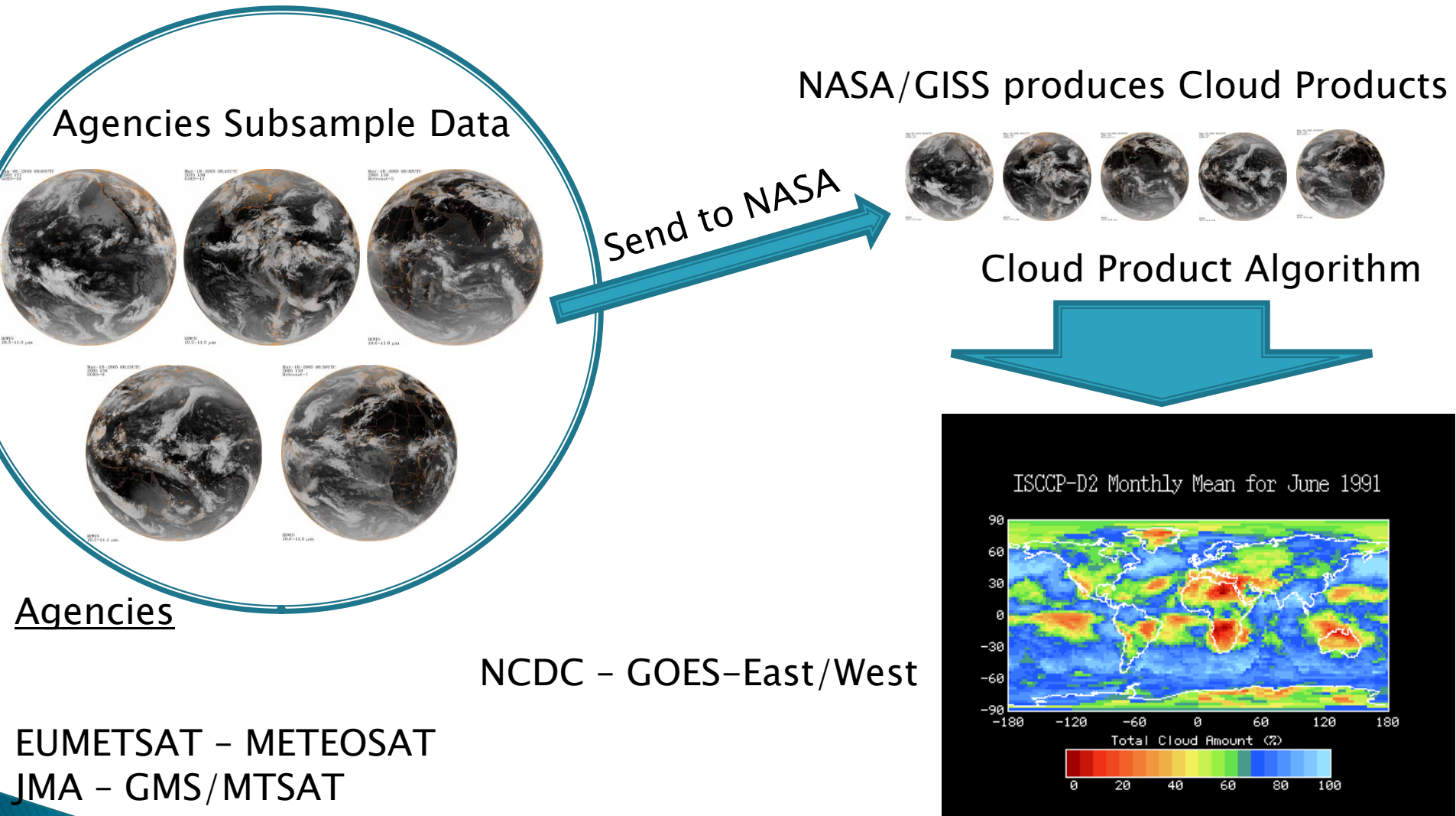


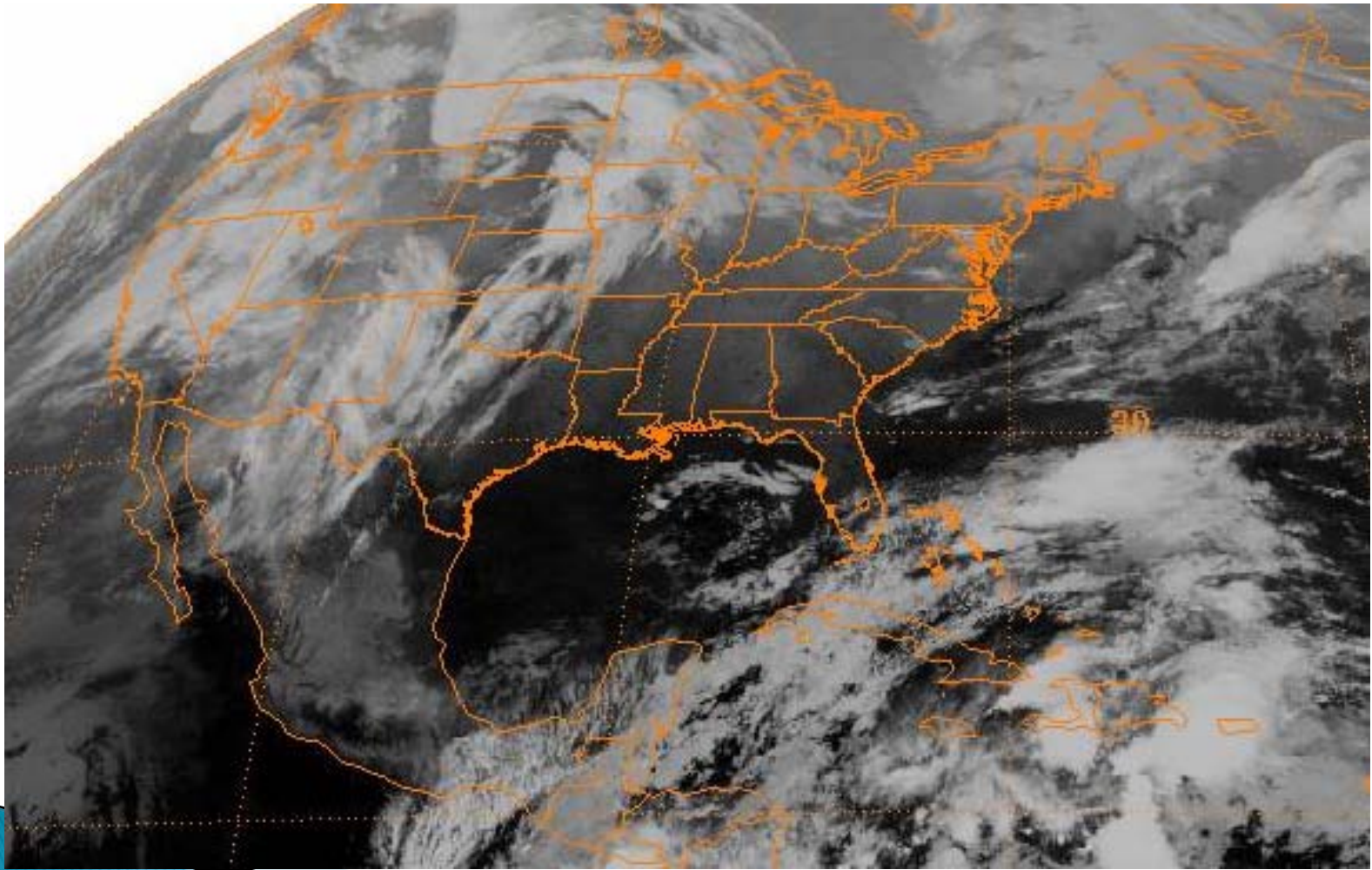
# ISCCP Data processing Research to Operations

Ken Knapp,  
NCDC/Remote Sensing & Applications Division

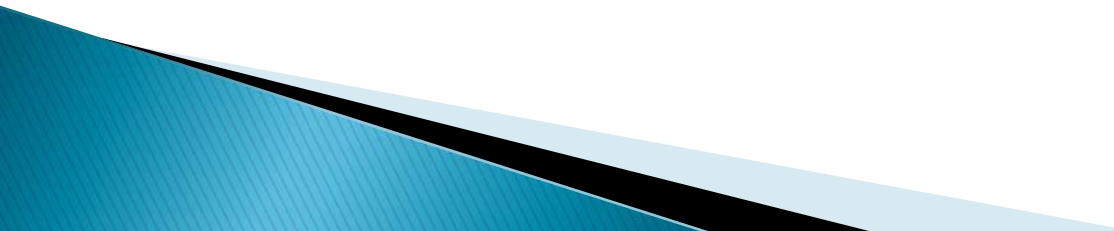
# Background: ISCCP processing



# Algorithm: Sub Sampling



# Why this is a simplistic case ...

- ▶ No complicated algorithms
  - ▶ Limited inter-satellite adjustments
    - tuning/calibration/etc.
  - ▶ No ancillary data
  - ▶ Code is interoperable
    - Java/PHP are largely machine independent
  - ▶ Limited manual operation
  - ▶ Repeated reprocessing unlikely
- 

# GOES Processing steps at CIRA

At NCDC

- ▶ Ingest GOES data
  - CIRA Satellite Ground Station – CLASS
- ▶ Subsample data
  - Java & PHP code – Java code
- ▶ Record files processed
  - SQL Database – Oracle Database
- ▶ Archive data
  - FTP to NCDC & NASA/GISS – FTP

# Considerations

- ▶ Transferring ...
  - Code, Static ancillary data, data feeds/subscriptions
- ▶ Processing steps
  - Are they documented?
- ▶ Need test cases
  - Ensure both systems produce same output
- ▶ NOAA/NCDC Procedures
  - NOAA's "What to archive"
  - Data submission agreements
  - Configuration Management/Software Review
    - Security, Efficiency, etc.

# Lessons learned

- ▶ What is “operations”?
    - Means different things to different entities
  - ▶ More interaction with NCDC improves transition
    - Get operations branch involved early
  - ▶ Data feeds can be tricky
  - ▶ Hofstadter's Law:
    - *“It always takes longer than you expect, even when you take into account Hofstadter's Law.”*
    - So start early
- 