

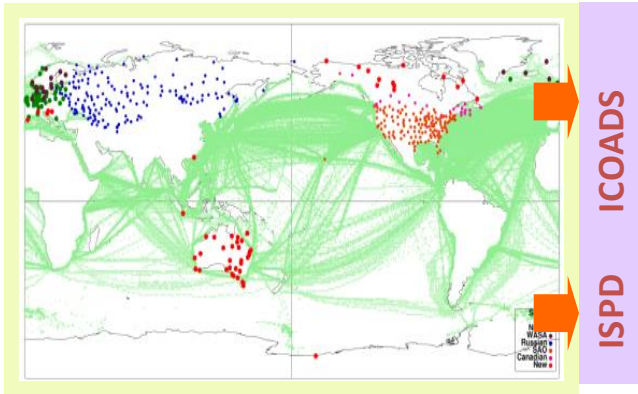


Atmospheric Circulation Reconstructions over the Earth

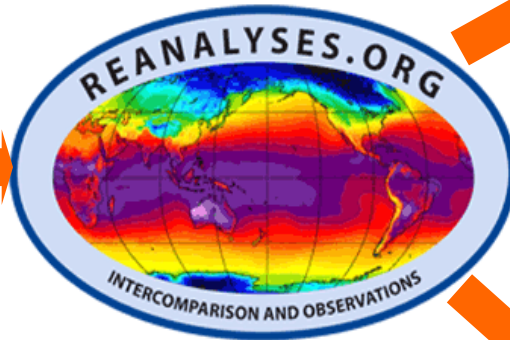
USER NEEDS

REANALYSES

DATA



ICOADS
ISPD



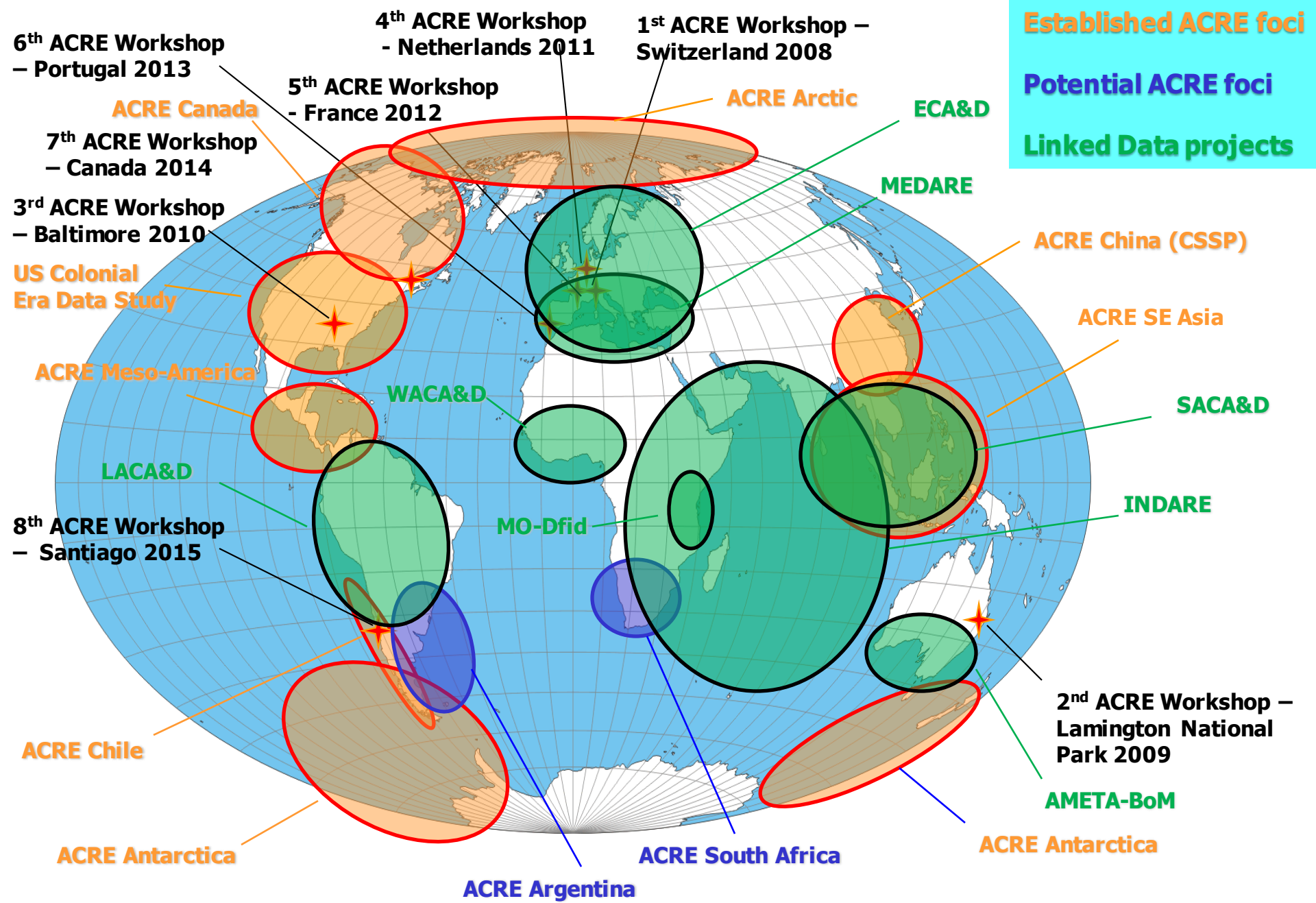
- IRI
- NCAR
- NOAA ESRL
- NERSC
- KNMI
- BADC

MO PRECIS
Downscaling
Higher Resolution

- Environmental Assessments
- Extremes, Impacts & Risks
- Water resources
- Agricultural
- Forestry
- Energy
- Marine operations
- Fisheries
- Cultural landscapes and built heritage
- Education
- Ecological
- Phenological
- Health & Disease
- Reinsurance
- Climate Monitoring
- Model Validation

Citizen Science
'Crowd Sourcing'
(eg. Oldweather.org
Weather Detective)

20th Century Reanalysis Project (20CR)
20CRv2 1871-2012
20CRv3 1850-2015 (in 2016)
global historical reanalysis
56 realisations every 6 hours,
2° x 2° spatial resolution



ACRE Regional Focii & associated data rescue projects