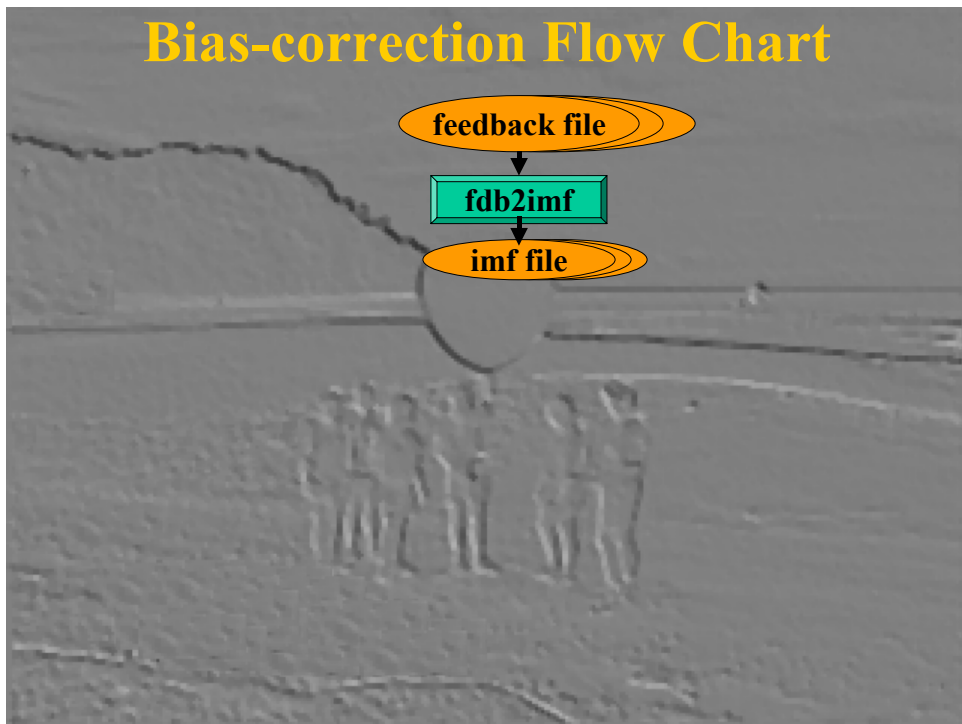
## Sounding Coverage

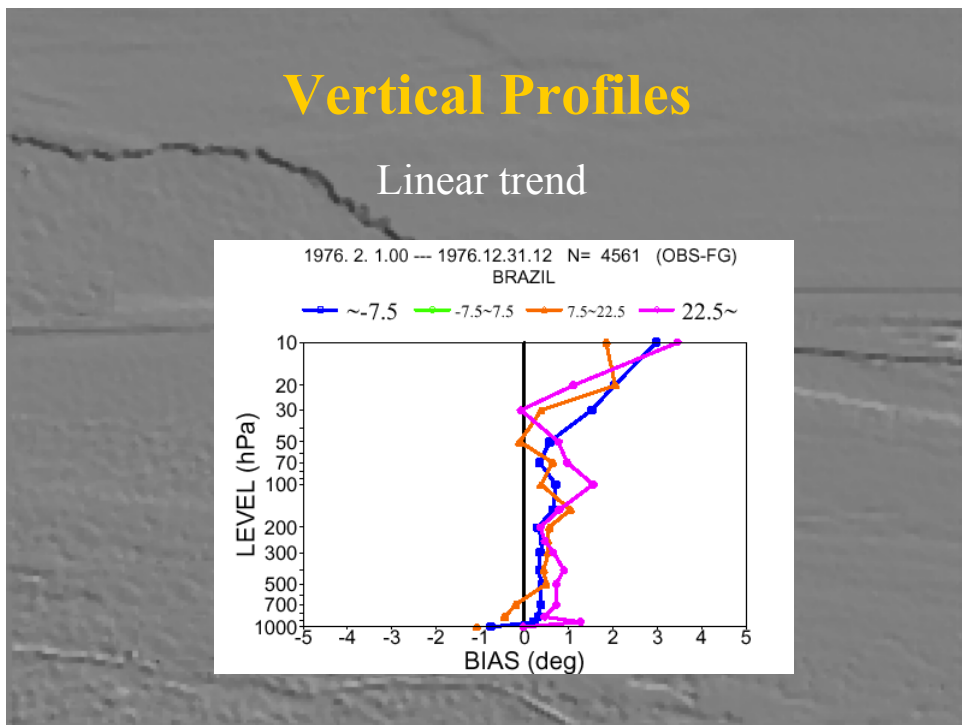
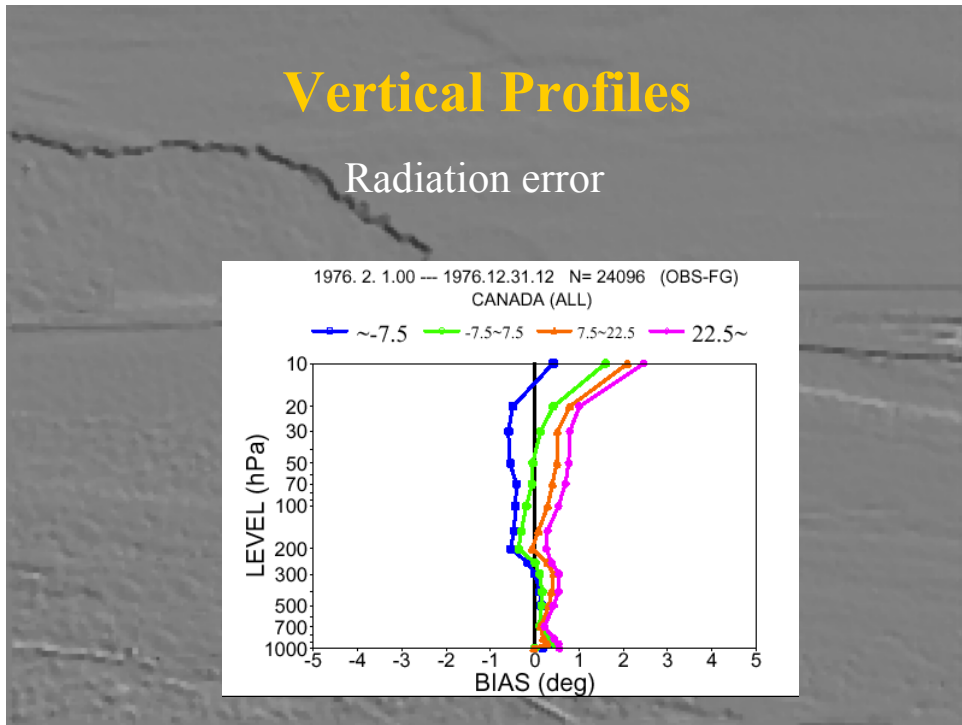


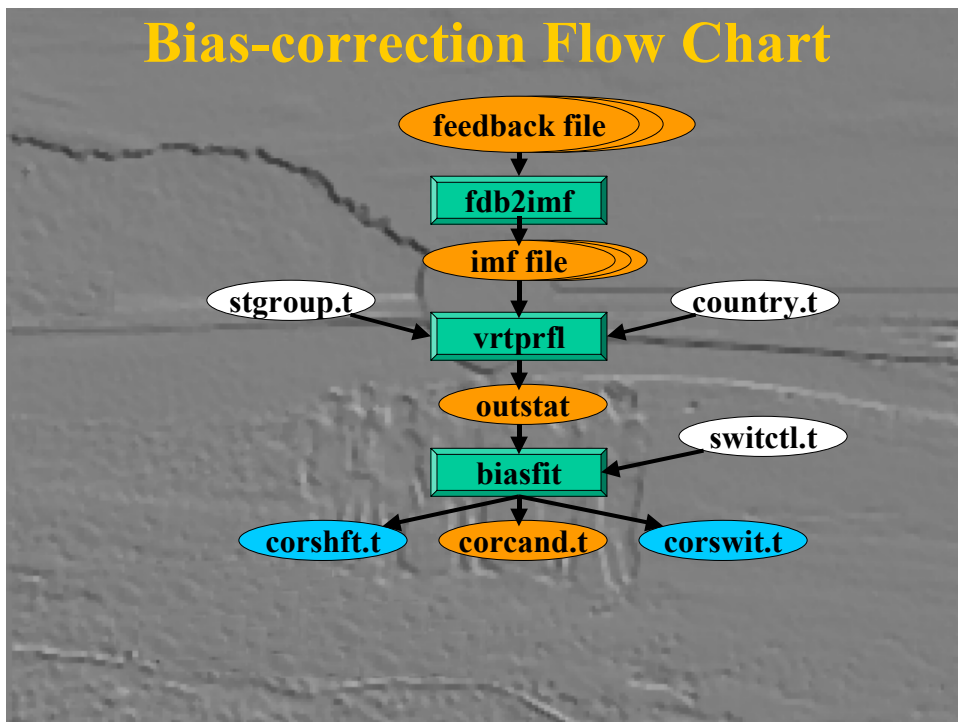
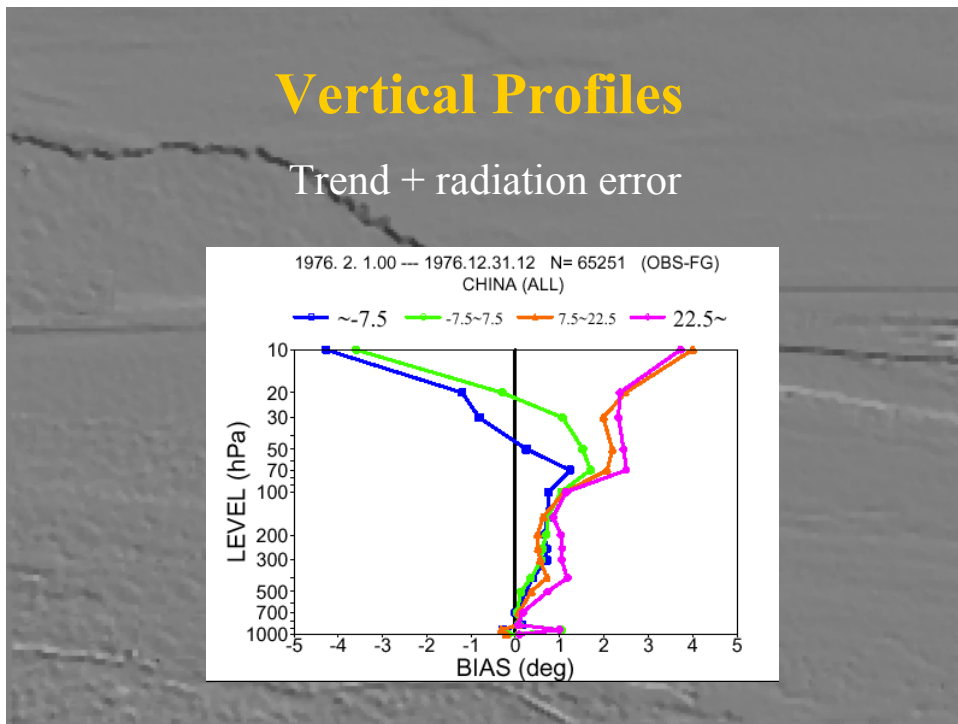
## Station Categories

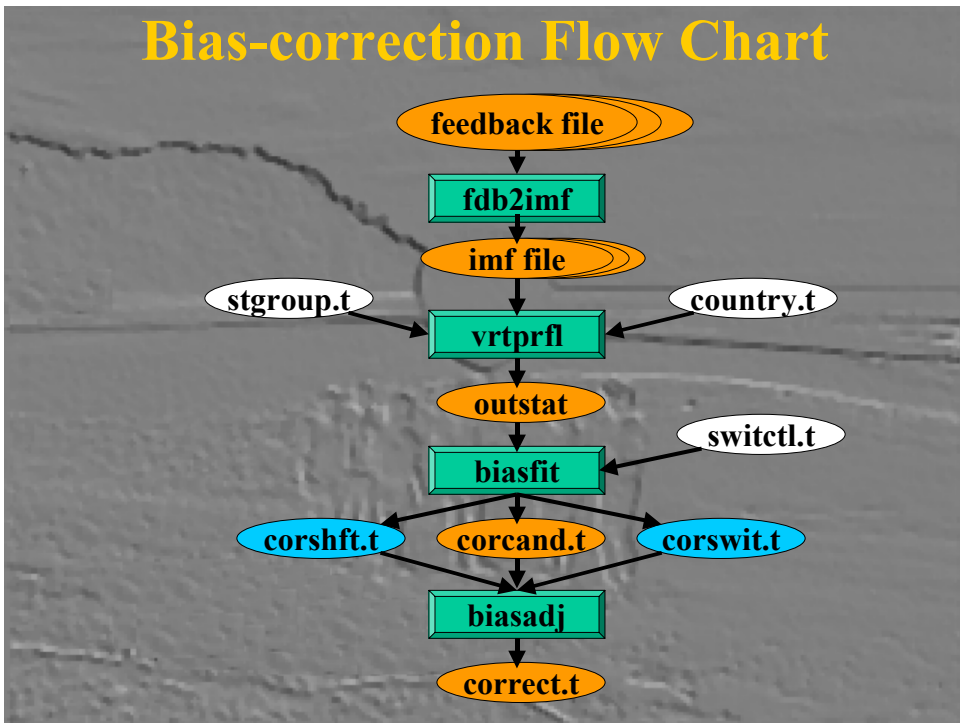
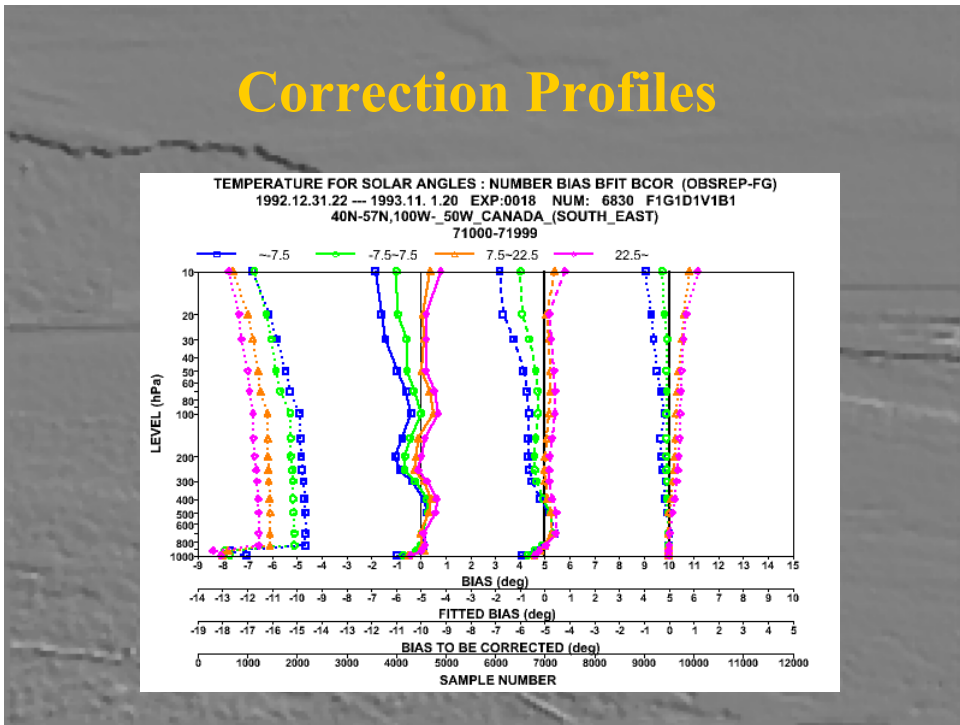




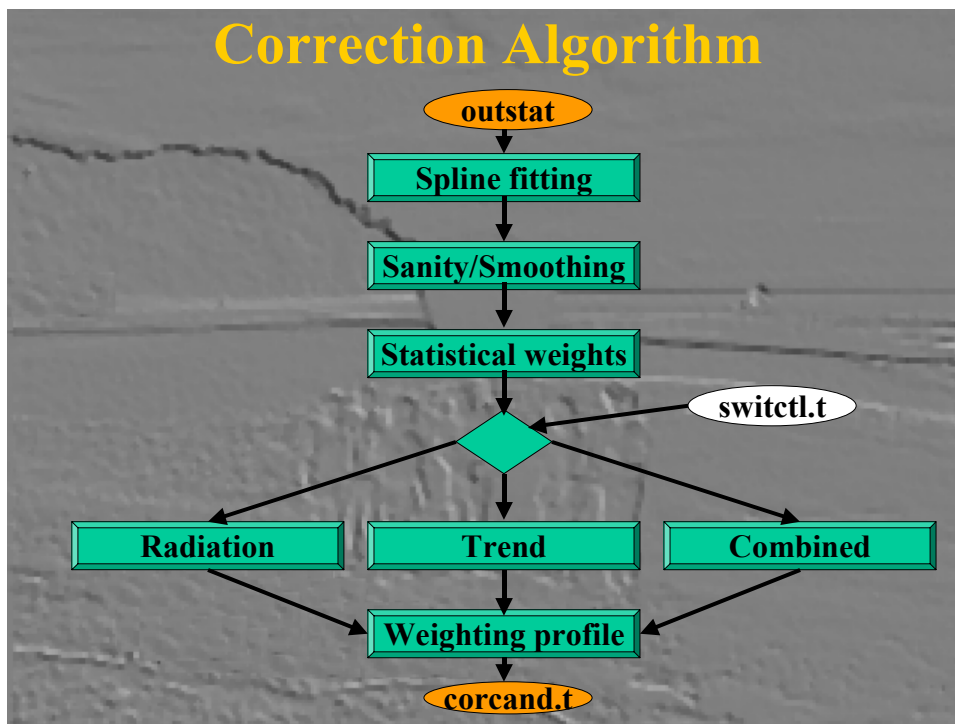




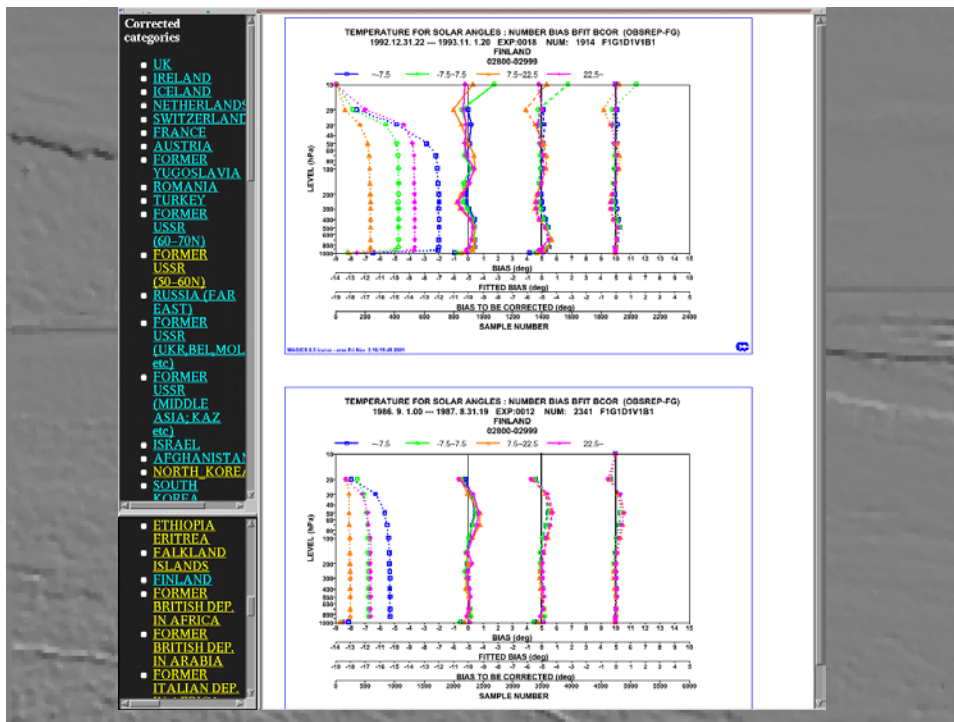






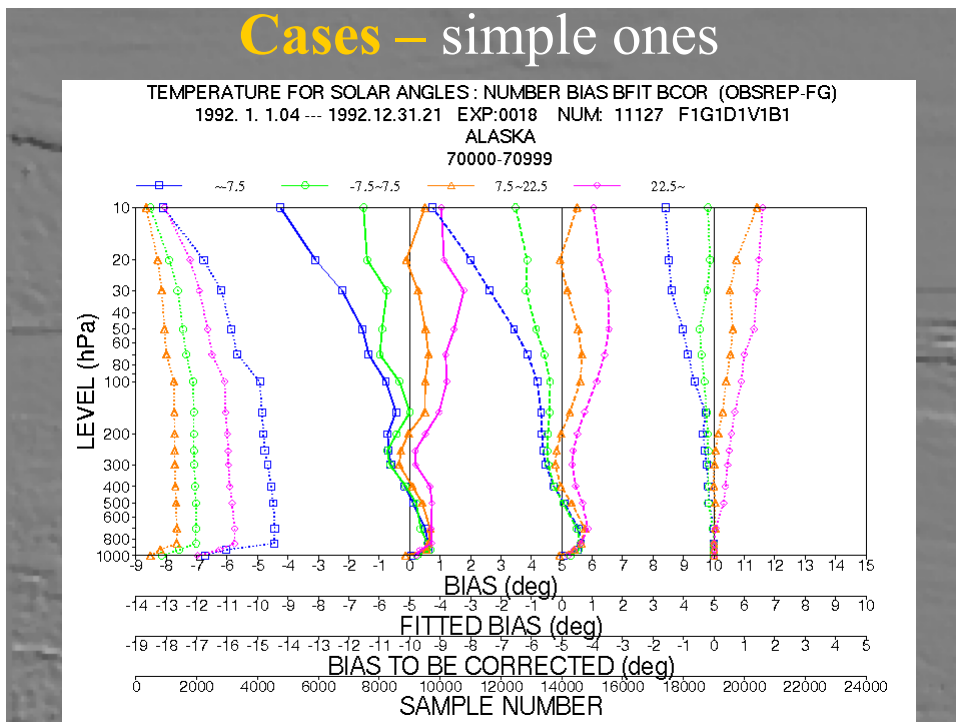
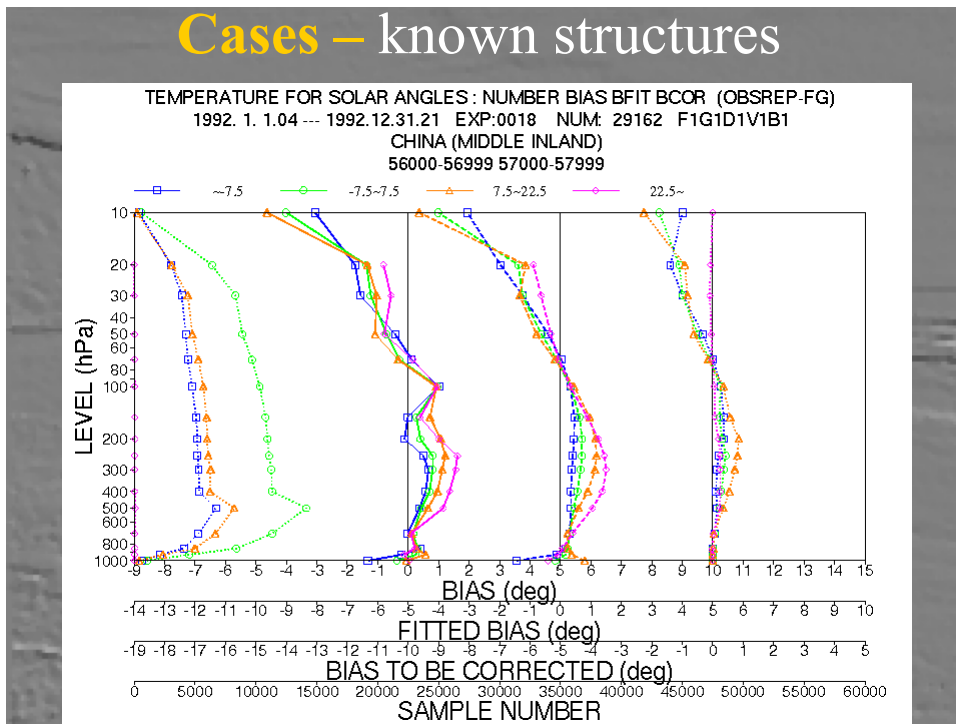


- ### Basic Concepts
- Station categories (119)
  - OBS-FG based statistical correction
  - Visual monitoring

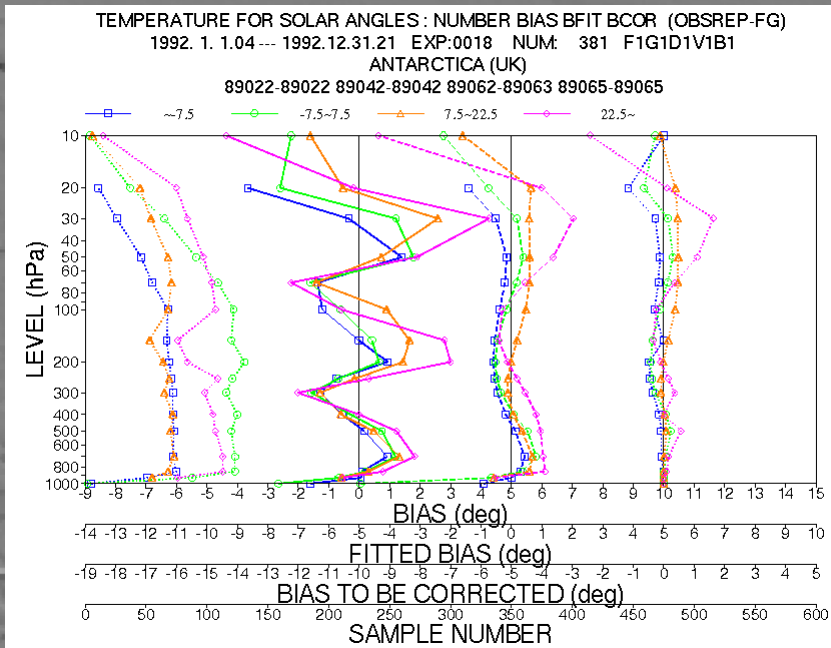


## Currently

- Stream 1 active
  - 48 corrected categories
- Streams 2 & 3 passive
  - Statistics
  - Experiences



## Cases – model biases



## Cases – “unbiased”

