Geophysical Research Abstracts
Vol. 14, EGU2012-9036-2, 2012
EGU General Assembly 2012

Explosive cyclone developments in era-interim under consideration of multiple tracking approaches

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Within the IMILAST initiative, one of the main focal points is an in depth analysis of selected case studies in order to compare the different performance of the various tracking algorithms for "difficult" cases, such as fast developing storms associated with high-impact weather. With this aim, explosive developments over both hemispheres are evaluated using high resolution era-interim data. Results show that while all tracking algorithms are able in general to identify the main segment of the evaluated cyclone tracks, e.g. their phase of explosive development, many differences can be detected in detail for the initial and final development phases.