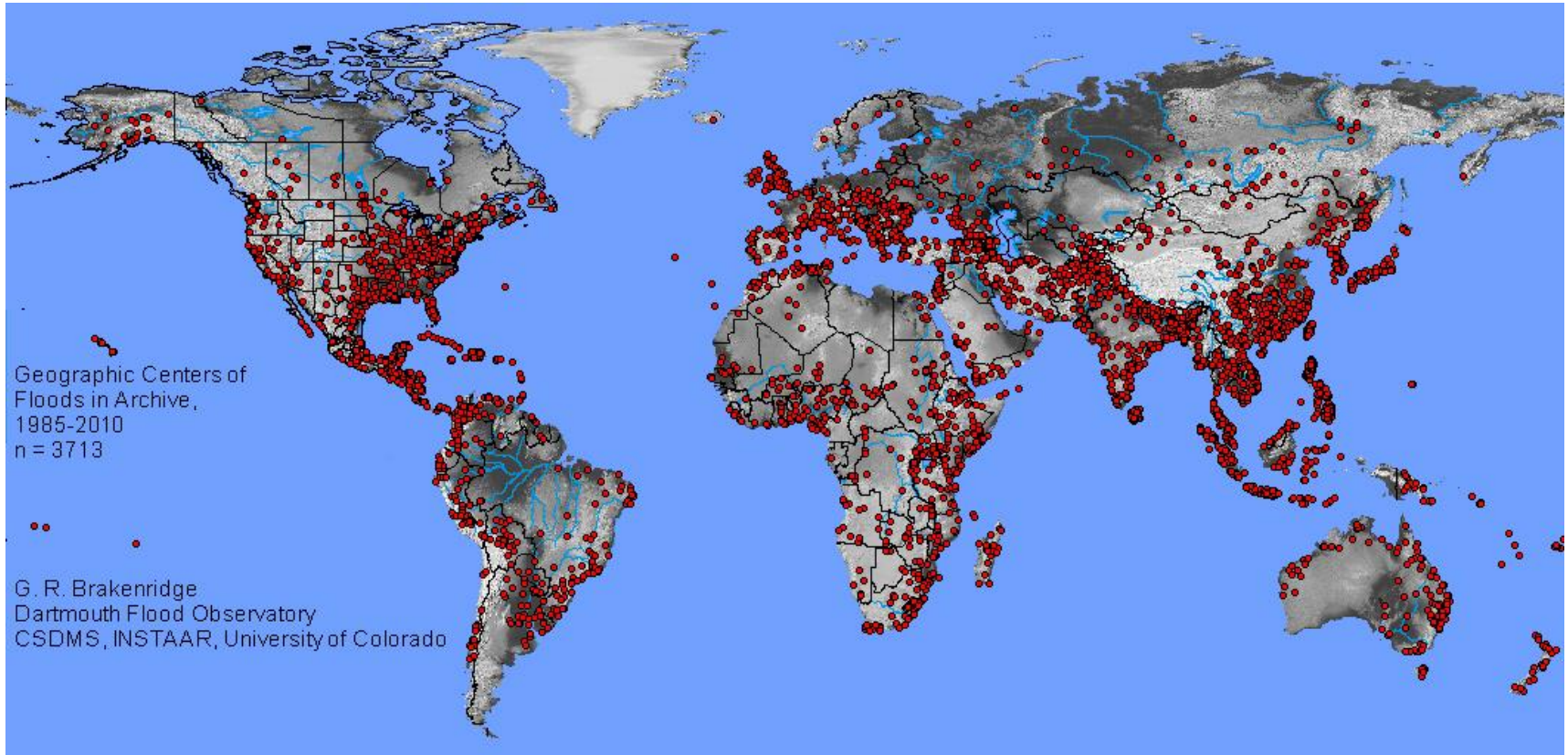
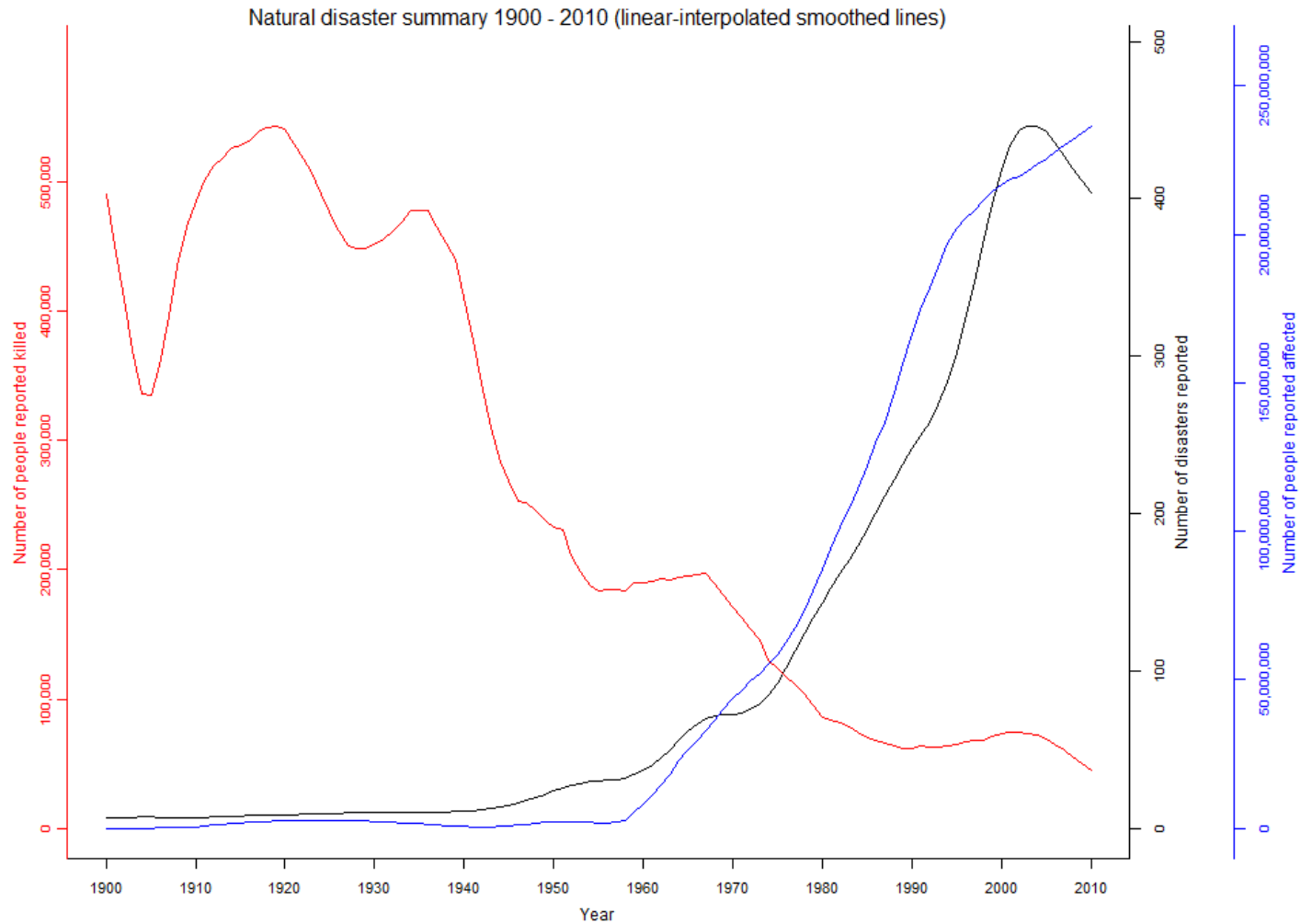


GloFAS- Flood forecasting at ECMWF

Flooding – a global challenge

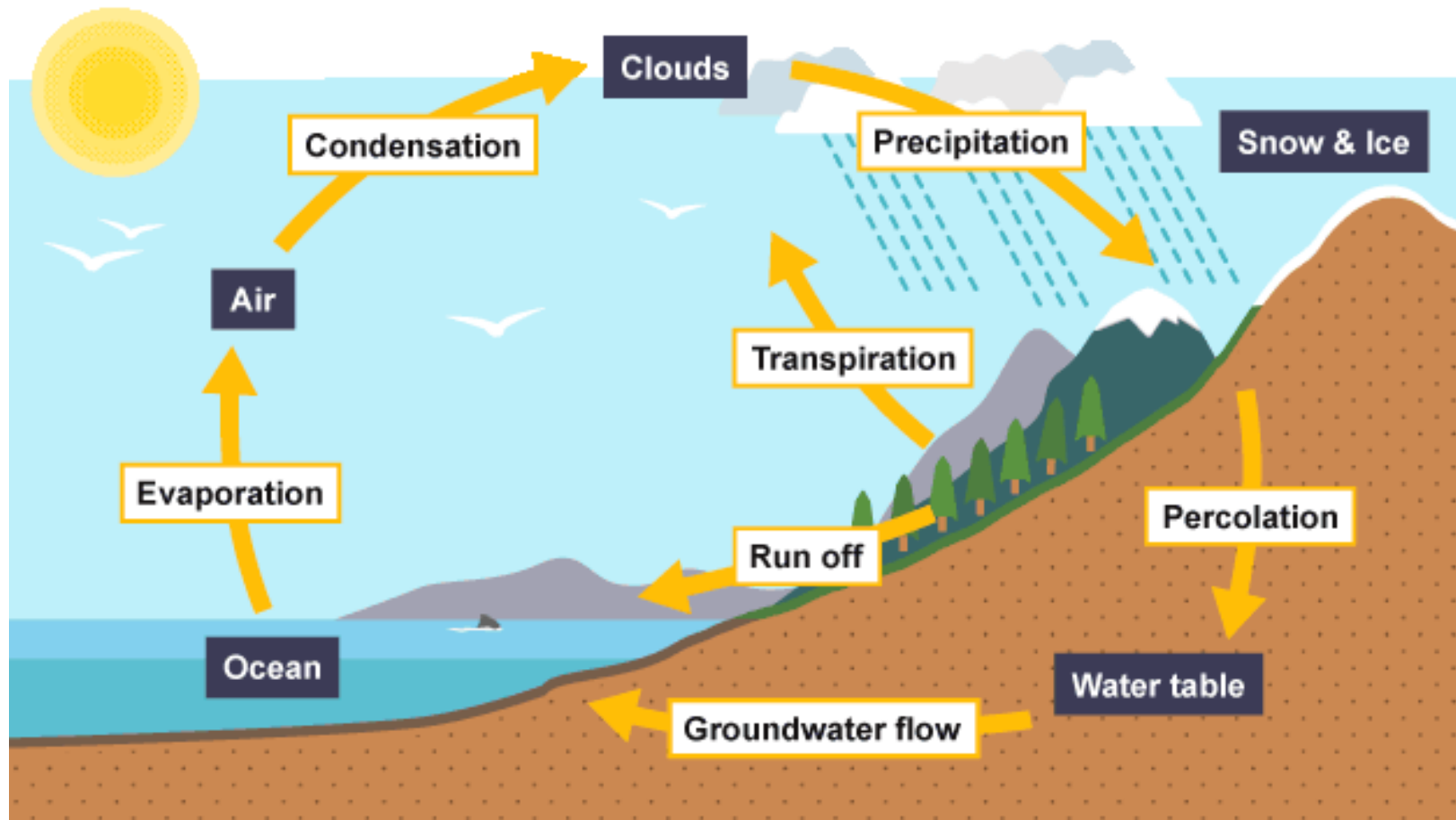


Flooding – a global challenge

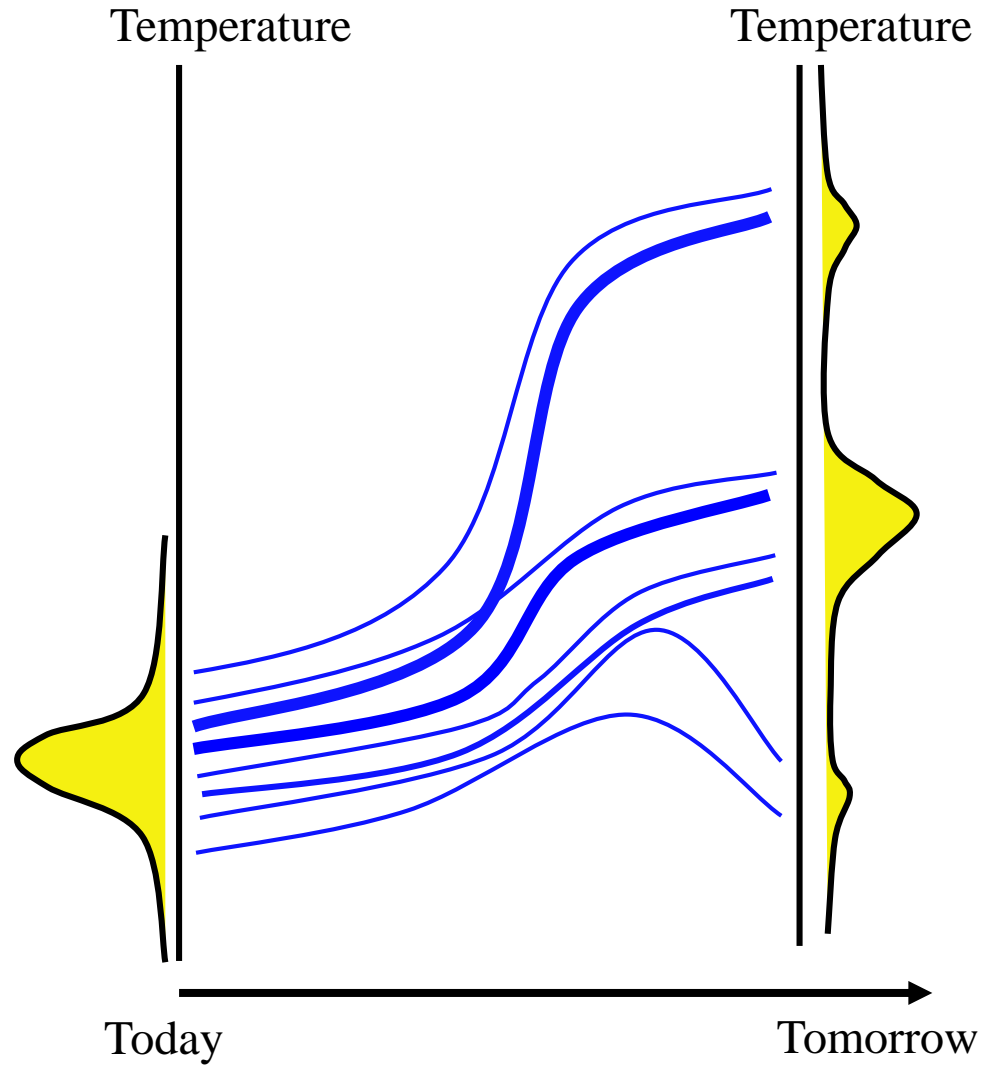


EM-DAT: The OFDA/CRED International Disaster Database - www.emdat.be - Université Catholique de Louvain, Brussels - Belgium

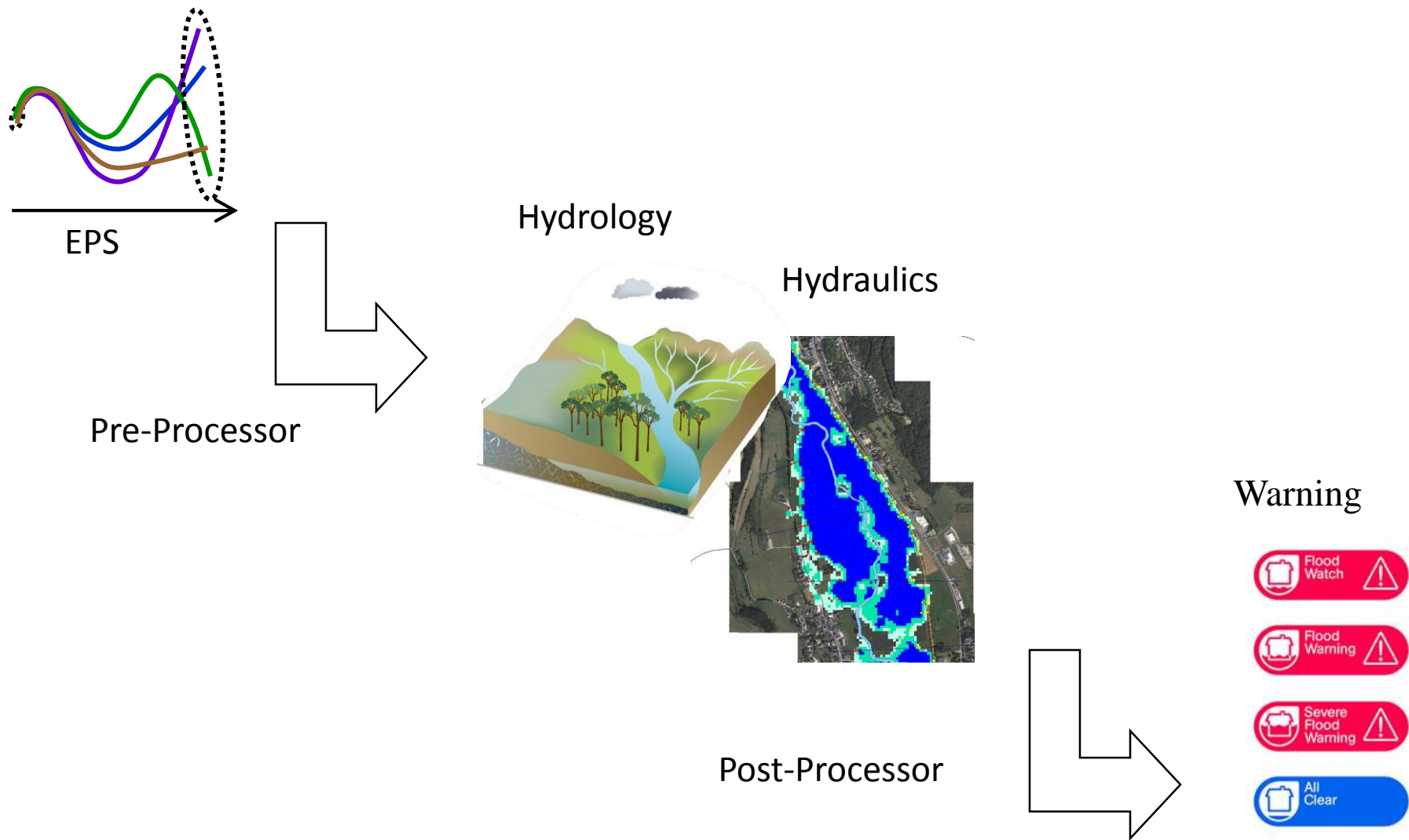
Hydrology – modelling the water cycle on land



Ensemble prediction systems

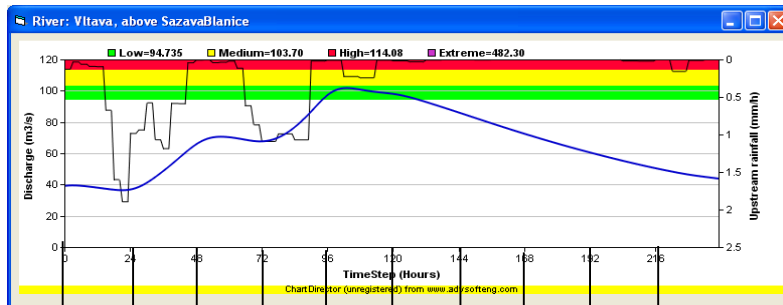


Forecasting chain using ensembles



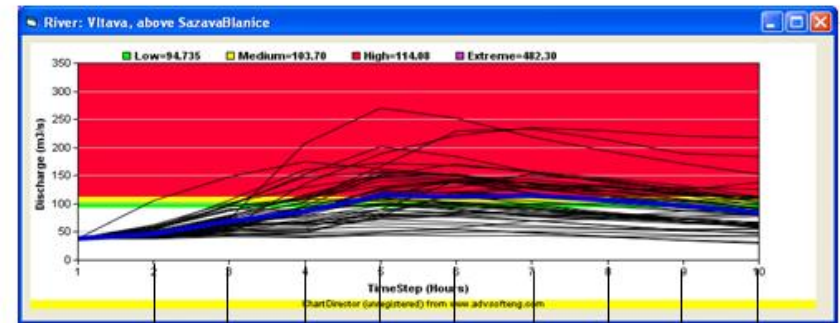
Warnings - time series simplified

Single deterministic forecasts



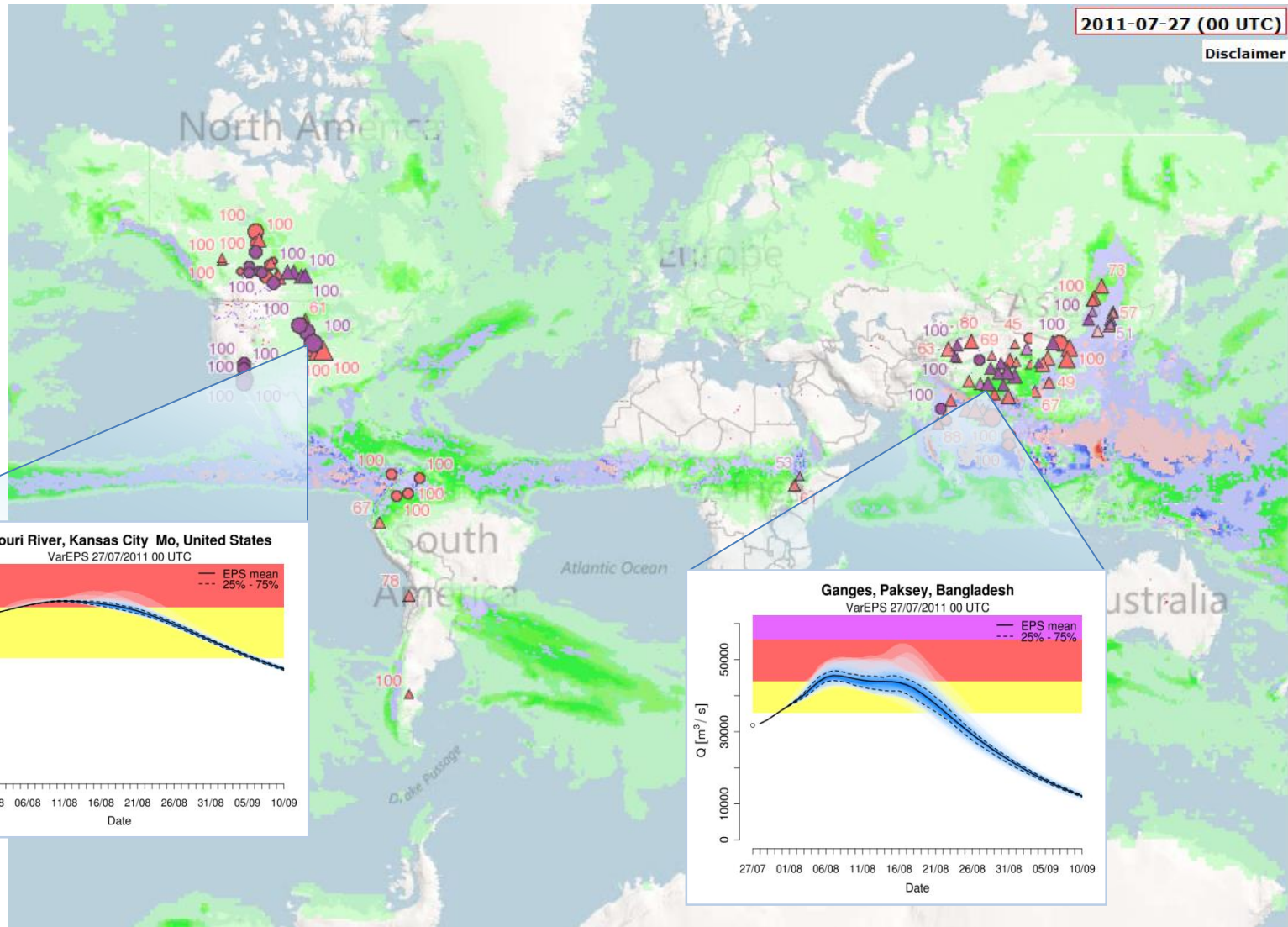
7	8	9	10	11	12	13	14	15	16

EPS forecasts



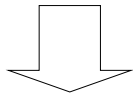
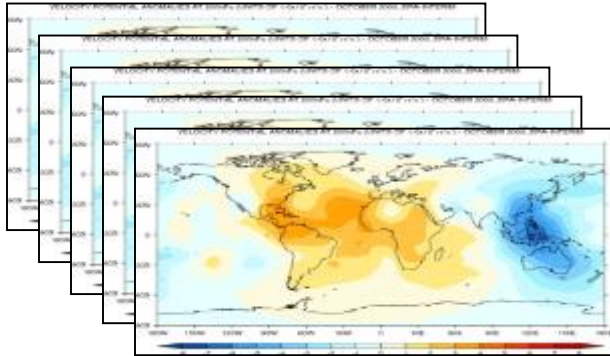
Forecast Day	8	9	10	11	12	13	14	15	16
EPS > HAL		1	8	22	24	27	17	14	5
EPS > SAL									

A global challenge? The Global Flood Awareness Systems

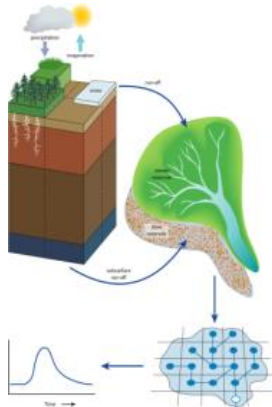


GloFAS – A global challenge

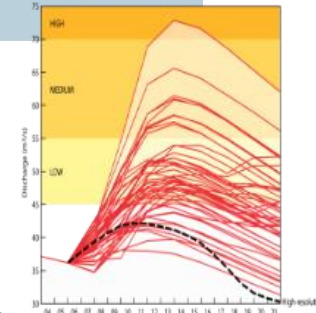
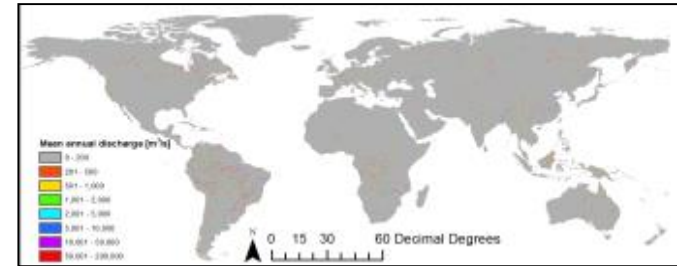
Global probabilistic weather forecast (ECMWF)



hydrological model



Decision support information





2015-11-10 00

UTC



5 Year Return Period Exceedance



Layer description

20 Year Return Period Exceedance



Layer description

Precipitation Prob. > 300mm



Layer description

Precipitation Prob. > 150mm



Layer description

Precipitation Prob. > 50mm



Layer description

Reporting Points



Layer description

Accumulated Precipitation



Layer description

