



Sunday 28th August, 8:30 am to 5:30 pm.

Venue: Palacinema, Locarno, Switzerland

Course title: Precipitation nowcasting in the wild

Learning objectives:

1. For practitioners, learn how to make better precipitation nowcasting.
2. For developers, learn how to contribute to open-source software projects.
3. For the community, discuss and draft a development roadmap for pysteps.

Course description:

The main goal of this course is to focus on *practical aspects of nowcasting*, for both users (how to make better nowcasts) and developers (how to contribute to an open-source project). Hence, the course will combine theory with hands-on sessions based on the open-source library pysteps.

This course also offers an opportunity to gather the nowcasting community around pysteps to discuss challenges and future developments.

Teachers:

Daniele Nerini (chair) - Seppo Pulkkinen - Andres Perez-Hortal - Ruben Imhoff - Lesley De Cruz - Aitor Atencia - Loris Foresti - Alan Seed.

Program:

Time	Content	Speaker/Chair	Duration
08:30	Course registration opens.		30 mins
09:00	Precipitation nowcasting in the wild <ul style="list-style-type: none">• Design and operation of a nowcasting system• Tips and traps• User requirements• BoM study case• RMI study case	Alan, Lesley	1 hour

10:00	Coffee break		30 min
10:30	<p>Hands-on session “users”</p> <ul style="list-style-type: none"> • Overview of pysteps • Install the package • Read data • Run nowcasts (deterministic & ensembles) • Forecast verification • Visualisation 	Seppo, Ruben	2 hours
12:30	Lunch break		1 hour
13:30	<p>Hands-on session “developers”</p> <ul style="list-style-type: none"> • Contribute to pysteps • Git flow • Best practices • Test the code • Document the code 	Andres, Aitor	2 hours
15:30	Coffee break		30 min
16:30	<p>The pysteps development roadmap</p> <ul style="list-style-type: none"> • Ongoing and future developments • Role of machine learning methods • Main research topics in nowcasting • 1-2 presentations by participants (if any) 	Loris	1 hour
17:30	Closing time.		