

Workshop on developing Python frameworks for earth system sciences



28 – 29 November 2017

Programme

Tuesday 28 November		
11:00-11:10	Workshop opening	Florian Pappenberger (ECMWF)
11:10-11:20	Workshop housekeeping	Stephan Siemen (ECMWF)
11:20-11:40	Setting the scene	Baudouin Raoult (ECMWF)
11:40-12:00	xarray: N-D labeled arrays and datasets in Python	Stephan Hoyer (Google Research)
12:00-12:20	Python based Data Science on Cray platforms	Rob Vesse (Cray Inc)
12:20-12:30	Python in the Copernicus Climate Change Service context	Cedric Bergeron (ECMWF)
12:30-12:40	Metview and Python - what they can do for each other	Iain Russell (ECMWF)
12:40-13:00	A common data model approach to NetCDF and GRIB data	Alessandro Amici (B-Open)
13:00-14:00	Lunch break	
14:00-14:20	MetPy: Community-driven Meteorological Analysis Tools in Python	Ryan May (University Corporation for Atmospheric Research/Unidata)
14:20-14:40	MetWork, an open source meteorological framework to build our projects of tomorrow	Fabien Marty (Météo France)
14:40-15:00	EPyGrAM: A Python package to handle meteorological fields from various formats	Alexandre Mary (Météo France)
15:00-15:20	The SciTools GitHub organisation: a history	Bill Little and Philip Elson (Met Office)
15:20-15:50	Coffee break	
15:50-16:10	ClIMAF (Climate Model Assessment Framework)	Jérôme Servonnat (LSCE – IPSL)
16:10-16:30	ESMValTool and PRIMAVERA: making climate metrics available for everyone	Javier Vegas-Regidor (Barcelona Supercomputing Center)
16:30-16:50	Birdhouse: Tools to support Web Processing Services in Climate Science	Carsten Ehbrecht (DKRZ)

Workshop programme - continued

16:50-17:10	The Community Intercomparison Suite (CIS): an open-source toolbox	Duncan Watson-Parris (University of Oxford)
17:10-17:20	Outlook to working groups on second day	Stephan Siemen (ECMWF)
19:00	<i>Dinner at Carluccio's</i>	
Wednesday 29 November		
09:30-09:45	Introduction to the day / working groups	Stephan Siemen (ECMWF)
09:45-10:30	Working group 1 – Deploying and packaging Python frameworks (provisional title)	
10:30-11:00	<i>Coffee break</i>	
11:00-11:20	Pytroll: Open Source, Community Driven Earth Observation Data Processing in Python	Martin Raspaud (SHMI)
11:20-11:40	Operational satellite image generation with Pytroll	Panu Lahtinen (FMI)
11:40-12:00	Unifying verification through a Python-wrapped Suite of Tools	Tara Jensen (NCAR)
12:00-12:20	Using Python to its full potential	Leif Denby (University of Leeds)
12:20-13:00	Working group 2 – Handling Big Data in Python (provisional title)	
13:00-14:00	<i>Lunch break</i>	
14:00-15:30	Working group 3 – Interoperability and common data structures	
15:30-16:00	<i>Coffee break</i>	
16:00-16:30	Discussion and summary of workshop	
16:30	Workshop closure	