



In collaboration with:



INGV – Workshop



Tsunami Warning @ Stromboli: Observations, Modelling, Hazard, Forecasting

October 05-07, 2024 | Stromboli Island, Italy



Time Table Naples-Stromboli-Naples + Meeting Agenda			
Day	Local time	What	Where
04 October	20:00	Ferry Departure	Naples harbour, Molo Calata Porta di Massa
05 October	06:00	Ferry Arrival and transportation to the hotels	Stromboli
	08:00-10:00	Welcome breakfast and Registration	Workshop venue
05 October, Session 1 - Background Chairs: <i>Mattia de' Michieli Vitturi, Stefano Lorito (INGV), Giorgio Lacanna (University of Firenze)</i>			
05 October	11:00-11:40	Introduction to Stromboli volcano and its monitoring and warning system, and its enhancement and harmonization in the frame of Mauro Coltelli (Head of Eolian Islands Monitoring Centre, INGV)	Workshop venue
	11:40-12:10	The CPA/INGV/Uni Agreement for monitoring and warning enhancement and harmonization <i>Eugenio Privitera (Project Coordinator and Volcanic Hazard Center Coordinator, INGV)</i>	
	12:10-12:40	Monitoring and modeling slope instability at Stromboli volcano <i>Federico Di Traglia (INGV), Daniele Casalbore (La Sapienza University, Rome)</i>	
	12:40-13:00	Tsunami deposits at Stromboli volcano and their frequency of occurrence <i>Marjia Voloschina (University of Pisa)</i>	
	13:00-13:10	CAT-INGV: The Italian NEAMTWS Tsunami Service Provider <i>Alessandro Amato (Head of CAT-INGV)</i>	
	13:10-13:20	Tsunami Resilience Unit at IOC-UNESCO <i>Denis Chang Seng (UNESCO)</i>	
	13:30-14:15	Lunch break	
	14:15-15:15	The Tsunami Warning System in Stromboli <i>Giorgio Lacanna (University of Firenze), Maurizio Ripepe (University of Firenze)</i>	
	15:15-15:30	Tsunami risk management in Stromboli <i>Domenico Mangione (Italian Civil Protection)</i>	
	15:30-15:45	Ongoing and Future developments for Tsunami Monitoring in Stromboli <i>Alessandro Amato (Head of CAT-INGV)</i>	
	15:45-16:15	Discussion	
16:15-16:45	Coffee break		
	16:45	Walk towards the Harbour	
	17:15-17:45	Bathymetric Drone demonstration	INGV Info

			Center
	18:00-20:00	Boat trip	Stromboli
	21:00	Dinner	Workshop venue
06 October, Session 2 - Observations and Monitoring Chairs: <i>Alberto Armigliato</i> (University of Bologna), <i>Federico Di Traglia</i> , <i>Fabrizio Romano</i> (INGV)			
06 October	09:00-10:00	Geophysical Sensors and Volcano Monitoring in Stromboli <i>Massimo Orazi, Dario Delle Donne, Flavio Cannavò</i> (INGV), <i>Giorgio Lacanna, Maurizio Ripepe, Teresa Nolesini</i> (University of Firenze)	Workshop venue
	10:00-10:45	Five years of operations of the tsunami monitoring and early warning system in the Krakatau's islands <i>Semeidi Husrin</i> (BRIN, Indonesia)	
	10:45-11:15	Coffee break	
	11:15-12:00	Japan's experience with volcanic and landslide tsunami warning systems <i>Taro Arikawa</i> (Chuo University, Japan)	
	12:00-12:45	Development of Volcanic Tsunami Threat Level Database for New Zealand <i>Bill Fry & Aditya Gusman</i> (GNS, New Zealand)	
	12:45-13:30	Real-time Tsunami Forecast Response to an Unexpected Volcanically-generated Event <i>Diego Arcas</i> (NOAA, US)	
	13:45-14:30	Lunch break	
	14:30-15:15	Topography and rheology effects on landslide-generated tsunamis in multilayer models: application to hazard assessment in Mayotte <i>Anne Mangeney</i> (IPGP, France)	
	15:15-16:00	Tsunami risk mitigation by landslide monitoring and early warning in Norway <i>Lene Kristensen</i> (NVE, Norway)	
	16:00-16:45	Tsunamigenic landslides in Greenland - insights from cases <i>Kristian Svennevig</i> (GEUS, Denmark)	
	16:45-17:15	Coffee break	
	17:15-17:35	Recent morphological evolution of Sciara del Fuoco and the 2022 tsunamigenic collapse episodes <i>Tullio Ricci</i> (INGV), <i>Riccardo Civico</i> (INGV)	
17:35-18:05	Seismological studies of volcano and landslide activity – from a		

		distance <i>Göran Ekstrom</i> (Columbia University, US)	
	18:05-19:45	Panel on observations, monitoring <u>Chair:</u> <i>Mauro Coltelli</i> (INGV), <i>Gaetano Festa</i> (University of Naples) <u>Panelists:</u> <ul style="list-style-type: none"> • <i>Daniele Casalbore</i> (La Sapienza University, Rome) • <i>Thorne Lay</i> (University of Santa Cruz, US) • <i>Anne Le Friant</i> (IPGP, France) • <i>Teresa Nolesini</i> (University of Firenze) 	
	21:00	Dinner	Restaurant “Da Luciano”
07 October, Session 3 - Modeling and Forecasting Chair: <i>Mattia de’ Michieli Vitturi</i> (INGV), <i>Patrick Lynett</i> (University of Southern California)			
07 October	09:00-09:45	Modeling pyroclastic avalanches and related tsunamis, and subsequent probabilistic tsunami hazard mapping at Stromboli <i>Tomaso Esposti Ongaro, Alessandro Tadini and Andrea Bevilacqua</i> (INGV)	Workshop venue
	09:45-10:15	Tsunamigenic sources <i>Carl Bonnevie Harbitz</i> (NGI, Norway)	
	10:15-10:45	The challenge of volcanic tsunami hazard assessment and risk mitigation <i>Raphael Paris</i> (CNRS, France)	
	10:45-11:15	Coffee break	
	11:15-13:30	Panel on Tsunami generation from volcanic sources <u>Chair:</u> <i>Mohammad Heidarzadeh</i> (University of Bath, UK) <u>Panelists:</u> <ul style="list-style-type: none"> • <i>Jens Karstens</i> (GEOMAR, Germany) • <i>Francesco Latino Chiocci</i> (Head of Great Risk Commission) • <i>Filippo Zaniboni</i> (University of Bologna) • <i>Aditya Gusman</i> (GNS, New Zealand) 	
	13:45-14:30	Lunch break	
	14:30-15:00	Modeling and numerical simulation of landslide-generated tsunamis <i>Manuel Jesus Castro</i> (University of Malaga, Spain)	
	15:00-15:30	Modeling tsunamis generated by various volcanic processes: overview and case studies <i>Stephan Grilli</i> (University of Rhode Island, US)	
	15:30-16:45	Panel on tsunami modeling and forecasting <u>Chair:</u> <i>Alberto Armigliato</i> (University of Bologna) <u>Panelists:</u> <ul style="list-style-type: none"> • <i>Finn Løvholt</i> (NGI, Norway) • <i>Patrick Lynett</i> (University of Southern California, US) • <i>Kwok Fai Cheung</i> (University of Hawaii, US) • <i>Alessandro Romano</i> (Roma Tre University, Italy; IHCantabria, Spain) 	
	16:45-17:15	Coffee break	

07 October, Session 4 - Discussion, Wrapping-up, Roadmap for a Position Paper Chairs: <i>Alessandro Amato, Mauro Coltelli</i>			
	17:15-18:30	<u>Reports by Session/Panel Chairs:</u> <ul style="list-style-type: none"> • Present status of Tsunami Warning @Stromboli: <ul style="list-style-type: none"> ○ <i>Mattia de' Michieli Vitturi</i> ○ <i>Stefano Lorito</i> ○ <i>Giorgio Lacanna</i> • Present status of monitoring and TEWS: <ul style="list-style-type: none"> ○ <i>Alberto Armigliato</i> ○ <i>Fabrizio Romano</i> ○ <i>Federico Di Traglia</i> • Present status on Tsunami modeling: <ul style="list-style-type: none"> ○ <i>Mohammad Heidarzadeh</i> (University of Bath, UK) ○ <i>Alberto Armigliato</i> (University of Bologna) <p><u>Open Discussion</u></p> <p><u>Roadmap for a review paper</u></p>	Workshop venue
07 October	22:00	Transportation to the harbour and Ferry Departure	Stromboli
08 October	08:00	Ferry Arrival	Naples harbour, Molo Calata Porta di Massa

Google Meet link for people attending the workshop in Remote mode - please do not distribute further:

meet.google.com/ajv-nyri-kva

- Hotel La Sciara (workshop's venue), *Via Barnao, Stromboli*
<https://www.hotellasciara.it/>
- Hotel La Sirenetta, *Via Monsignor di Mattina, Stromboli*, <https://www.lasirenetta.it/>
- INGV Eolian Volcanoes Information Centre, *Via Marina, Stromboli*

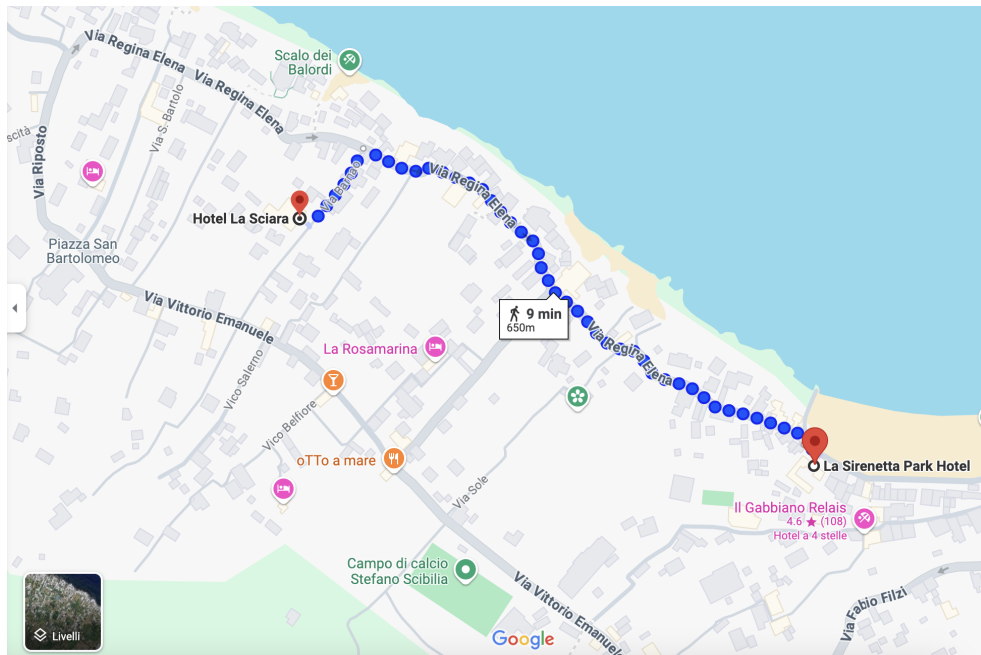


Figure 1 - How to reach the Hotel La Sciara from the Hotel La Sirenetta

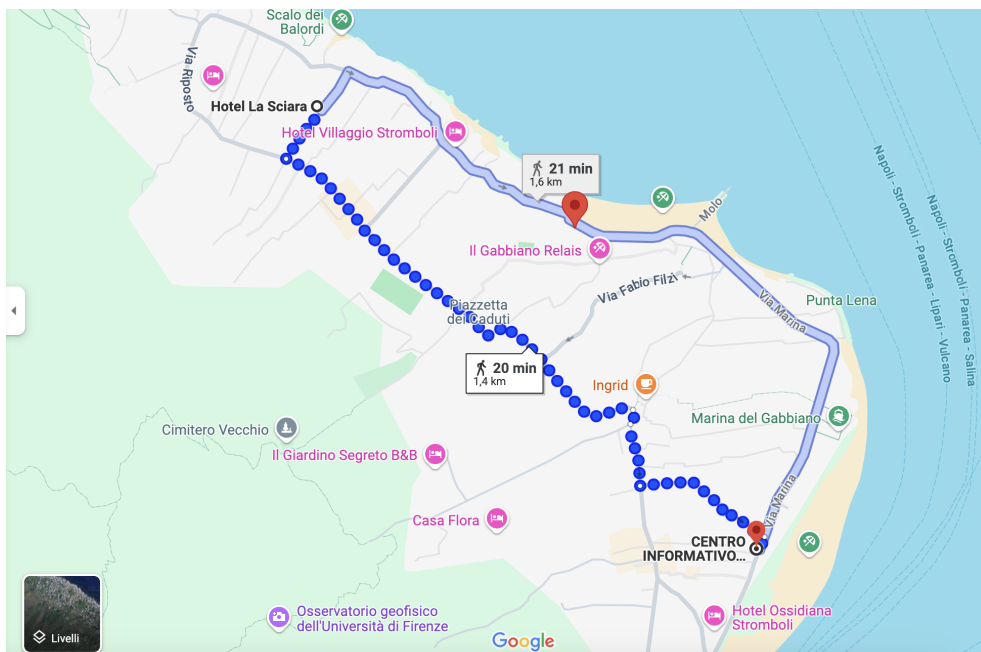


Figure 2 - How to reach the INGV Eolian Volcanoes Information Centre from the Hotel La Sciara