



A new database for Intense Mediterranean cyclones

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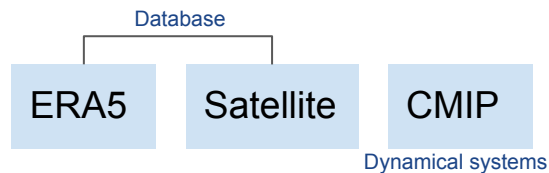
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Objectives and Methods: The first challenge of this work is to provide an extended catalogue and climatology of intense Mediterranean cyclones (IMC) dating back up to 1969 using satellite/literature and several detection methods within the framework of the [EFIMERA project](#). The second challenge is to investigated their impacts and evaluate their behaviour in the future using dynamical systems indicators.



- Satellite/literature
- Detection based on minima in SLP
- Detection based on extrema in relative vorticity
- Detection based on SLP/vorticity

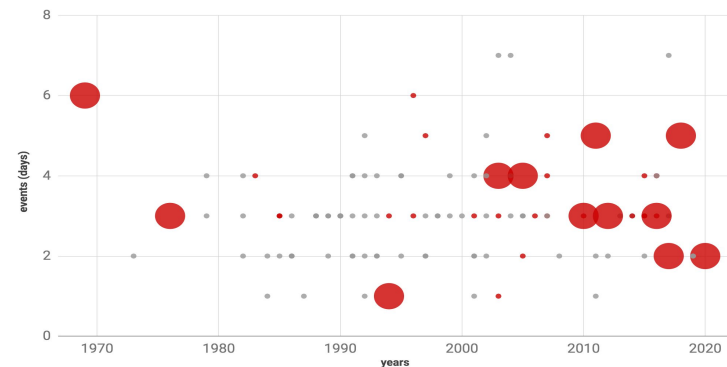


IMC Database:

No.	Data (YYYY/MM/DD)	Duration (days)	Cluster	Name	Reference
25	2007/10/25	3	W		Gaetner et al, 2016
26	2007/10/16	3	W	Ortensiano	Eumetsat
27	2007/03/19	5	W	Paul	Eumetsat
28	2007/01/01	4	E	Alfidia	Eumetsat
29	2006/09/25	3	C	Querida	Gaetner et al, 2016
30	2005/12/13	4	E	Zeo	Gaetner et al, 2016
31	2005/10/26	3	C	Laura	Luque et al, 2007
32	2005/09/27	3	E	Euxeinos	Eumetsat
33	2005/09/15	2	E	Antigone	Eumetsat
34	2004/11/02	4	C	Ines	Eumetsat
35	2004/09/17	4	C	Hassan	Eumetsat
36	2004/05/25	3	W	Accursio	Eumetsat
37	2004/04/15	7	W	Vicky	Eumetsat
38	2003/10/14	7	W	Adefina	Gaetner et al, 2016

Impacts:

In red IMC with impacts, size represents events with victims



Dynamical Systems:

Large scale drivers associated to IMC tend to be reduced in the future, will be less predictable and last less.

