



**MedCyclones**

**CA19109 | European network for  
Mediterranean cyclones in weather and climate**

COST Action CA19109 “MedCyclones”

## Deliverables D1.6, D2.6 and D3.5

Yearly internal report on dissemination strategies, stakeholders involvement and products tailored to their needs  
(in WG1, WG2 and WG3)

*1<sup>st</sup> Year: 20 October 2021*

### **Common Communication Activities**

As stated on the MU, during the first year the Core Group and communication team has coordinated the dissemination of the Action's results and ensured internal and external communication, mostly using the MedCyclones COST Action website and social media (twitter) feeds.

The first communication activities were dedicated to the development of the image of MedCyclones COST Action, with the creation of the **MedCyclones logotype**. For this, a first draft has been presented and discussed among the MedCyclones community and a professional designer has developed the image and logo with the integration of most comments. Figure 1 shows the final product.

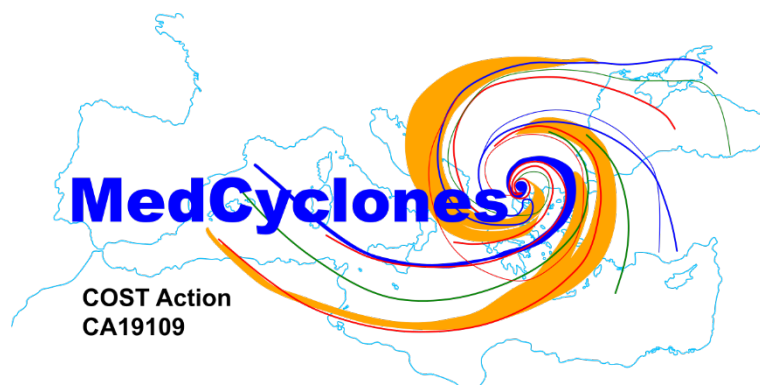


Figure 1 – MedCyclones logotype.

Also, templates for presentations and documents were developed.



Additionally, a **dedicated website** (<https://medcyclones.utad.pt/>) and social media channels have been created and disseminated among the MedCyclones community. The website provides updated information about the Action activities and initiatives, meetings/workshops presentations, STSM reports and communication activities and outputs.

Three mailing lists, one for each WG, has been created to facilitate information flows among the Action members:

WG1: [medcyc\\_wg1@cyi.ac.cy](mailto:medcyc_wg1@cyi.ac.cy)

WG2: [medcyc\\_wg3@cyi.ac.cy](mailto:medcyc_wg3@cyi.ac.cy)

WG3: [medcyc\\_wg3@cyi.ac.cy](mailto:medcyc_wg3@cyi.ac.cy)

These lists have been progressively updated with new members subscriptions. Clear information on how to join the Action is provided on the website.

### **WWRP endorsement**

MedCyclones has been endorsed by WWRP in early 2021, aiming to connect our research with the Tropical Meteorology Research Working Group and the High-Impact Weather Project. MedCyclones addresses several WWRP Action Areas through predictability and physical processes related to cyclones in the Mediterranean Sea as well as impacts of these events.

On 30 September 2021, the Action Chair (Emmanouil Flaounas) reported on Action activities at the WWRP Scientific Steering Committee meeting.

### **Meetings**

Three **Kick-off meetings** (one for each WG, online), two **WG meetings** (online) and a **Thematic meeting** (hybrid online/in presence) have been organized to provide news on the Action Working Group (WG) initiatives among the scientific community, to foster new initiatives and in order to better coordinate and steer the research activities of the Action participants, as well as to share new scientific findings and to promote collaborations and further involvements in the network. Moreover, within the WGs, each research initiative has organized a number of specific meetings with the involved participants.

The following table summarizes all the meetings that have been held during the first year of the COST Action:

<b>2020</b>		
<b>Date</b>	<b>Event/activity</b>	<b>N.Participants</b>
15-16 Oct	KO Meeting	
09 Dec	<b>WG1 Kickoff Meeting</b>	~70
10 Dec	<b>WG2 Kickoff Meeting</b>	~70
15 Dec	<b>WG3 Kickoff Meeting</b>	~50

<b>2021</b>		
<b>Date</b>	<b>Event/activity</b>	<b>N.Participants</b>
26 Feb	WG1-2 Medcane Definition Initiative- Meeting	~15
22 Mar	WG1 Model Intercomparison Initiative – Meeting	12
24 Mar	WG1 DynForMed Initiative - Meeting	~15
07 Apr	WG1-2 3T Initiative - Meeting	~20
18 Maj	WG1 Model Intercomparison Initiative – Meeting	~15
11 Jun	<b>WG3 Meeting</b>	~30
30 Jun	WG1-2 Medcane Definition Initiative - Meeting	~15
13 Jul	WG1 DynForMed Initiative - Meeting	15
20 Jul	WG1-2 3T Initiative - Meeting	~20
20-22 Sep	1 <sup>st</sup> Meeting on Med Cyclones and Aerosol (together with COST InDust) – <b>Thematic Meeting</b>	15 in presence ~30 online
25 Oct	<b>WG2 Meeting</b> on Mediterranean Cyclones and Climate modelling	~70
27 Oct	WG3-Lightning Initiative meeting	~20

## Kick-off Meetings

### **WG1 - 9 December 2020 (Florian Pantillon - LAERO, Toulouse)**

More than 70 participants met online on 9 December 2020 for the kick-off meeting of WG1 dedicated to Mediterranean cyclones at weather scales. After a general introduction to the MedCyclones COST Action by the committee, Marcello Miglietta presented a very insightful talk about Medicanes, Gert-Jan Steeneveld gave hints about how to conduct a model intercomparison, Philipp Zschenderlein and Manos Flaounas introduced initiatives about operational forecasts and cyclone tracking, respectively, before Rémy Meynadier explained the point of view of an insurance company. The scientific presentations are publicly available on the website (<https://medcyclones.utad.pt/wg1-kick-off-meeting/>).

### **WG2 - 10 December 2020 (Shira Raveh-Rubin - Weizmann Institute of Sciences)**

During the WG2 kickoff meeting, on 10 December 2020, WG2 members met online to discuss the group objectives for understanding Mediterranean cyclone processes on the climate timescale. Short scientific talks were given by members, followed by lively discussions and new initiatives to set the WG2 wheels in action. The scientific presentations are publicly available on the website (<https://medcyclones.utad.pt/wg2-kickoff-meeting/>).

### **WG3 - 15 December 2020 (Jonilda Kushta -The Cyprus Institute)**

The kick-off meeting of WG3 took place on 15 December 2020 with the attendance of many experts in research areas related to climatic, weather, water and socio-economic impacts of Mediterranean Cyclones. Dr. Stojanov talked about how we can investigate cyclones and migration flows in the Mediterranean based on experience from other regions of the globe that frequently deal with extreme weather challenges. Dr. Flaounas gave an overview of the multi-angled and complex cyclone-related impacts related to precipitation, winds, thunderstorms, dust and Mediterranean water cycle and ecosystems. Some historical lessons from studying weather and climate impacts of the Mediterranean cyclones were presented to the participants by prof. Pinhas Alpert. The meeting highlighted new horizons and research opportunities that can take place in the framework of MEDCYCLONES COST action, illustrating that the pursued knowledge and deeper understanding of processes and impact mechanisms can benefit affected societies in many aspects. The scientific presentations are publicly available on the website (<https://medcyclones.utad.pt/wg3-kickoff-meeting/>).

## WG Meetings

### WG3 11 June 2021 (Jonilda Kushta & Samira Khodayar Pardo)

WG3 online meeting on 11 June 2021 to disseminate new initiatives being developed and to foster scientific discussion. The scientific presentations are publicly available on a Dropbox folder and on the website (<https://medcyclones.utad.pt/wg3-2021-meeting/>).

### WG2 25 October 2021 (Shira Raveh-Rubin)

WG2 online meeting with a large audience interested (>75 participants online and many others who could not attend but showed interest on the slides and the follow-ups) to disseminate ongoing and new initiatives and to foster scientific discussion, collaboration and further involvements in the network. The scientific presentations are publicly available on the website (<https://medcyclones.utad.pt/wg2-2021-meeting/>).

## Thematic Meeting

CNR-ISAC promoted the **1st Meeting on Mediterranean Cyclones and Aerosol**, jointly organized by the COST Actions CA19109 – MedCyclones “European network for Mediterranean cyclones in weather and climate” and CA16202 – inDust “International Network to Encourage the Use of Monitoring and Forecasting Dust Products”. The event was held in Castro Marina, close to Lecce, in south-eastern Italy, from 20 to 22 September, 2021. Participants attended in person and online using GoToMeeting. There were 20 scientific presentations which are publicly available on the website (<https://medcyclones.utad.pt/lecce2021-meeting/>).

## Peer-reviewed papers

A Review paper entitled “Mediterranean cyclones: Current knowledge and open questions on dynamics, prediction, climatology and impacts” by M. Flaounas and co-authors (all deeply involved in the Action) **was submitted** in April and accepted with minor revision in October 2021 on Weather and Climate Dynamics (Copernicus Publ.)

A list of recent peer-reviewed papers published by MedCyclones members and related to the scientific topics provides an up-to-date overview of the results of this Action. Recent publications are summarized, continuously updated and available on the website (<https://medcyclones.utad.pt/publications/>).



## STSM

Dissemination of MedCyclones STSM calls and their results are communicated through the network. Despite the pandemic situation, three STSM were successfully accomplished in 2020 and 2021 and their results and reports are publicly shared on the website.

To foster dissemination of the action, its objectives and scientific results all grantees have been invited to prepare communication materials related to their research. The STSM list, reports and communication materials are available on the website (<https://medcyclones.utad.pt/grantees/>).

## Videos

Under the scientific supervision of Silvio Davolio and the involvement of the Core Group and WG leaders, four videos have been developed by a scientific communication professional. These videos are intended for the general public interested on learning more about Mediterranean cyclones and their impacts. The videos are publicly available on the MedCyclones YouTube Channel:

- 1) Cyclones, tropical cyclones, and tornadoes: let's try to make it clear
- 2) Mediterranean cyclones climatology and climate change
- 3) Mediterranean tropical-like cyclones – The peculiar medicanes
- 4) The record-breaking Venice 2019 flood

## Flyers

MedCyclones' members were encouraged to develop communication materials such as leaflets, flyers, videos and interviews to disseminate their initiatives and results. A flyer on “Medicanes: Mediterranean Hurricanes” has been prepared and disseminated on the website (<https://medcyclones.utad.pt/communication/>).

## Presentations

- Action scope and activities were presented (poster) by Silvio Davolio at the 3<sup>rd</sup> National Congress of the Italian Association of Atmospheric Sciences and Meteorology, 9-12 February 2021 (L'Aquila, Italy – online)
- Shira Raveh-Rubin promoted the goals and scope of MedCyclones COST Action in a joint workshop of the German and Israeli Ministries of Science on “Climate change impacts in the Middle East” on 26 May 2021.

- Emmanouil Flaounas reported on the Action activities at the WWRP Scientific Steering Committee meeting on 30 September 2021.
- At the Climate and Atmosphere Research and Innovation in the Eastern Mediterranean & Middle East Workshop 11-12 October 2021 two presentations concerning the Action were given:
  - MEDCYCLONES COST Action: A European Network for Mediterranean cyclones in weather and climate (E. Flaounas, HCMR)
  - The impact of Assimilation Aeolus remote sensing wind data on regional Aeolian dust (P. Kiriakides, CyI)

### Advertisement

The project was announced on the Grant Holder's website along the Climate and Atmosphere Research Center EMME-CARE project (Center of Excellence) as per

<https://emme-care.cyi.ac.cy/cost-medcyclones-european-network-for-mediterranean-cyclones-in-weather-and-climate-2020-2024/>

and on newsletter:

<https://www.cyi.ac.cy/index.php/cyi-news/cyi-appointed-grant-holder-in-new-eu-cost-action-project-cost-medcyclones.html>

A news about the Action was included in the Newsletter of the Italian Association of Atmospheric Sciences and Meteorology (Newsletter n. 4 - [https://aisam.eu/wp-content/uploads/2021/12/NEWSLETTER-AISAM\\_004\\_2020.pdf](https://aisam.eu/wp-content/uploads/2021/12/NEWSLETTER-AISAM_004_2020.pdf))

### Specific Dissemination and Communication strategies in WG3

Communication and networking strategy:

A background questionnaire was prepared and sent to all WG3 registered members to complete and send back to the WG leader in order to map the participants' expertise, potential contribution and benefit from the participation in this COST Action (Figure below). The questionnaire was presented to the members on the WG3 kick-off meeting (December 15<sup>th</sup>, 2020).



The information gathered was presented to the members on the WG3 second meeting on June 11<sup>th</sup>, 2021. The classification of the members was discussed and further initiatives and priority research areas were defined based on this classification (Figure below):

### 3. MEMBERS ALLOCATION

<p><b>HEAVY PRECIPITATION:</b></p> <ul style="list-style-type: none"> <li>○ Helena Flocas, U.Athens</li> <li>○ Marina Losub, U.Iasi (Romania)</li> <li>○ Lucian Sfica, Uni. Alexandru Ioan Cuza (Romania)</li> <li>○ Charles Galdie, Uni. Malta</li> <li>○ Filippos Tymvios, DoM, Cyprus</li> <li>○ George Pacey, FU Berlin</li> <li>○ Shira Raveh-Rubin, Weizmann Institute of Science</li> <li>○ Theodore M. Giannaros, NOAA, IERSD, Greece</li> <li>○ Silvio Davolio, CNR-ISAC (Italy)</li> <li>○ ...</li> </ul>	<p><b>WINDSTORMS:</b></p> <ul style="list-style-type: none"> <li>○ Lucian Sfica, Uni.AIC (Romania)</li> <li>○ George Pacey, FU Berlin</li> <li>○ Shira Raveh-Rubin, Weizmann Institute of Science</li> <li>○ Neki FRASHERI, Academy of Sciences of Albania</li> </ul> <p><b>SEA WAVES/STORM SURGES:</b></p> <ul style="list-style-type: none"> <li>○ Platon Pattakas, U.Athens</li> <li>○ Md salauddin, U.College Dublin</li> <li>○ Charles Galdie, Uni. Malta (Italy)</li> <li>○ Silvio Davolio, CNR-ISAC (Italy)</li> </ul> <p><b>DUST:</b></p> <ul style="list-style-type: none"> <li>○ Lucian Sfica, Uni.AIC (Romania)</li> <li>○ Pinhas Alpert (tel Aviv U.)</li> <li>○ ...</li> </ul>	<p><b>BLIZARD AND SNOW:</b></p> <ul style="list-style-type: none"> <li>○ Lucian Sfica, Uni.AIC (Romania)</li> <li>○ Amihaesei Vlad-Alexandru, NMeTA Uni.AIC, Romania</li> </ul> <p><b>ELECTRICITY:</b></p> <ul style="list-style-type: none"> <li>○ Ilona Lang, FMI</li> </ul> <p><b>FOG:</b></p> <ul style="list-style-type: none"> <li>○ Anastasiya Stoycheva, NIMH Bulgaria</li> </ul> <p><b>LIGHTNING:</b></p> <ul style="list-style-type: none"> <li>○ Theodore M. Giannaros, NOAA, IERSD, Greece</li> </ul> <p><b>VARIOUS:</b></p> <ul style="list-style-type: none"> <li>○ Inga Dailidene, MRI, Lithuania</li> <li>○ Vassiliki Kotroni, NOAA, Greece</li> <li>○ Pavel Ichim, Uni.AIC Romania</li> <li>○ Meynadier Remi, AXA</li> <li>○ Robert Stojanov, seeio economic impacts...</li> </ul>
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The meeting included further the following sections:

- Discussions on impacts classification and priority research areas
- Member's allocation, research topics, needs and initiatives based on your feedback



