

2nd International Tsunami Field Symposium
Puglia (Italy) – Ionian Islands (Greece) 2008
IGCP Project 495
*Quaternary Land-Ocean Interactions:
Driving Mechanisms and Coastal Responses*



2nd INTERNATIONAL TSUNAMI FIELD SYMPOSIUM

OSTUNI – PUGLIA (Italy) and LEFKADA (Ionian Islands - Greece)

21-28 September 2008



University of Bari
Department of Geology and Geophysics

University of Salento
Department of Science of Materials



Universität zu Köln
Department of Geography

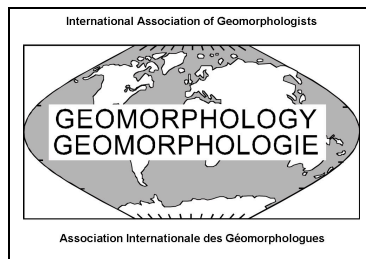
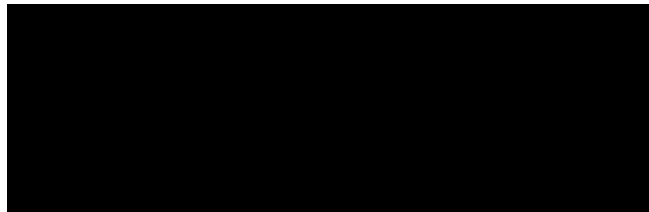
**Philipps-Universität
Marburg**
Faculty of Geography

Philipps



**Universität
Marburg**

International Year Planet Earth



**IAG - International Association of
Geomorphologists**
*AIG – Association Internationale des
Géomorphologues*

**INQUA Commission
on Coastal and Marine Processes**

INQUA Neotectonics subcommission

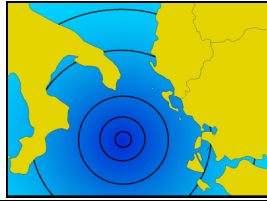


**AIGeo – Italian Association of Physical
Geography and Geomorphology**

**AMK – German Working Group on the
Geography of Coasts and Seas**



SIGEA – Italian Society of Environmental Geology



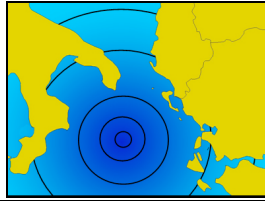
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Project 495

GENERAL PROGRAMME 21 – 28 September 2008

September 21, Sunday	
18.30 – 20.00	Registration in the Hotel Playa
20.00	Ice-breaker party in the Hotel Playa
September 22, Monday	
08.00	Registration
09.00	Welcome
09.30	Scientific Session
13.30	Lunch
15.00	Scientific Session
19.20	End of the day
	<i>Dinner free</i>
September 23, Tuesday	
08.30	Scientific Session
13.30	Lunch
14.45	Field trip
18.30	End of the day
19.00	<i>Social event in Ostuni</i>
September 24, Wednesday	
08.00	Field trip (Ionian side)
13.00	Lunch and Business Meeting
19.00	Back in Hotel
20.00	Conference Dinner
September 25, Thursday	
08.00	Field trip (Adriatic side)
13.00	Lunch
19.00	Arrival in Brindisi and departure for Igoumenitsa
September 26, Friday	
07.00	Arrival in Igoumenitsa
07.30	Departure for field trip
19.00	Arrival at Hotel Lefkas in Lefkada city
September 27, Saturday	
08.00	Field trip
19.00	Arrival in Igoumenitsa and departure for Brindisi
September 28, Sunday	
~10:00	Arrival in Brindisi



September 21, Sunday

18.30-20.00 Registration in the Hotel Playa (Villanova di Ostuni)

20.00 Ice-breaker party in the Hotel Playa

September 22, Monday

08.00-9.00 Registration

09.00-9.30 Welcome

09.30-13.00 Scientific Session

Topic 1: TSUNAMI GENERATION AND PROPAGATION

Chairman: Bruce Richmond

9.30 **The 20th February 1743 tsunamigenic earthquake in Apulia, Italy: investigation on the source from numerical tsunami modelling and geological evidences** Armigliato A., Tinti S., Tonini R., Pagnoni G., Gallazzi S., Manucci A., Zaniboni F., Mastronuzzi G., Pignatelli C., Sansò P.

9.50 **Discrimination of tsunami sources (earthquake or landslide) on the basis of historical data in Eastern Sicily and Southern Calabria** Gerardi F., Barbano M.S, De Martini P.M., Pantosti D.

10.10 **Investigation on Colliding Wave of Tsunami Run-ups in December 26th 2004 Indian Ocean Tsunami** Kongko W., Lavigne F., Paris R.

10.30-10.50 **Coffee Break**

Topic 2: TSUNAMI SEDIMENTS AND LANDFORMS

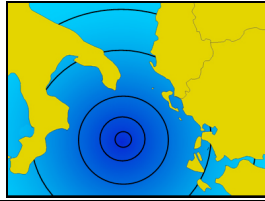
Chairman: Dieter Kelletat

10.50 **Sedimentological characteristics of the July 17, 2006 tsunami in South Java** Bahlburg H., Spiske M., Amijaya H., Weiß R., Piepenbreier J.

11.10 **High energy boulder deposition in Barranco and Furnas lowlands, western Algarve (south Portugal)** Costa P., Andrade C., Freitas M.C., Oliveira M.A., Taborda R., Da Silva C.M.

11.30 **Sedimentary signature of the December 26th 2004 tsunami along the north eastern shore of Banda Aceh: anisotropy of magnetic susceptibility (AMS) contribution to a better understanding of the tsunami wave train dynamic** Wassmer P., Schneider J.L., Lavigne F., Paris R.

11.50 **Identification of tsunami deposits and liquefaction features in the Gargano area (Italy): paleoseismological implication** De Martini P.M., Burrato P., Pantosti D., Maramai A., Graziani L., Abramson H.



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- 12.10 **A comparison of sediment eroded vs. deposited by the 15 Nov 2006 Kuril Island tsunami** MacInnes B.T., Bourgeois J.P., Kravchunovskaya T.K., Ekaterina A.
- 12.30 **Candidate tsunami deposit near Seattle, Washington state, USA** Martin M.E., Bourgeois J.P.
- 12.50 **Evaluation of tsunami flooding from geomorphological evidence in Bonaire (Netherland Antilles)** Pignatelli C., Scheffers A., Scheffers S., Mastronuzzi G.
- 13.30-15.00 Lunch
- 15.00-19.00 Scientific Session

Topic 2: TSUNAMI SEDIMENTS AND LANDFORMS

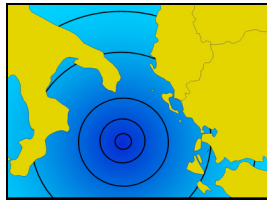
Chairman: Raphael Paris

- 15.00 **Tsunami deposits in the Siracusa coastal area (south-eastern Sicily)** Scicchitano G., Costa B., Di Stefano A., Longhitano S., Monaco C.
- 15.20 **Paleotsunami deposits in the Augusta Bay area (Eastern Sicily, Italy): combining onshore and offshore data** Smedile A., De Martini P.M., Barbano M.S., Bellucci L., Del Carlo P., Gerardi F., Pantosti D., Pirrotta C., Gasperini L., Polonia A.
- 15.40 **Historical tsunami events along the coast of Peru – sedimentology and dating** Spiske M., Piepenbreier J., Benavente C., Kunz A., Bahlburg H.
- 16.00 **20 years of palaeotsunami studies on coastal sandsheets: a review** Switzer A.D.
- 16.20 **Tsunami findings along the shores of the Eastern Ionian Sea – the Cefalonia case study (NW Greece)** Vött A., May S.M., Masberg P., Klasen N., Grapmayer R., Brückner H., Bareth G., Sakellariou D., Fountoulis I., Lang F.
- 16.40 **Variations in Tsunami Deposit Thickness: the Role of Pre-Existing Topography** Gelfenbaum G., Bruce J., Morton R., Moore A.

Topic 3: PALAEO TSUNAMI LANDFALLS – HISTORICAL AND GEOARCHAEOLOGICAL ASPECTS

Chairman: Hervé Regnauld

- 17.00 **Geological evidence of paleotsunamis at Torre degli Inglesi (northeastern Sicily)** Pantosti D., Barbano M.S., Smedile A., De Martini P.M., Gerardi F., Pirrotta C.
- 17.20-17.40 **Coffee Break**



**Topic 4: THE ROLE OF TSUNAMIS IN COASTAL GEOMORPHOLOGY
AND EVOLUTION**

Chairman: Hervè Regnauld

- 17.40 Boulder accumulations related to storms on the south coast of the Reykjanes Peninsula (Iceland) Etienne S., Paris R.
- 18.00 “Chevrons” are not mega-tsunami deposits – a sedimentologic assessment Weiss R., Bourgeois J.
- 18.20 New Technologies in coastal studies Abbate G., LEIKA spa
- 18.40 Tsunami from satellite: coasts monitoring through very high resolution images. Buonavoglia A., Marangi M., Planetek Italia srl
- 19.00 End of the day
Dinner free

September 23, Tuesday

08.00-13.30 Scientific Session

TOPIC 5: TSUNAMI MODELLING

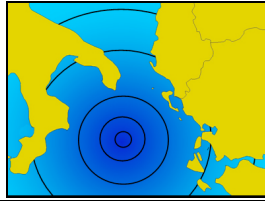
Chairman: Alessandra Maramai

- 08.30 Modelling of the Bengkulu Minor Tsunami Event, September 12, 2007, West of Sumatra, Indonesia Pranowo W.S., Kongko W.
- 08.50 Modelling sediment transport and deposition by the 2004 tsunami in Sumatra (Indonesia) Paris R., Poizot E., Fournier J., Cachao M., Etienne S., Morin J., Lavigne F., Wassmer P.
- 09.10 A terrestrial laser scanner based method to assess a tsunami wave inland penetration Pignatelli C., Damato B., Mastronuzzi G.
- 09.30 Three-dimensional large scale experiments on tsunamis generated by landslide along the coast of a conical island Molfetta M.G., Petrillo A.F., De Girolamo P., Pratola L., Di Risio M., Bellotti G., Aristodemo F., Panizzo A.

TOPIC 6: TSUNAMI HAZARD, VULNERABILITY AND RISK

Chairman: Daniela Pantosti

- 09.50 People Exposure and Land-use Damage Estimation causes by Tsunami using Numerical Modelling and GIS Approaches (Case Study: South Coast of Java – Indonesia) Khomarudin M.R., Strunz G., Ludwig R., Zoßeder K., Post J., Kongko W., Pranowo W.S.



- 10.10 **Four tsunami events in the Euro-Mediterranean region: analysis and reconstruction of the effects** Graziani L., Maramai A., Tinti S., Brizuela B.
- 10.30 **Tsunami Hazard Mapping, SW Jamaica** Rowe D.A., Degg M., France D., Miller S.
- 10.50 **Extreme events frequency and associated coastal damages along the coast of Salento (southern Italy).** Milella M., Pignatelli C., Sansò P., Saracino S.
- 11.10-11.30 **Coffee Break**

TOPIC 7: DIFFERENTIATION BETWEEN TSUNAMIS AND OTHER EXTREME EVENTS

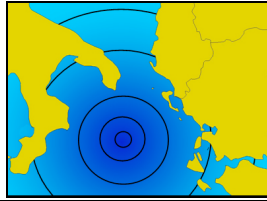
Chairman: Cesar Andrade

- 11.30 **Traces of Holocene extreme wave events within sediment traps along the coast of Bonaire (Netherlands Antilles)** Engel M., Brückner H., Kelletat D., Schäbitz F., Scheffers A., Vött A., Wille M., Willershäuser T.
- 11.50 **A review of the high energy events in the Gulf of Cadiz: tsunami vs. storm surges** Lario J., de Luque L., Zazo C., Goy J.L., Spencer C., Cabero A., Dabrio C., Borja F., Civis J., González-Delgado J.A., Borja C.
- 12.10 **Storms or Tsunamis? The case of boulder accumulations on the coasts of Brittany, western France** Regnaud H., Suanez S., Fichaut B.
- 12.30 **Recent Tsunami and Storm Wave Deposits, SE Hawaii** Richmond B.M., Jaffe B.E., Gelfenbaum G., Dudley W.C.
- 12.50 **Size of shoreline boulders moved and emplaced by recent hurricanes, Jamaica** Robinson E., Khan S., Rowe D.A., Coutou R.
- 13.10 **Wave-emplaced Coarse Debris and Mega-clasts in Ireland and Scotland: A Contribution to the Question of Boulder Transport in the Littoral Environment** Scheffers A., Kelletat D.

- 13.30-14.45 Lunch
- 14.45-18.30 Field trip
- 19.00 Social Event in Ostuni

September 24, Wednesday

- 08.00-19.00 Field trip (Ionian side)
- 13.00-14.00 Lunch and Business Meeting



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19.00 Back in Hotel
20.00 Conference Dinner

September 25, Thursday

08.00-19.00 Field trip (Adriatic side)
13.00-14.00 Lunch
19.00 Arrival in Brindisi and departure for Igoumenitsa

September 26, Friday

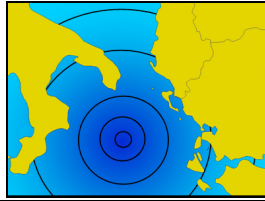
07.00 Arrival in Igoumenitsa
07.30 Departure for field trip
07.30-19.00 Field trip
19.00 Arrival at Hotel Lefkas in Lefkada city

September 27, Saturday

08.00-19.00 Field trip
19.00 Arrival in Igoumenitsa and departure for Brindisi

September 28, Sunday

~10:00 Arrival in Brindisi



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POSTER SESSION

- The sedimentary inventory of the 1755 Lisbon tsunami along the Gulf of Cádiz (southwestern Spain)** Reicherter K. and Tsunami group
- Tsunamites in lagunas: remains of the 1522 Almería earthquake (western Mediterranean)** Reicherter K., Becker-Heidmann P.
- In search of the 479 BC Tsunami and its sediments in the Thermaikos Gulf area (northern Greece)** Rössler S., Reicherter K., Papanikolaou I., Roger J. and Tsunami Group
- Using the historical record and geomorphological setting to identify tsunami deposits in the southwestern coast of Algarve (Portugal)** Oliveira M.A., Andrade C., Freitas M.C., Costa P.
- Morphological data and the definition of tsunamogenic areas between Apulia (Italy) and Ionian Islands (Greece)** Mastronuzzi G., Caputo R., Di Bucci D., Fracassi U., Pignatelli C., Sansò P., Selleri G.
- Traces of an ancient tsunami event on the Archangelos coast (Southern Peloponnese, Lakonia, Greece)** Federici P.R., Rodolfi G.
- Hydrodynamical equations to evaluate extreme meteorological events impact along Adriatic coast of Apulia (Southern Italy)** Piscitelli A., Pignatelli C., Mastronuzzi G.
- Laser Scanner survey to rebuild large boulder accumulated by extreme event in Torre Squillace (Southern Apulia – Italy)** Pignatelli C., Marsico A.
- A web site for historical tsunamis of Salento (Apulia, Italy)** Sansò P., Bianco F., Cataldo R., Vitale A.
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