

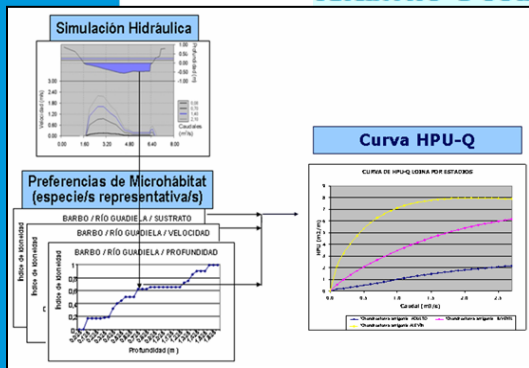
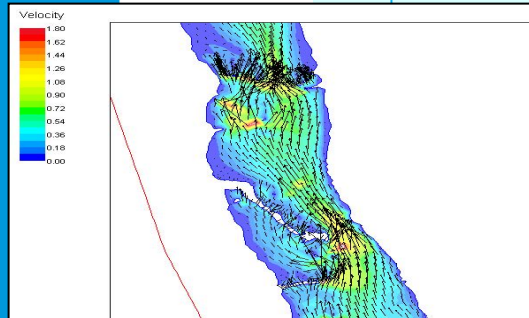
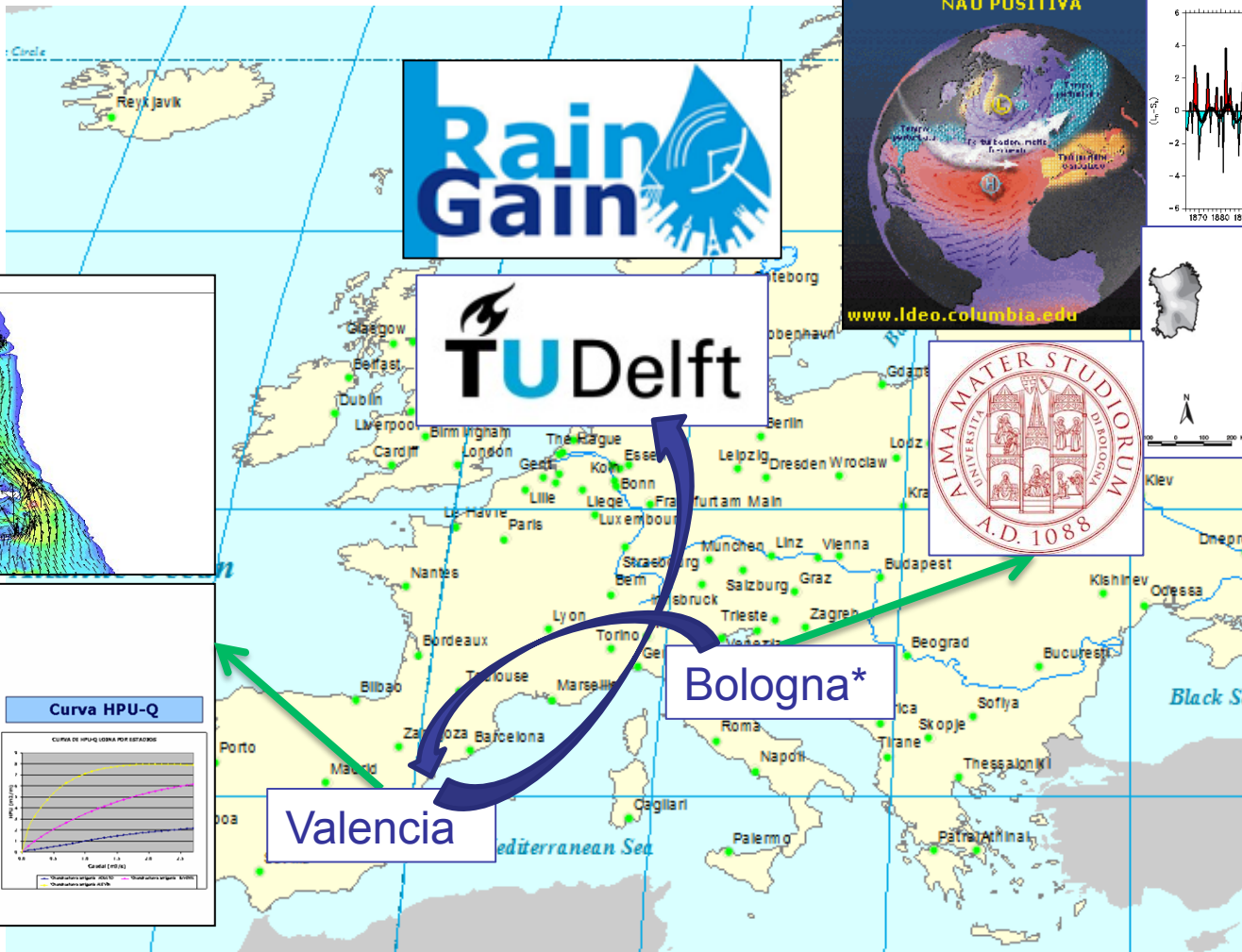
Guenda Bruni

PhD candidate at the Urban drainage section,
Water management Department,
Delft University of Technology



Rain Gain Meeting- Rotterdam (NL)
25th-26th October 2012





*L.Brandimarte, G. Di Baldassarre, G. Bruni, P. D'Odorico and A. Montanari (2011) "Relation Between the North-Atlantic Oscillation and Hydroclimatic Conditions in Mediterranean Areas" Water Resour Manage (2011) 25:1269–1279 DOI 10.1007/s11269-010-9742-5

European Geoscience Union, Wien, Austria, April 2012

Rainfall resolution for weather radars and their application in urban drainage modelling*

UrbanRain workshop, St. Moritz, Switzerland, December 2012

Towards the use of X-band dual polarimetric radar rainfall estimates in urban hydrology**

* G. Bruni, J.A.E. ten Veldhuis, T. Otto, H. Leijnse; Geophysical Research Abstracts Vol. 14, EGU2012-3317, 2012, EGU General Assembly 2012, © Author(s) 2012

** G. Bruni, J.A.E. ten Veldhuis, T. Otto, H. Leijnse; not published yet

EGU 2012: Rainfall resolution for weather radars and their application in urban drainage modelling*

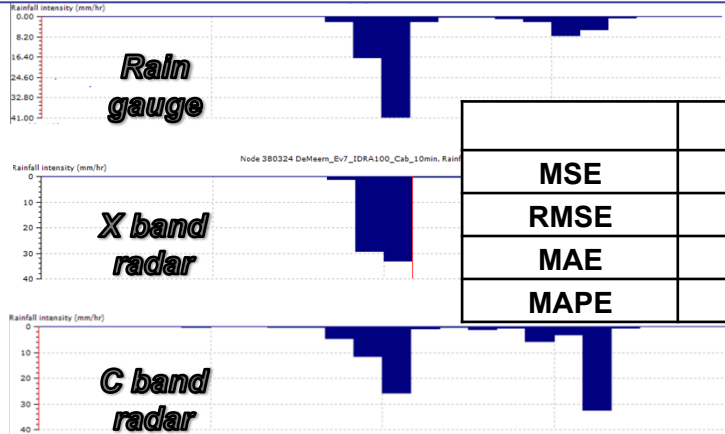
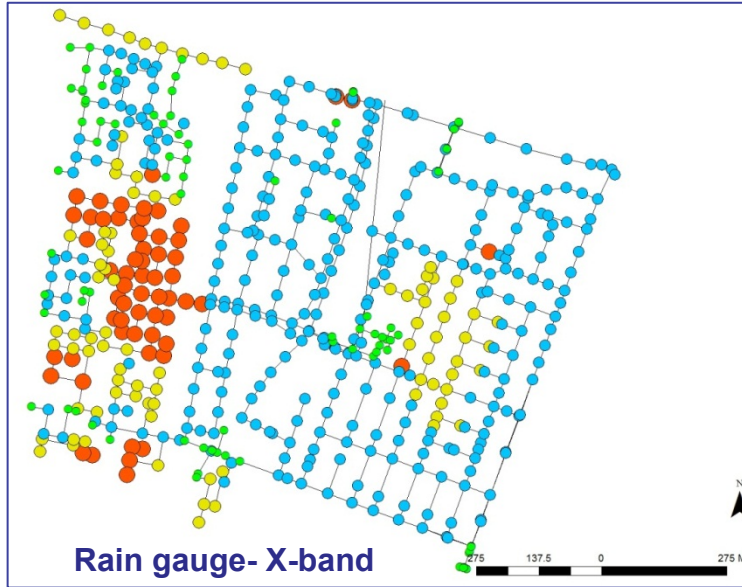
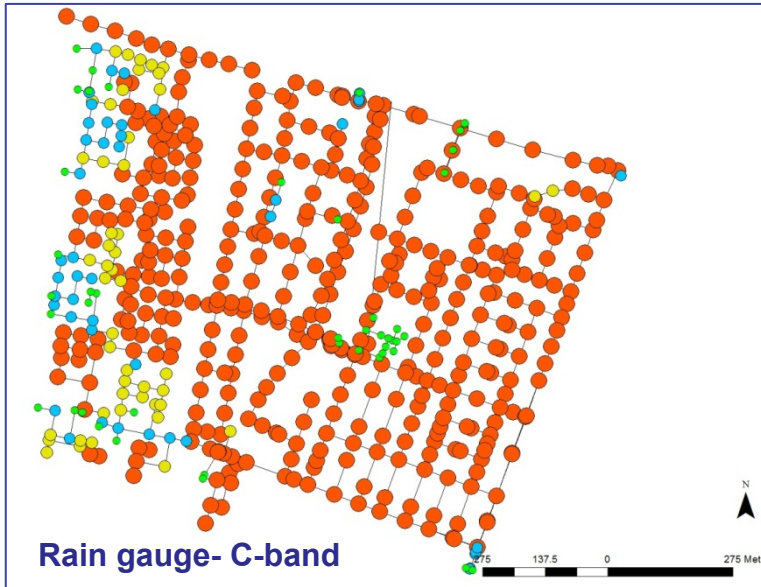


* G. Bruni, J.A.E. ten Veldhuis, T. Otto, H. Leijnse; Geophysical Research Abstracts Vol. 14, EGU2012-3317, 2012, EGU General Assembly 2012, © Author(s) 2012

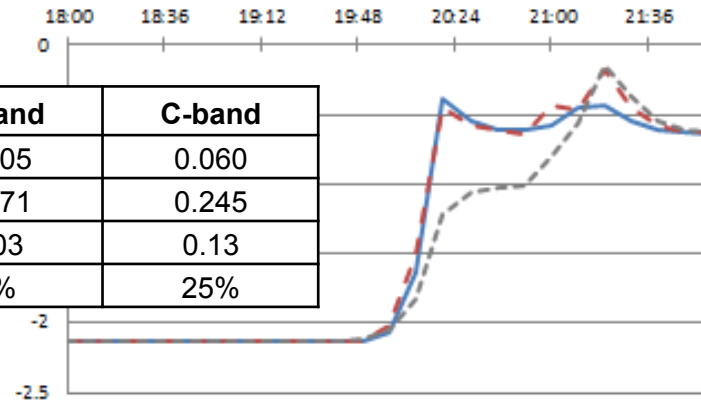


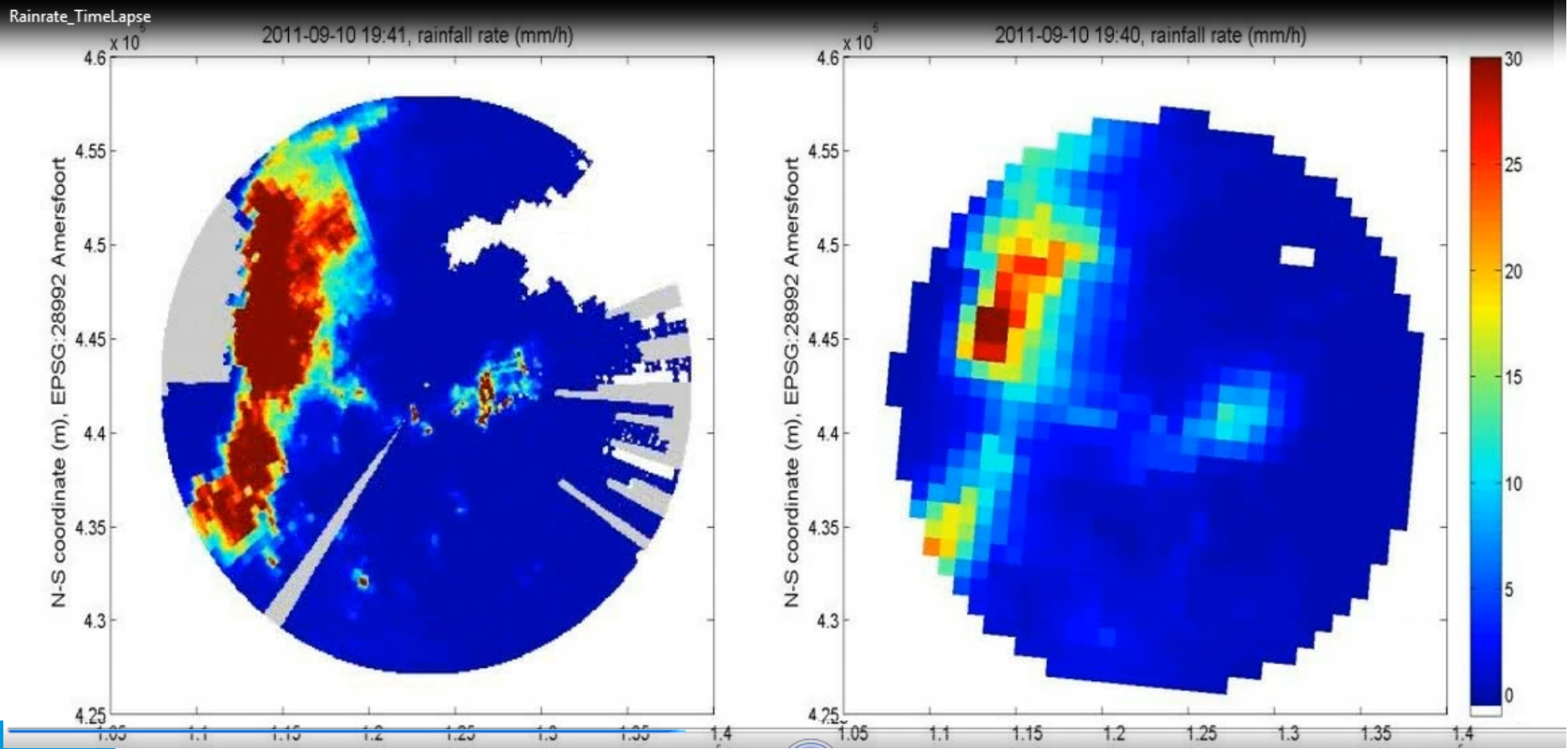
Specifications	X-band radar	C-band radar
Frequency	9.475 GHz	5.6 GHz
Polarization	dual polarization	horizontal
Spatial resolution	30 m	1 Km
Temporal resolution	1 min	5 min
Beamwidth	1.8°	1°
Elevations	0.5°	0.3°-25°

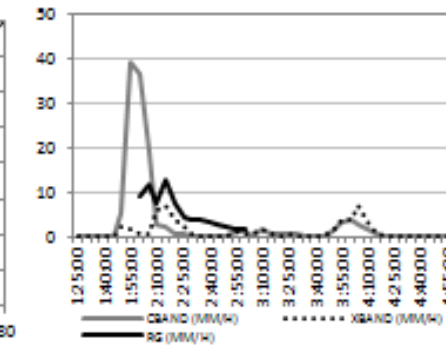
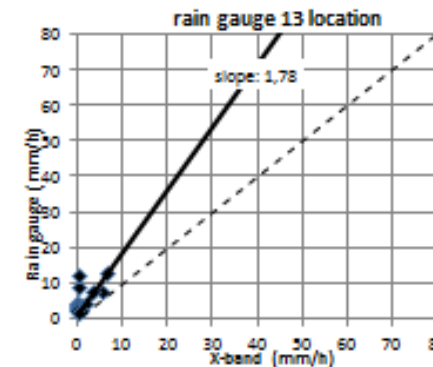
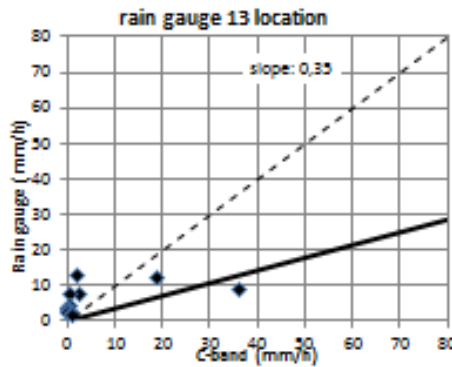
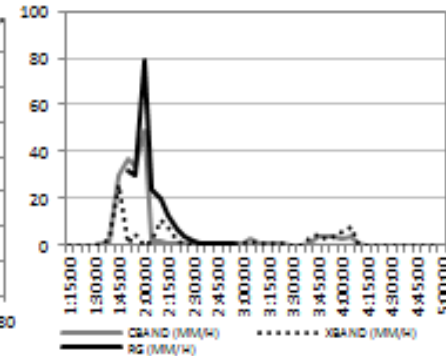
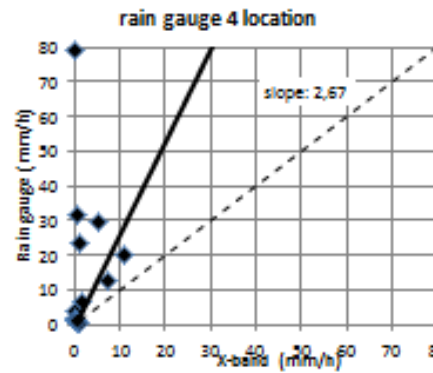
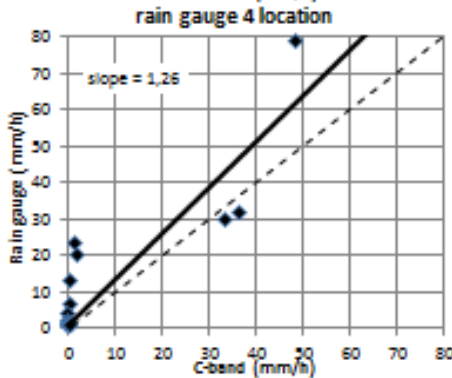
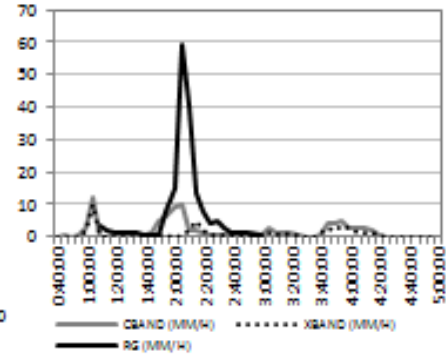
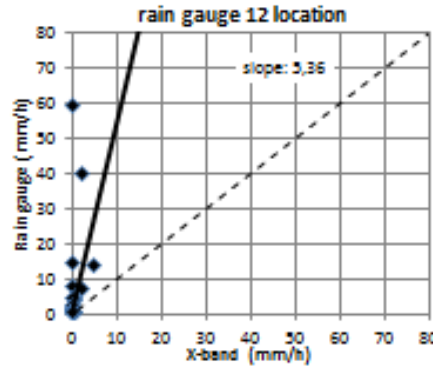
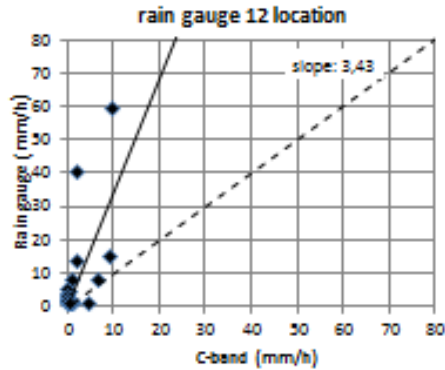




	X-band	C-band
MSE	0.005	0.060
RMSE	0.071	0.245
MAE	0.03	0.13
MAPE	6%	25%









Discharge measurements, Jucar river, Cuenca (ES), June 2011

