



ManandKarst2022



INTERNATIONAL SCIENTIFIC CONFERENCE
September 12th - 17th Custonaci, Italy

P R O G R A M





PROGRAM

MONDAY 12 SEPTEMBER

8.30 - Registration

8.30 - Opening Exhibition rooms: Stands, Posters and SpeleoMedit (location City Hall)

Conference Hall “Stalla della Madonna”

9.00 - **Welcome of the authorities to the participants**

* Giuseppe Morfino	<i>Mayor of Custonaci</i>
* Alberto Samonà	<i>Assessore Regionale dei Beni Culturali e dell'Identità Siciliana</i>
* Franco Fazio	<i>Dirigente Generale dei Beni Culturali e dell'Identità Siciliana,</i>
* Gian Pietro Giusso Del Galdo	<i>Direttore Dipartimento di Scienze Biologiche, Geologiche e Ambientali,</i>
	<i>University of Catania.</i>
* Mauro Corrao	<i>Presidente Ordine Geologi di Sicilia</i>

Presentation of the event

* **Rosario Ruggieri** *President of CIRS Ragusa*

Opening of the Sessions

I SESSION: Karst geomorphology

Conveners: Peter Malik & Tadej Slabe

9.30 - **Intercultural approach to multilingual terminology in the karstology domain.**
Larisa Grčić Simeunović, Kristian Pintar & Marica Mamut.

9.45 - **Degradation of the karst environment.**
Mario Parise, Umberto Samuele D'Ettore & Isabella Serena Liso.

10.00 - **Typical large scale karst landscape dolines in the area between Al-Abyar and Benina territories, Cyrenaica, NE Libya.**
Mohamed S.E. El faitouri, Saad K. Elebaidi, Khalifa A. Ashahomi, & Ahmed M. Muftah

10.15 - **Distribution, typology and hydraulics of dolines in Salento (Southern Italy).**
Isabella Serena Liso & Francesca Lagna

10.30 - **Morphometric Analysis of Drainage Patterns from Integration of DEM, STRM and GIS in Central Part of Al Jabal Al Akhdar, NE Libya.**
Mostafa F. Mostafa. Muftah T. Al Brouki & Hassan Z. El Shaafi.

10.45 - **Pleistocene marine terraces along the Siracusa coastal area (southeastern Sicily) and correlations with the karst processes.**
Carmelo Monaco, Giovanni Barreca, Serafina Carbone, Rosolino Cirrincione, Salvatore Costanzo, Gambino Salvatore, Rosario Ruggieri & Giovanni Scicchitano.

11.00 - **Karst geomorphology of Cyrenaica: Second phase of Research on Al Jabal Al Akhdar, North-East Libya.**
Rosario Ruggieri, Antonio Bambina, Antonello Ingallinera, Gianbattista Mazzara, Abdelsalam Elshaafi, Awad Bilal, Fathi Salloum & Saad El-Shari.



11.15 - **Topographical and geomorphological survey of "Zubbia Cane" Cave, within the framework of a project to expand the Nature Reserve "Grotta di Sant'Angelo Muxaro", (Sant'Angelo Muxaro - Agrigento).**

Giovanni Bruno, Giovanni Buscaglia, Daniele Gucciardo, Marco Mariano Interlandi, Angelo Spoto & Marco Vattano.

11.30 - Coffee break

II SESSION: Speleology and Cave conservation

Conveners: Jim LaMoreaux & Rosolino Cirrincione

11.45 - **Exploring, practicing, knowing, and safeguarding: living and learning caves as a whole.**
Philippe Fleury.

12.00 - **Karst system Malafollia - La Stretta (Castelvetrano, south-western Sicily): underground traces of the 1968 Belice's earthquake.**
Roberto Grammatico, Luigi Fontana & Rosario Bonventre.

12.15 - **Research and conservation of caves in the Plitvice Lakes National Park.**
Kazimir Miculinić, Nikola Markić, Sanja Žalac & Andrijana Brozinčević.

12.30 - **Springs and caves treasury at the edge of Mesopotamia.**
Zoran Stevanović & Aleksandra Maran Stevanović.

12.45 - **Speleological explorations on the slopes of Mt. Furci and Serra Liotta in the landscape of Sant'Agata di Militello (ME).**
Innuso F., Piazza G., Pirruccio A., Priolo G.*, Scalisi V., Spitaleri G. & Zito V.

13.00 - **Speleological explorations on the Mt. Etna, two small, interesting caves: Pozzo del Bosco di Centorbi e Grotta Rasa.**
Balsamo Antonio, Priolo Giuseppe* & Raciti Salvatore.

13.15 - **Eisraffer - a research project of german caving group in "Schwarzmooskogel - Ice-Cave" in Austria: Setup, installation, first results of changes of ice due to climatic change and other reasons.**
Wieland Scheuerle.

13.30 - **The importance of marine caves and coastal areas in Albania and the impact regarding national and international security.**
Mirela Metushaj

13.45: Lunch break

15.00 - Excursion Monte Cofano Nature Reserve

**20.30 - Welcome party (Municipality terrace garden)
Oriental dance show by Mazara Kasia & Poma Patrizia.**



TUESDAY 13 SEPTEMBER

Conference Hall “Stalla della Madonna”

III SESSION: Karst hydrogeology and water protection

Conveners: Metka Petrič & Carmelo Monaco

- 9.15 - **Land cover and land use analysis during climate change for coastal karst catchment area in Zadar County, Croatia.**
Leskovar Karlo, Loborec Jelena, Biondić Ranko & Meaški Hrvoje.
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- 9.30 - **Dragon Eye - an extreme karst lake environment under pressure of climate variability.**
Marija Marguš, Milan Čanković, Sarah Mateša, Iva Dominović, Niki Simović & Irena Ciglencečki.
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- 9.45 - **The influence of the Plitvice watercourse on the karst aquifer: The Case Study from the National Park Plitvice Lakes, Croatia.**
Meaški Hrvoje, Biondić Ranko, Mrakužić Petar, Leskovar Karlo, Loborec Jelena & Kapelj, Sanja.
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- 10.00 - **Karst Hydrology of Mt. Bernadia area (Udine, Italy).**
Calligaris Chiara, Cappoia Eleonora, Finocchiaro Furio, Manca Paolo, Ponton Maurizio, Potleca Michele & Zini Luca.
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- 10.15 - **Multivariate analysis of water quality in the Ayn Daboussiah and its impact on karst phenomena in Al Jabal Al Akhdar Region of NE Libya.**
Saad K. Elebaidi, Ahmed M. Muftah & Mohamed S.E. El Faitouri.
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- 10.30 - **Geoinformation of Karstic resources in the Southern Mountainous Region of Albania.**
Ermira Jashiku.
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- 10.45 - **Hydrogeological concept of the coastal karst spring Golubinka, a case study from the Dinaric karst, Croatia.**
Josip Terzić, Maja Briški, Ivana Boljat, Božo Padovan, Jasmina Lukač Reberski & Patricia Živković.
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- 11.00 - Coffee break**
- Conveners: Antonella Cinzia Marra & Zoran Stevanovic
- 11.15 - **Groundwater quality of the Bokanjac-Poličnik catchment area near Zadar, Croatia.**
Biondić Ranko, Meaški Hrvoje, Francetić Lucija & Tošić Igor.
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- 11.30 - **Karst Water Origin and Interactions in the Alazani Valley (East Georgia).**
Peter Malik, George Melikadze, Sopio Vepkhvadze, Genadi Kobzev, Ludmila Glonti & Tornike Chikadze.
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- 11.45 - **Impact of hydrological conditions on the regime of groundwater salinization in water abstraction sites in the Bokanjac - Poličnik area near Zadar, Croatia.**
Radišić Maja, Bojana Horvat, Željka Klemar, Željko Pekaš & Josip Rubinić.
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- 12.00 - **Examples of good practices of cooperation between administrative bodies and research institutions in the process of protecting karst water resources.**
Metka Petrič, Nataša Ravbar, Blaž Kogovšek, Marina Gacin & Peter Frantar.



12.15 - **The Flow Conditions in the Epikarst Zone of a Karst Aquifer. Case Study: Suva planina Mt., East Serbia.**
Branislav Petrović.

12.30 - **History of contamination load and its remediation on a karstic site of Srđce in Devínska Nová Ves (Slovakia).**
Peter Malik & Jozef Kordík.

12.45 - **Detection of microplastic contamination in Italian karst aquifers and caves.**
Ferdinando Didonna, Vittorio Catani, Francesco Fiorillo, Francesca Lecce, Guido Leone, Francesco Maurano & Maria Sighicelli.

13.00 - Lunch break

IV SESSION: Archaeology and paleontology in karst and artificial caves

Conveners: Rosalda Punturo & Esam O. Abdulsamad

14.00 - **The Rock Mosques of Medieval Sicily in the Mediterranean Context.**
Giovanni Distefano.

14.15 - ***Ad Infera limina*. The man and the Cave. Research, protection and valorization perspectives.**
Domenica Gulli.

14.30 - **The Asphalt Mines and industrial archaeology: The Example of Bitumen Industrial Platform of Art.**
Vincenzo Cascone.

14.45 - **A tentative application of remote sensing in studying palaeontological karstic sites.**
Antonella Cinzia Marra, Anselme Muzirafuti, Stefania Lanza & Giovanni Randazzo.

15.00 - **Man and Karst in Perak (North-Western Malaysia).**
Ruggieri Rosario, Bambina Antonio, Galletti Iolanda, Agosta Gianmarco, Gintoli Roberto, Zainul Fikri Mohd Idris, Muhammad Riduwan Ali, Syed Nu'aim Syed Hamzah, Muhammad Hariz Ibrahim & M. Nor Saiful.

15.15 - **Ritual use of caves in interior highlands of Papua New Guinea.**
Henry Dosedla.

15.30 - **The Man, Nature and Artificial Sacred Caves.**
Samvel M. Shahinyan, Boris Gasparyan & Armen Davtyan.

15.45 - **Isonzofront: the caves of Karstgebeit.**
Alessio Fabbicatore.

16.00- Excursion: Karren, Stone forest of Mount Sparagio and Purgatorio Polje.



WEDNESDAY 14 SEPTEMBER

Conference Hall “Stalla della Madonna”

V SESSION: Vulnerability, protection and fruition of karst landscapes and caves.

Conveners: Luca Zini & Avi Burg

- 9.00 - **Microplastic pollution in two karst subalpine lakes, Slovenia.**
Lara Valentić, Oliver Bajat & Tanja Pipan.
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- 9.15 - **Motivation and perception of visitors to Apuseni Nature Park (Romania).**
Zoltán Imecs, András Máthé, Balázs Nagy, László Mari, Balázs Kohá & Tamás Telbisz
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- 9.30 - **Relationship between fabric, tectonic features and diagenetic structures at the multi-scale in Heterogeneous Carbonate Reservoir Rocks: Examples from the Hyblean Plateau (SE Sicily, Italy).**
Rosanna Maniscalco, Eugenio Fazio, Rosalda Punturo, Rosolino Cirrincione, Agata Di Stefano, Salvatore Distefano, Martina Forzese, Gabriele Lanzafame, Giusy Simona Leonardi, Sergio Montalbano, Alessandra Giovanna Pellegrino, Antonino Raele and Giuseppe Palmeri.
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- 9.45 - **Park-local people-tourist relationships in karst national parks, the presentation of an international project.**
Tamás Telbisz, László Mari, Margit Kőszegi, Zsolt Bottlik, Tibor Standovár, Péter Gruber, Petra Radeljak-Kaufmann, Ivan Šulc, Neven Bočić, Alena Gessert, Janetta Nestorová-Dická, Jelena Čalić, Jelena Kovačević-Majkić, Jovana Brankov, Jasna Micić, Zoltán Imecs, András Máthé & Christos Stergiou.
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- 10.00 - **Concentration of ²²²Rn and CO₂ in Modrič Cave atmosphere and its implications for the responsible cave management.**
Robert Lončarić, Maša Surić Vanja Radolić & Igor Miklavčič.
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- 10.15 - **Evaluation of the Carrying Capacity of the Monello cave for the management of a integral nature reserve.**
Salvo Costanzo, Rosolino Cirrincione, Carmelo Monaco, Giovanni Signorello & Giovanni Scicchitano.
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- Conveners: Giovanni Scicchitano & Philippe Fleury
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- 10.30 - **Protected karst coastal areas of the Albanian Riviera.**
Merita Dollma.
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- 10.45 - **Research and conservation of caves in the Plitvice Lakes National Park.**
Kazimir Miculinić, Nikola Markić, Sanja Žalac & Andrijana Brozinčević.
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- 11.00 - Coffee break**
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- 11.15 - **Karstic Ecosystems of Vloa Region and their management.**
Fatlinda Shkurti & Albina Sinani.
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- 11.30 - **Protection of Karst Areas in Gjirokastra Region.**
Albina Sinani & Fatlinda Shkurti.
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- 11.45 - **Visitor perception of landscape values in Karst National Parks – The Case of Krka Np, Croatia.**
Ivan Šulc, Tamás Telbisz, László Mari & Petra Radeljak Kaufmann.
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- 12.00 - **Cave air CO₂ variations in Modrič Cave and implications for palaeoclimate studies.**
Maša Surić & Robert Lončarić.



VI SESSION: Karst hazards, geological and geophysical investigations

Conveners: Giovanna Pappalardo & Mario Parise

12.15 - Hazards in Al-Coefiah karst terrain, Benghazi, NE Libya.

Entisar El-Rayani, Fathi M. Salloum, Abdelsalam Elshaafi & Awad Bilal.

12.30 - Karst and ecosystem service in the large limestones Massif (T₃-J₁) of Mali I Thatë-Rakicka, Southern Albania.

Ermiona Braholli.

12.45 - Karst cavities investigation in Sidi Al-Hemri area, using Geoelectric-Resistivity Survey.

Saad M. El-Shari.

13.00 - Geophysical Surveys for the Identification of Caves:

The case study of "Micio Conti Lava Tube" - San Gregorio di Catania (Sicily).

Grassi Sabrina, Morreale Gabriele, Latino Federico,
Sturiale Giovanni & Imposa Sebastiano.

13.15 - Importance of Darnah Formation for Karstification in Al Jabal Al Akhdar, Northeast Libya: its diagenetic process and burial history.

Moftah H. El Shawaihdi.

13.30 - New collapse, old story: Raveo's sinkhole occurred on 21st April 2022.

Alice Busetti, Chiara Calligaris, Michele Ferneti, Emanuele Forte & Luca Zini.

13.45 - Lunch break

15.00 - City Hall

POSTER SESSION

Conveners: Ferdinando Didonna & Francesco Maurano

Status of Knowledge and proposal for the protection of the alluvial sinkholes of Esine in Val Camonica (Brescia, Italy).

Rosario Abbate, Luciano Clarari & Roberto Ziglioli.

Braknoot Karst Lakes, Cyrenaica, Ne Libya: a Geological Overview.

Esam O. Abdulsamad^a & Mansour M. Elbabour.

The Grand tour of the evaporitic karst areas of western Sicily: a geotourist itinerary of knowledge and enhancement.

Vincenza Messana & Giulia Casamento.

The "Camerota's Charter" best practices in AMP.

Pietro Vuolo, Francesco Maurano & Ferdinando Didonna.

Cave mines of the Vis island.

Branko Jalžić & Natalija Sudar.



Hawa Fteah Cave in Al-Jabal Al-Akhdar area, NE Libya:

One of the oldest caves in North Africa And the Mediterranean Basin.

Abdelsalam Elshaafi, Awad Bilal, Fathi Salloum, Rosario Ruggieri & Muftah H. El Shawaihdi.

Climate change scenarios and global warming affect a dissolution in karst systems kinetics?

Dino di Renzo, Elena Marrocchino, Daniel Nieto, Emanuele Lodolo, Rosalda Punturo & Carmela Vaccaro.

Karst surface rock relief and developing models.

Martin Knez & Tadej Slabe.

Highlights on some important karsts in Al Jabal Al Akhdar, Northeastern Libya: a Protection Alert.

Ahmed M. Muftah & Mohammed F. El Hassi.

Pietra Pece (Pitch Stone): historical and geological memory of the Hyblean plateau (South-eastern Sicily).

Punturo Rosalda, Indelicato Valeria, Cirrincione Rosolino, Maniscalco Rosanna & Cassarino Silvio.

Physical-mechanical characterization of carbonate rocks used for the reconstruction of Saint Nicholas Cathedral in Noto (south-eastern Sicily, Italy).

Giovanna Pappalardo & Mineo Salvatore.

15.30: Visit of Grotta della Clava

20.30: Gala party with:

- * Visit of ancient rural village of arts and crafts of the Grotta Mangiapane.
- * Show of Folk Group Cala Bukuto.

POST CONFERENCE EXCURSIONS

Thursday 15 September: Whole day excursion

- * Levanzo and Favignana Islands (Grotta del Genovese - Tonnara ex Florio - Ancient Quarries)

Friday 16 September: Whole day excursion

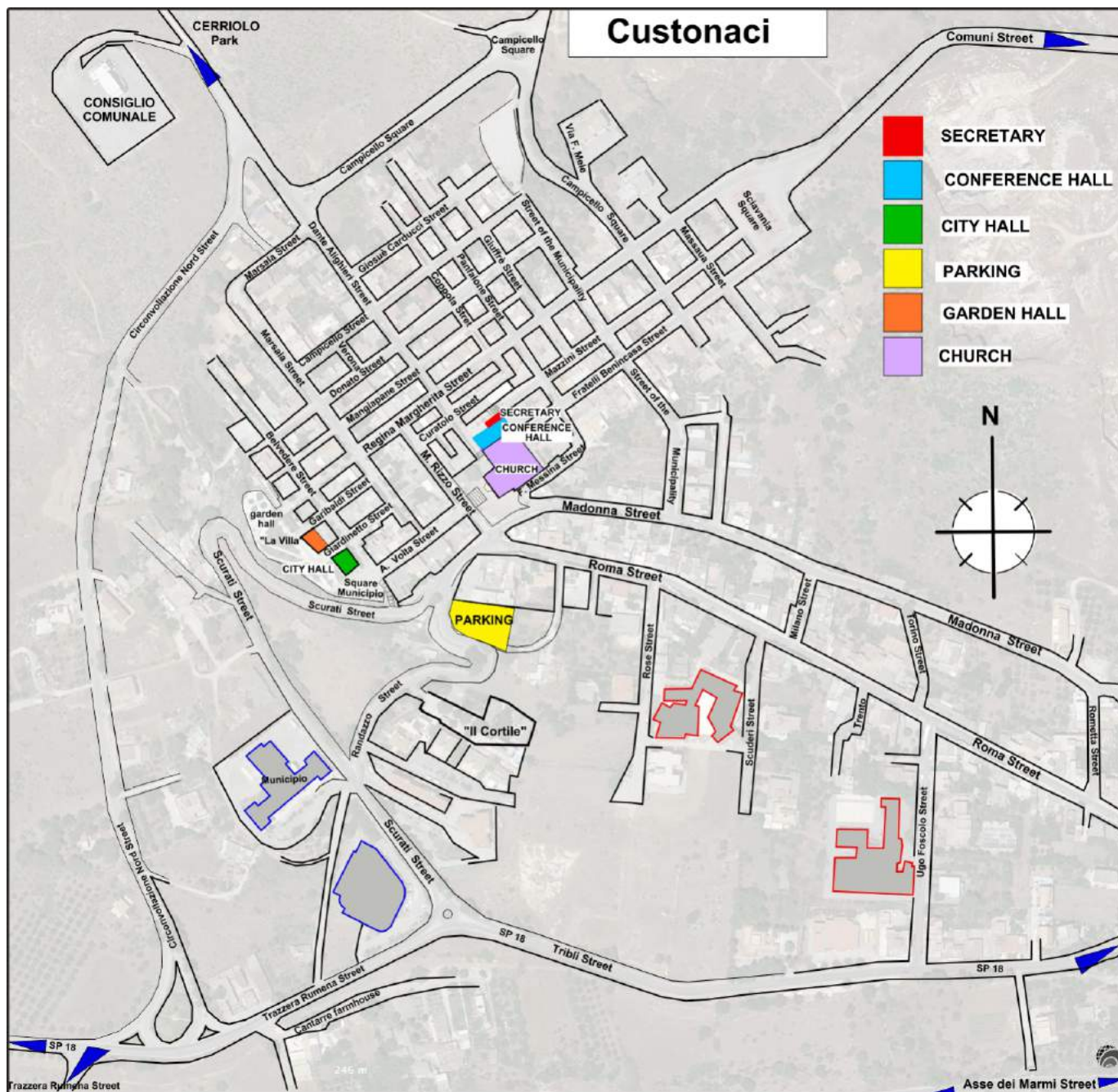
- * Zingaro Nature Reserve - San Vito Lo Capo *Cous Cous Fest*

Saturday 17 September: Whole day excursion

- * Segesta archaeological Park - Thermal pools of Segesta - Saline dello Stagnone e Culcasi

GENERAL INFORMATIONS

- **Insect repellents** are recommended for all field tours as we will be walking in the areas where the presence of ticks is possible.
- Participation on the conference excursions is voluntary and at your own risk.
- The above reported field trips could undergo variations or cancellation due to sudden adverse weather or other causes of force majeure.
- The organizers do not accept any liability for any loss, damage, injury or death arising from or connected with the excursions. Participants are advised to arrange an appropriate insurance policy. The participants are obliged to comply with the instructions of the organizers.



Historic center of the Custonaci city, with locations of the sites related to the Man and Kast events

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