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| **WP 1** | Application Work Package<br><br>Develop new products and methodologies for calibration of LAM ensembles for extremes and probabilistic prediction of thunderstorms and fog |
| **WP1.1** | Inventory of existing methods and SW already developed by the Members and literature review |
| Task 1.1.1 – Literature review:<br>Task 1.1.1.1 – literature review of calibration of LAM ensemble for extremes.<br>Task 1.1.1.2 - literature review of probabilistic methods for prediction of thunderstorm and fog.<br><br>Task 1.1.2 – Survey:<br>Task 1.1.2.1 – survey among European NMSs about calibration of LAM ensemble for extremes.<br>Task 1.1.2.2 – survey among European NMSs about probabilistic methods for prediction of thunderstorm and fog. | |
| **WP1.2** | Define and develop new products and methodologies for computation/elaboration:<br><br>• calibration of ensembles, mainly for extremes (wind, precipitation, temperature, …);<br><br>• products for probabilistic prediction of thunderstorms (clear benefit, link with research, link with EMMA), fog |
| Task 1.2.1 - Define and develop methodologies for calibration of ensembles, mainly for extremes.<br><br>Task 1.2.2 - Define and develop new products for probabilistic prediction of thunderstorms and fog. | |
| **WP 2** | Research Work Package<br><br>Understanding the sensitivity of ensemble prediction systems to soil conditions and PBL and their effect on the prediction of selected phenomena (fog and thunderstorms) |
| **WP2.1** | Investigating sensitivity of models to soil moisture and PBL |
| Note: The whole work of this package will be in in kind mode then the only commitment of the project funded institutions is to organize a workshop and write a report based on the outcome of the workshop.<br><br>Task 2.1.1 - Investigating the sensitivity of models to the soil moisture content.<br><br>Task 2.1.2 - Investigating the impact of soil moisture assimilation on forecast.<br><br>Task 2.1.3 - Investigating the sensitivity of models to PBL characteristics.<br><br>Task 2.1.4 - Presentation and discussion of results in a workshop. | |
| **WP2.2** | Investigating the ratio of sensitivity to different sources of surface and upper air uncertainty at the CP scale |
| Note: The whole work of this package will be in in kind mode then the only commitment of the project | |

funded institutions is to organize a workshop and write a report based on the outcome of the workshop. The work should also be coordinated with C-SRNWP (ET EPS).

Task 2.2.1 - Research on the influence of IC (soil moisture and soil temperature) perturbations in the skill of the EPS forecasting fog and thunderstorms.

Task 2.2.2 - Research on the influence of model physics (turbulence and surface schemes) perturbations in the skill of the EPS forecasting fog and thunderstorms.

Task 2.2.3 - Research on the influence of physiographic data perturbations in the skill of the EPS forecasting fog and thunderstorms.

Task 2.2.4 - Presentation and discussion of results in a workshop.

| **WP 3** | **Coordination** |
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| **WP3.1** | Internal coordination between the Application and Research tasks |

Task 3.1.1 - Formation of the Expert Team, including one representative for each participating NMS and the C-SRNWP EPS ET (on a voluntary basis). Organization of a mailing list of the persons involved in the ET.

Task 3.1.2 - Organization of periodic WebEx meetings.

Task 3.1.3 - Organization of project workshops (one every year on average). One of the workshops will be organized together with the ASIST Project to assure a proper coordination between the two projects.

Task 3.1.4 - Select cases and periods for tests based on the proposals of the participating NMSs.

Task 3.1.5 - Writing reports showing the outcomes of all the tasks.

| **WP3.2** | Coordination with external partners and identification of possible follow up activities |
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Task 3.2.1 – Close coordination with the ASIST Project, including a common workshop organized in mid-2016.

Task 3.2.2 – Coordination with ECMWF.

Task 3.2.3 – Coordination with ET EPS of C-SRNWP in the framework of the Project Expert Team and having an active participation in the EWGLAM annual meeting.

Task 3.2.4 – Coordination with TIGGE-LAM to assure the use of the database archived at ECMWF.

Task 3.2.5 – Coordination with the Project User Group, through email, WebEx meetings and one face-to-face workshop

Task 3.2.6 - Identification of follow-up activities as a final contribution of the project on the basis of the results and discussions in the workshops

Task 3.2.7 – Reporting to EUMETNET Secretariat and STAC