

Challenges of reanalysis: past, present and future

Adrian Simmons

European Centre for Medium-Range Weather Forecasts

The origins, evolution and achievements of atmospheric reanalysis will be reviewed. Emphasis will be placed on some of the challenges that have been encountered, illustrating where significant progress has been made and discussing issues, longer-standing and emerging, that remain to be satisfactorily addressed. The talk will cover some specific aspects of the performance of reanalysis systems and will present examples of the complementary and interacting roles of comprehensive reanalysis and the development of instrument-specific datasets and products. Broader institutional matters, including international coordination, will also be discussed.

Corresponding author:

Name: Dr Adrian Simmons
Organization: ECMWF
Address: Shinfield Park
Reading, RG2 9AX
United Kingdom
Email address: adrian.Simmons@ecmwf.int