

G F P

global flood partnership



Global Flood Partnership Conference 2018 25-27 June 2018

Bridging the gap between science and users

Deltares, Delft, the Netherlands

Day 1: 25 June 2018

Chair: Peter Salamon, JRC

Time	Topic	
8:30 - 9:00	Registration <i>Location: Delta Plaza - Main Building</i>	
9:00 – 9:30	Welcome & Introduction Chairs GFP: Peter Salamon (JRC) & Albrecht Weerts (Deltares) <i>Location: Colloquium - Main Building</i>	
9:30 – 10:30	Ignite Talks: Global Flood Partnership in Action (see program below) <i>Location: Colloquium - Main Building</i>	5 min each
10:30 – 12:30	Coffee break & GFP Marketplace Find out about new programs, tools & ideas and discuss at the marketplace! List of market booths can be found in the program below. <i>Location: Delta Plaza - Main Building</i>	

12:30– 14:00: Lunch break and Poster session

Location: Delta Plaza - Main Building

14:00– 15:00	Presentations – Session 1 <i>Location: Colloquium - Main Building</i>	Speakers
14:00 – 14:20	The application of high resolution satellite derived soil moisture for flood prediction and estimation	Jaap Schellekens, VanderSat
14:20 – 14:40	A first collective validation of global fluvial flood models for major floods in Nigeria and Mozambique	Mark Bernhofen, University of Leeds
14:40 - 15:00	Comparison of flood footprints and insurance claims data - case study Germany 2013	Katherine Wenigmann, Allianz SE
15:00 – 15:30	Poster Ignite Session	
15:30 – 16:00	Poster session & Coffee break <i>Location: Delta Plaza - Main Building</i>	
16:00 – 17:30	Workshop: Global flood hazard and risk mapping Chair: Mark Trigg, Guy Schumann, Philip Ward, Jeff Neal <i>Location: Colloquium - Main Building</i>	Workshop: Global flood forecasting Chair: Albrecht Weerts, Lorenzo Alfieri, Christel Prudhomme, Jim Nelson <i>Location: Paviljoen</i>

Day 2: 26 June 2018

Chair: Sagy Cohen, University of Alabama

Time	Topic	
9:00 – 10:20	Presentations – Session 2 <i>Location: Colloquium - Main Building</i>	Speakers
9:00 – 9:20	SmartFlood - A Web service for large-scale, high-resolution, index-based flood hazard research: pan-European implementation	Stefano Bagli, GECOSistema
9:20 – 9:40	A global framework for future costs and benefits of river flood protection in urban areas	Phillip Ward, Vrije Universiteit Amsterdam
9:40 – 10:00	The uncertainty in flood wave timing caused by the difference in spatial patterns of precipitation estimations	Huan Wu, Sun Yat-sen University
10:00 - 10:20	Making the GFP agile	David Green, NASA
10:20 – 11:00	Poster session & Coffee break <i>Location: Delta Plaza - Main Building</i>	
11:00 – 12:30	Workshop: Global satellite-based flood monitoring Chair: Sagy Cohen, Robert Brakenridge, John Galantowicz, Patrick Matgen <i>Location: Colloquium - Main Building</i>	Workshop: Defining guidelines and capacity building needs for global flood risk management Chair: Ana Prados, Hessel Winsemius <i>Location: Paviljoen</i>

12:30 – Group photo

Location: Delta Plaza - Main Building

12:30 – 14:00: Lunch break & Posters & Tour of Deltares

Location: Delta Plaza - Main Building

14:00 – 15:30	Table-top exercise on past flood events <i>Location: Colloquium - Main Building and Paviljoen</i>
15:30 – 16:00	Coffee break <i>Location: Delta Plaza - Main Building / Paviljoen</i>
16:00 – 18:00	Table-top exercise on past flood events <i>Location: Colloquium- Main Building and Paviljoen</i>

18:30 Social Dinner - 't Postkantoor, Hippolytusbuurt 14, 2611 HN Delft

Day 3: 27 June 2018

Chair: Albrecht Weerts, Deltares

Time	Topic	
9:00 – 10:20	Presentations – Session 3 <i>Location: Colloquium - Main Building</i>	Speakers
9:00 - 9:20	New global topography dataset for flood modeling & simulation	Dai Yamazaki, University of Tokyo
9:20 - 9:40	Linking Flood impact Forecasting and Satellite Rapid Mapping in Europe	Francesco Dottori, Joint Research Centre
9:40 - 10:00	Decentralized Coordination and Information Sharing in Flood Early Warning and Response	Vittorio Nespeca, Delft University of Technology
10:00 - 10:20	Utilizing Flood Inundation Observations to Obtain Floodplain Topography in Data-Scarce Regions for use in a Hydrodynamic Model	Apoorva Shastry, Ohio State University
10:20 – 11:00	Poster session & Coffee break <i>Location: Delta Plaza - Main Building</i>	
11:00 - 11:20	Large Scale Flood Risk Analysis Using New Population Data	Jeff Neal, University of Bristol
11:20 - 11:40	Mapping the impacts of large-scale climate patterns on flood timing and frequency over Sub-Saharan Africa using GloFAS	Andrea Ficchi, University of Reading
11:40 - 12:00	Impacts of climate change on coastal extreme sea-levels	Martin Verlaan, Deltares & TU Delft
12:00 - 12:30	Discussion: GFP support service/helpdesk <i>Location: Colloquium - Main Building</i>	Peter Salamon, JRC

12:30 – 14:00: Lunch break & Posters & Tour of Deltares

14:00 – 14:40	Reporting of outcomes from workshops, table top exercise and discussions <i>Location: Colloquium - Main Building</i>	
14:40 – 15:00	Summary, conclusions, way forward, AOB for the partnership <i>Location: Colloquium - Main Building</i>	Peter Salamon & Albrecht Weerts
15:00	Closure of the meeting <i>Location: Colloquium - Main Building</i>	

Ignite Talks (25 June 2018 9:30 – 10:30)

Speakers program

#	Time	Title	Speaker
1	9:30 – 9:35	A global network for operational flood risk reduction: The Global Flood Partnership	Lorenzo Alfieri, Joint Research Center
2	9:35 - 9:40	Impact-based flood forecasting	Joost Annegien Deltares
3	9:40 - 9:45	Exploring human response to floods using global satellite data	Johanna Mård, Uppsala University
4	9:45 - 9:50	FwDET-C: Coastal Version of the Floodwater Depth Inundation Tool	Sagy Cohen, University of Alabama
5	9:50 - 9:55	Global fluvial flood modelling – a sensitivity analysis	Dirk Eilander, IVM-VU University
6	9:55 - 10:00	A multipurpose flood inundation framework for Europe	Jeison Sosa, University of Bristol
7	10:00 - 10:05	Flood Foresight: A pilot project in the Brahmaputra basin provides flood inundation forecasts in response to the summer 2017 floods	Beatriz Revilla-Romero, JBA Consulting
8	10:05 - 10:10	Community mapping to identify flood risk	Hessel Winsemius, Deltares
9	10:10 - 10:15	A Global Streamflow Forecasting Service Derived from the GloFAS System	Jim Nelson, Brigham Young University
10	10:15 - 10:20	U.S. Hurricane Support by the U.S. Army Engineer Research and Development Center (ERDC)	Ahmad Tavakoly, U.S. Army Engineer Research and Development Center
11	10:20 - 10:25	World Water Atlas	Tiaravanni Hermawan, Deltares
12	10:25 - 10:30	Scoping for the Operation of Agile Urban Adaptation for Secondary Cities of the Global South: Possibilities in Pune, India	Tejas Pathak, IHE Delft

GFP marketplace (25 June 2018 10:30 – 12:30)

Title	Moderators
From forecasting hydrological modelling to impacts	Marcio Moraes, CEMADEN
Cat Modeling for Rapid Loss Assessment at Country Level	Gabriele Coccia, RED - Risk Engineering+Design
Use of online media in flood risk management	Jurjen Wagemaker, FloodTags, Jens de Bruijn, IVM-VU
The Global Flood Awareness System	Peter Salamon, JRC Ervin Zsoter, Christel Prudhomme, ECMWF
NASA Disasters program	David Green, NASA
Global Flood Analyzer 2.0	Hessel Winsemius, Deltares
GEOGLOWS - Global Streamflow Forecasting Pilot	Jim Nelson, Brigham Young University
Applied Research and Development at U.S. Army Corps of Engineers	Mark Wahl, U.S. Army Engineer Research and Development Center
Flood forecast mapping at scale using simulation library approaches	John Bevington, JBA Consulting
Dartmouth Flood Observatory - Web Map Services	Robert Brakenridge, University of Colorado
HASARD on GPOD	Patrick Matgen, Luxembourg Institute of Science and Technology
Satellite derived soil moisture for flood applications	Mendy van der Vliet, VanderSat
FloodScan: Daily near-real-time and historical flood mapping	John Galantowicz, Atmospheric and Environmental Research
Map your flood!	Beth Tellman, Cloud to Street

Poster program

Title	Presenter
Flood Hazard Mapping Combining Hydrodynamic Modeling and Multi Annual Remote Sensing data	Leon Orotta, VSO-NEPAL
Flood monitoring and mitigation in Pakistan using optical and microwave remote sensing data	Yaseen Muhammad, University of the Punjab
Simulating DEMs for flood models	Laurence Hawker, University of Bristol
Floods in a warmer world - learning from the past	Paolo Scussolini, Vrije Universiteit Amsterdam
Coupling large-scale flood models for improved flood hazard simulations	Jannis Hoch, Utrecht University
The dynamic exposure of urban land and population to fluvial floods in China	Shiqiang Du, VU Amsterdam
Global Flood Detection and Monitoring Using Social Media	Jens de Bruijn, IVM-VU
NASA Disasters Program & GFP	John Murray, NASA Disasters Program
Remote Sensing Training for Flood Applications	Ana Prados, University of Maryland Baltimore County
Rainfall Erosivity and Its Implication on Land Use and Conservation Planning in Ghana	Samuel Ayodele Mesele, Federal University of Agriculture Abeokuta Nigeria
Updating the Global Flood Map	Yasir Kaheil, FM Global
Flood risk and willingness to pay for flood risk control among agricultural households in low- and middle-income countries	Stephen Frimpong, University of Wyoming
The role of climate variability in extreme floods in Europe	Gabriela Guimaraes Nobre, VU Amsterdam IVM
SmartFlood - A Web service for large-scale, high-resolution, index-based flood hazard research: pan-European implementation	Ricardo Tavares, GECOSistema
An Interoperable Decision Support System for Flood Disaster Response Assistance	Guy Schumann, RSS/UC Boulder/UoBristol
SmartFlood - A Web service for large-scale, high-resolution, index-based flood hazard research: pan-European implementation	Paolo Mazzoli, GECOSistema Srl
Forecast flood inundation and impact mapping using simulation library approaches	John Bevington, JBA Consulting
NASA's Near Real-Time Global Flood Mapping System: coming updates and improvements	Dan Slayback, SSAI / NASA GSFC

Global fluvial flood hazard map comparison for China	Jerom Aerts, Vrije Universiteit
Utilizing Global Hydrometeorological Forecasts to Inform Flood Risk at Multiple Spatial Scales	Joseph Gutenson, US Army Engineer Research and Development Center
Incorporation of the nesting method on flood inundation modelling for estuaries and deltas using global flood models	Hiroaki Ikeuchi, The University of Tokyo
Development of the global flood forecasting system at the University of Tokyo	Yuta Ishitsuka, Institute of Industrial Science, The University of Tokyo
Capturing high flow events in the Amazon Basin	Jamie Towner, University of Reading
A new computational flow foundation for satellite measurement of river flow	Duncan Livesey, University of Leeds
Relevance of Flood Emergency Plan to reduce damages and prevent loss of life	Sara Frongia
Multi-Model Projections of River Flood Risk in Europe under Global Warming	Lorenzo Alfieri, European Commission - Joint Research Centre
AFM-R: AFED (daily data input) description and index design for insurance purposes	Elke Verbeeten, African Risk Capacity (ARC)
The challenge using GloFAS in a small basin	Marcio Moraes, CEMADEN

Logistics

Accommodation

A number of rooms was pre-booked in two hotels in Delft:

[Campanile Hotel Delft](#)

Address: Kleveringweg 53, 2616 LZ Delft

Email: delft@campanile.com

Phone: +31 15-2799000

Price: 75 €/night (breakfast included) + tourist tax (2.90€)

Booking code: Deltares

[WestCord Hotel Delft](#)

Address: Olof Palmestraat 2, 2616 LM Delft

Email: Reservations.delft@westcordhotels.nl

Phone: +31 (0) 158889010

Price: 115 €/night (breakfast included) + tourist tax (2.90€)

Booking code: GFP2018

Participants should book their own accommodation by directly sending email to the hotel.

Discounted rates are available **until May 15th, 2018**, using the booking codes as above.

Venue

The meeting venue is Delta Plaza at main tower at the [Deltares Delft office](#).

Boussinesqweg 1, 2629 HV Delft, The Netherlands

See building floor plan below

Parking

Limited visitor Parking is available at Deltares campus.

Emergency:

- Call 112 from any phone
- Deltares contact number : tel: +31 (0)88 335 8273 (08:00 and 17:30 hours)

Transportation:

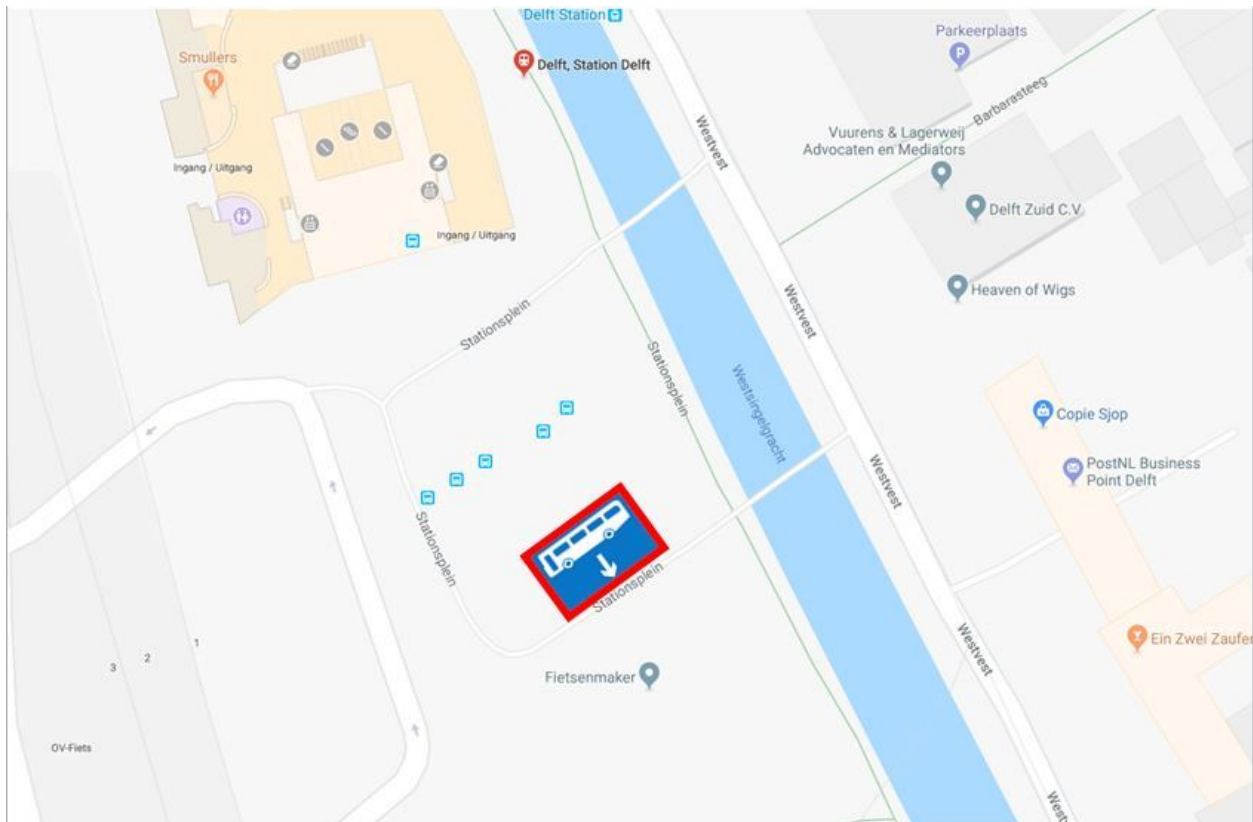
- Transportation to the meeting venue
 - A free shuttle service will be provided from our partner hotels and Delft center to the conference venue in the mornings and back at the end of each day. Bus service is provided by Van Heugten Tours and is **ONLY** available for participants who registered for it in advance.
 - Please check the Departure and Arrival timings for the bus in the table below:

Day 1	June 25th 2018	
07:45	Departure	Delft station DELFT
08:00	Arrival	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
08:00	Departure	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
08:15	Arrival	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT
08:15	Departure	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT
08:30	Arrival	Deltares, Boussinesqweg 1 2629 HV DELFT
17:45	Departure	Deltares, Boussinesqweg 1 2629 HV DELFT
18:00	Arrival	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT
18:00	Departure	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT
18:15	Arrival	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
18:15	Departure	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
18:30	Arrival	Delft station DELFT
Day 2	June 26th 2018	
08:00	Departure	Delft station DELFT
08:15	Arrival	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
08:15	Departure	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
08:30	Arrival	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT

08:30	Departure	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT
08:45	Arrival	Deltares, Boussinesqweg 1 2629 HV DELFT
18:15	Departure	Deltares, Boussinesqweg 1 2629 HV DELFT
18:25	Arrival	Delft Station DELFT
18:25	Departure	Delft Station DELFT
18:30	Arrival	Stop Postkantoor, Phoenixstraat 43, 2611 AL DELFT
18:30	Departure	Stop Postkantoor, Phoenixstraat 43, 2611 AL DELFT
18:45	Arrival	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
18:45	Departure	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
19:00	Arrival	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT
22:00	Departure	Stop Postkantoor, Phoenixstraat 43, 2611 AL DELFT
22:05	Arrival	Delft Station DELFT
22:05	Departure	Delft Station DELFT
22:20	Arrival	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
22:20	Departure	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
22:35	Arrival	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT
Day 3		
June 27th 2018		
08:00	Departure	Delft Station DELFT
08:15	Arrival	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
08:15	Departure	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
08:30	Arrival	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT
08:30	Departure	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT
08:45	Arrival	Deltares, Boussinesqweg 1 2629 HV DELFT
15:00	Departure	Deltares, Boussinesqweg 1 2629 HV DELFT
15:15	Arrival	Westcord hotel, Olof Palmestraat 2 2616 LM DELFT

15:15	Departure	Westcord hotel, Olof Palmestraat 2 2616 LM DELF
15:30	Arrival	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
15:30	Departure	Campanile hotel, Kleveringweg 53 2616 LZ DELFT
15:45	Arrival	Delft station DELFT

For the stop near Delft Central Station, please refer to the map below. Shuttle bus can be boarded at Delft Central bus stop.



- Intercity bus services are available from
 - [RET](#) - Phone: 0900 5006010
 - [Connexxion](#) - [Ticket information](#) - 0900 2666399

 - From Delft Central station / Delft Center to Deltares:
A short bus ride connects Delft station/ Delft Center to Deltares.

Take bus 69 or bus 40 and get off at Delft, TU - Technopolis which is around 500 meters from Deltares.

- From Rotterdam Centraal to Deltares:
Bus 40 can be used to come to Deltares from Rotterdam Centraal. Get off from the bus at Delft, TU - Technopolis which is around 500 meters from Deltares.
- Taxi services: [UBER](#) are available for off-schedule travel.
- In case you have booked your stay in one of these two hotels without using the GFP promotional code and would like to use the free shuttle bus to the conference venue please indicate that in the online confirmation form.
- Please also let us know (using the online confirmation form) if you plan to stay in hotels other than the two pre-booked.

How to get to Delft

BY PLANE

- Amsterdam Airport Schiphol is 45 min away by train. For Delft, you can get direct trains or with connections at Leiden Centraal or The Hague Hollands Spoor (which is called Den Haag HS). Taxi services can also be arranged from Schiphol airport.
- Rotterdam The Hague Airport is only a few kilometers away but has poor public transport connections. RET city bus 33 runs frequently to Rotterdam Centraal Station and takes you to Delft in about 20 min. From there it's a 20 min train ride.

BY TRAIN

Buying a train ticket at Schiphol airport

- You will have to buy a train ticket at the office "train tickets and services", opposite the meeting point (a large red-and-white checked cube). There you will see signs indicating "train tickets & services". At the ticket window you can buy a one way ticket to Delft. You can buy a train ticket at the yellow ticket vending

machines only if you have a Dutch bank account.

From Schiphol to Delft station

- The officer at the ticket window can explain at which platform you will have to take the train.
- This is also indicated at the sign stating "departing trains", which can be found opposite the meeting point. Please look for the destination "Delft". The sign indicates the next train going in this direction, and whether you have to change at Leiden Central or Den Haag Hollands Spoor or if it is direct. It also indicates the platform number the train departs from.
- The escalators and elevators to the train platforms can be found in the middle of the Schiphol Plaza.
- To get a connection at "Leiden Centraal" or at "Den Haag Hollands Spoor" simply go to the opposite side of the platform on which you arrived, where the train to Delft will depart. Always check the information board whether Delft is mentioned: some trains do not stop in Delft!
- For pre- scheduling your train journey, please check www.ns.nl . The English version is in the upper right corner. Alternatively, use the [Reisplanner App](#) .
- Delft has two railway stations: Delft (near the city center and best for the university) and Delft Zuid (Delft's southern residential area). (Direct) train connections run from:
 - Den Haag Central Station or Hollands Spoor(10 min)
 - Schiphol Airport (45 min)
 - Amsterdam (1 h)
 - Rotterdam (15 m)

BY TRAM

- Delft is a short tram ride from Den Haag. Tram line 1 runs from Scheveningen, through the middle of Den Haag and Den Haag HS to Delft. Travelling time is approximately 20 min from Den Haag to Delft. From Scheveningen to Delft it takes about 45 min. Tell the driver your travel plans so that he can sell you the best value ticket.
- On the trams you now must use the OV-Chipcard or day-pass. Buy these from the central station or ask at an information desk.

Please check the [conference webpage](#) for more logistic information on accommodation

and transports to and from the nearby airports.

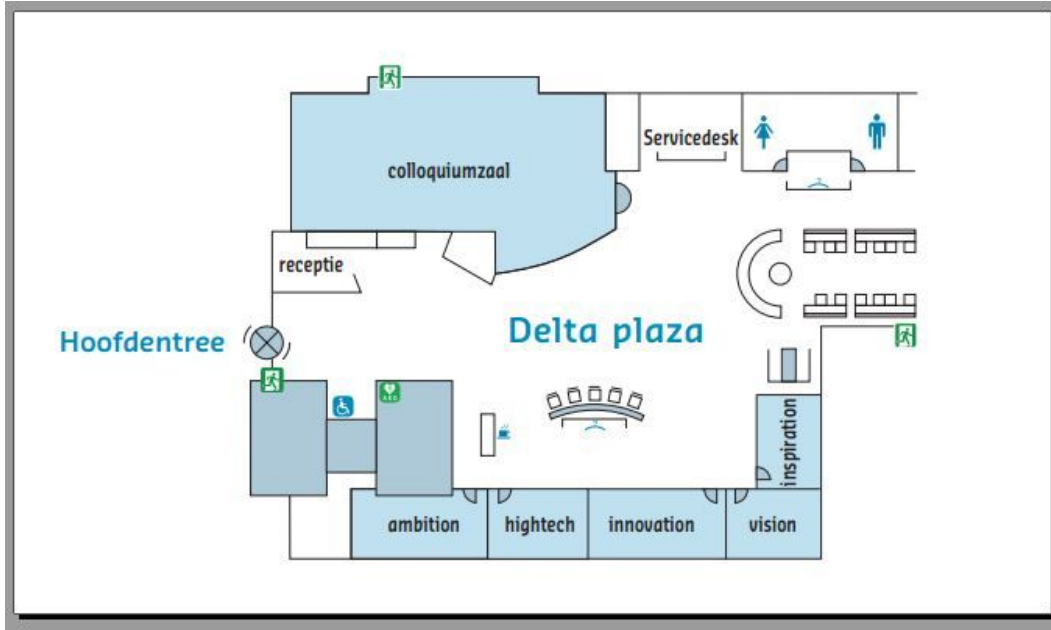
Social Dinner

Social Dinner is organized on Day-2 evening at 18:30 at 't Postkantoor, Hippolytusbuurt 14, 2611 HN Delft. Shuttle Bus service will also be provided between Restaurant and partner Hotels.

Deltares office at Delft



Floor plan of Deltares main building in Delft



GFP Steering Committee

Peter Salamon (European Commission, Italy)

Albrecht Weerts (Deltares, Netherlands)

Albert Kettner (University of Colorado, USA)

Sagy Cohen (University of Alabama, USA)

Erin Coughlan de Perez (Red Cross Red Crescent Climate Centre, Netherlands)

Ana Prados (University of Maryland, USA)

Roberto Rudari (CIMA Research Foundation, Italy)

Mark Trigg (University of Leeds, UK)

Huan Wu (Sun Yat-sen University, China)

Organizing committee

Lorenzo Alfieri (European Commission, Italy)

Aashish Bhardwaj (Deltares, Netherlands)

Patricia Trambauer (Deltares, Netherlands)

Shristi Vaidya (Deltares, Netherlands)

Hessel Winsemius (Deltares, Netherlands)

Sponsored by

