

Thoughts about ERA-Clim2 from D. Bromwich

- This is a large and complex project with sometimes conflicting objectives.
- It has been complicated by the departure of key personnel.
- One of the main products for the scientific community will be CERA-20C.
- There are a number of substantial atmospheric issues in ERA-20C that will propagate into CERA-20C unless addressed and potentially have a major negative impact on the top part of the ocean circulation as a result of the coupling over 9 years.
- If feasible, investigation and understanding of these shortcomings to ERA-20C using both ECMWF personnel and external partners is a desirable undertaking that should start now with a survey and a synthesis of issues identified by the community.
- Personally I think it is important for ECMWF's scientific credibility to deliver CERA-20C that fixes the major issues in ERA-20C and hopefully is an advance on 20CR.
- Other: ICs and spin-up for ocean for each stream? Sea ice? CERA-20CM is desirable. Land ICs and spin-up? Snow cover assimilation over 100 years? Continue with digitization of key surface data, e.g., Orcadas, South Georgia.