EMS Annual Meeting Abstracts,
Vol. 6, EMS2009-285, 2009
9th EMS / 9th ECAM


9th EMS Annual Meeting
9th European Conference on Applications of Meteorology
High resolution meteorology
- applications and services

# Coherent structure tracking

P. Arbogast (1), J.B. Gilet (1), A. Joly (1), and M. Plu (2)

(1) METEO-FRANCE-INSU, CNRM-GAME, TOULOUSE, France (philippe.arbogast@meteo.fr), (2) METEO-FRANCE, CRC, La Réunion

An novel algorithm dedicated to the tracking of coherent structures in terms of either upper-level Potential Vorticity or low-level relative vorticity has been recently developed. It is based upon a wavelet-based coherent-structure depiction method that behaves pretty well for various shapes such as elongated features. The time consistency of the extraction is provided by an existing tracking algorithm developed by F. Ayrault. The new method is applied to the ERA-INTERIM dataset. New mid-latitude cyclones composites will be shown.