

	SOZPA	LATHIERE	SEPUICHRE	BOPP	COZIC	CAUD	MARTIN	BEKI	MARCHAND	ONISHI	SAVARINO	CALLON	PHD PaleoX	Research Engineer	Assistant Engineer	M2 isotopes	M2 modelling	M2 mediation	Collab. J. Le Pennec (IRD-LMVI)	Collab. H. Guillou (CEA-LSCE)
<b>Coordination (S. Szopa)</b>																				
<b>Axis 1 - Reconstruction of the Cenozoic Era conditions</b>																				
<b>WP1 Isotopes analysis of Cenozoic volcanic deposits (resp. E. Martin)</b>																				
Evaluation of the chronostratigraphy for Cappadoce / Establishment of the sampling strategy																				
Sampling of turkish deposits																				
sulphate extration and purification																				
O- and S- isotope measurments of turkish deposits																				
2D atmospheric modelling - Discussion of the representativity of volcanic isotopes																				
Altiplano Field exploration																				
Altiplano Field tephrochronology																				
Sampling of Altiplano deposits																				
Sulphate extraction and purification of Altiplano deposits																				
O- and S- isotope measurments																				
2D atmospheric modelling - Discussion of the representativity of volcanic isotopes																				
<b>WP2 Collection of physical Cenozoic conditions (resp. P. Sepulchre)</b>																				
Design of the 5 past scenarios (SST, insolation, Land surface types, coastline for each simulation, LL_GHG)																				
<b>Axis 2 - Development for past pristine atmospheres</b>																				
<b>WP3 Chemistry Model (resp. S. Szopa)</b>																				
Full tropo and strato model to test on present day conditions																				
Present day climatology to be compared with observations																				
Preindustrial climatology to be compared with observations and to multimodel experimnt (few data)																				
Evaluation of the model performance for present-day and preindustrial conditions																				
<b>WP4 New natural emissions (resp. J. Lathière)</b>																				
Evaluation of Biogenic emission range (from ORCHIDEE) for each scenario																				
Evaluation of Oceanic emission range (from PISCES) for each scenario																				
Evaluation of Wildfires emission range (from litterature and collaboration) for each scenario																				
Sensitivity studies to Natural emissions																				
<b>Axis 3 - Cenozoic atmospheric chemistry simulations</b>																				
<b>WP5 Paleo chemistry-Climate simulations (resp. S. Szopa)</b>																				
Last Glacial Maximum Simulation																				
Eemian Simulation																				
Mid-Pliocene Simulation																				
Optimum Miocene Simulation																				
Paleocene-Eocene Thermal Maximum Simulation																				
Analysis of the simulations, realism of the results, comparison with previous study and ISOTOPE ANALYSIS, evolution of oxidizing capacity throughout time																				
Climatologies of 3D distribution of reactive compounds and corresponding surface UV radiation distributed																				
<b>WP4 Earth System Feedbacks (resp. S. Szopa)</b>																				
Simulation of the climate feedback due to composition change (ESM forced by WP5 concentrations) for each of the 6 past conditions																				
Quantification of chemistry effect on climate																				
IPSL-CM5 model with interactions between: Climate and 3D atmospheric N2O, CH4, O3/Chemistry and terrestrial biosphere/Atm Chemistry and marine biogeochem																				
Simulation with the IPSL-CM5 model first with all the couplings for hot climate conditions (100 yrs + 1base line 100yr)																				
Quantification of the feedbacks																				
<b>Dissemination/Outreach</b>																				