



PROGRAMME OMP PHD DAY (9th April)



9h00-9h25 : Introduction to the day (various information, presentation of the COMPOTES association, speeches from the management of the OMP and the SDU2E doctoral school)

SESSION 1 : Spectral analysis

9h25-9h35 : Machine learning for guided analysis of laboratory spectra to study life-precursor molecules in space (Lilian Peyron, **IRAP**)

9h35-9h45 : Ecoacoustics, a new source of rainfall data (Rodrigo de Sousa Xavier, **GET**)

9h45-9h55 : Ultraluminous X-ray sources, interaction with their galaxies (Anastasia Kilina, **IRAP**)

9h55-10h10 : Flash talks posters & stands

10h10-11h00 : Morning break (posters, quizz, stands)

SESSION 2 : Observations & models of climate change

11h00-11h10 : Optical synergies for the spatiotemporal detection of water stress in different types of cultivated ecosystem (Sami Desguets, **CESBIO**)

11h10-11h20 : Cloud-aerosol interactions observed by ATLID/EarthCARE spaceborne lidar (Gaspard Fourmi, **LAERO**)

11h20-11h30 : From sediment to ecological response, adjustment trajectories of the Aude watersheds (Mathieu Brun, **CRBE**)

11h30-11h40 : Forcings-conditioned climate emulator for exploring novel emission pathways (Zoé Garcia, **CECI**)

11h40-11h50 : Mass changes of the Antarctic Peninsula glaciers, new constraints from stereoscopic imagery and laser altimetry (Maud Bernat, **LEGOS**)

11h50-12h05 : The PhD Violence Meter (Zoé Ott, **GET** ; Gwen Le Bras, **GET** ; Mickaël Wagner, **GET** ; Zoé Favaro, **CESBIO**)

12h05-13h40 : Lunch buffet (for PhD students only)

SESSION 3 : Fluid dynamics

13h40-13h50 : Representation of convective clouds in climate models (Léopold Maheux, **CNRM**)

13h50-14h00 : Magnetic fields in stellar interiors (Jean Guislain, **IRAP**)

14h00-14h10 : A newly developed sea spray explicit microphysics scheme and its impact on tropical cyclones (Hélène Gonthier, **LAERO**)

SESSION 4 : Radiative transfer & energy

14h10-14h20 : Understanding Tropical Clouds and their climate impact with EarthCARE (Clarisse Nguyen, **CNRM**)

14h20-14h30 : 3D modelling of times series of satellite observations and energy balance of vegetation canopies with BALENO-DART (Aldric Gourrat, **CESBIO**)

14h30-14h40 : Illuminating planet formation with JWST (Paul Amiot, **IRAP**)

14h40-14h55 : Monitoring professional trips - an example of PhD assignment (Angèle Mouinié, OMP & Marie Devinat, **IRAP**)

14h55-15h00 : Quick session flash talks posters & stands

15h00-15h50 : Afternoon break (posters, quizz, stands)

15h50-16h05 : TOMBOLA ! Come one, come all for the last session :))

SESSION 5 : Chemistry of natural environments

16h05-16h15 : Can rocks remember lost continents and oceans ? Geological clues from northern Philippines using U-Pb-Hf isotopes (Florence Annette Labis, **GET**)

16h15-16h25 : Iron isotopes in the Pacific Ocean (Capucine Camin, **LEGOS**)

16h25-16h35 : Reconstructing the landscape of the Pyrenees at ~10 Ma (Monica Hernandez Leal, **GET**)

16h35-16h45 : Physical and Biogeochemical response of Sargassum Population to the Atlantic Meridional Mode (Gwenaël Martin, **CNRM**)

16h45-16h55 : Characterizing the chemistry of solar-type protostars (Carla-Louise Chadourne, **IRAP**)

16h55-17h00 : Final words & acknowledgments

