

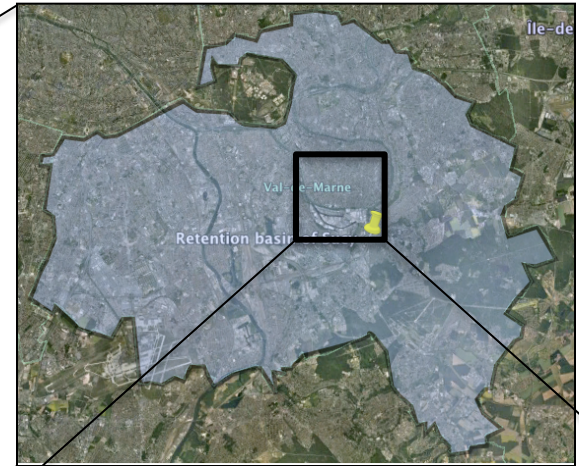
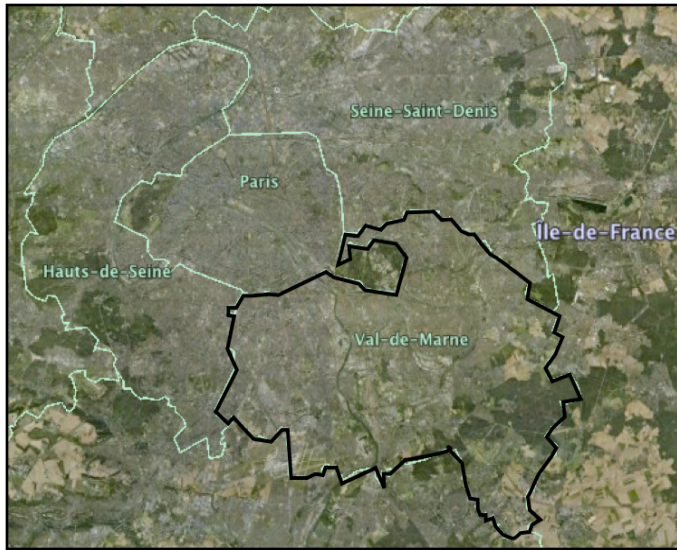



Presentation of the Sucy-en-Brie case study


A. Ichiba, Ph. Bompard, I. Tchiguirinskaia, D. Schertzer

RainGain Project Meeting, Rotterdam, 25-26 October 2012

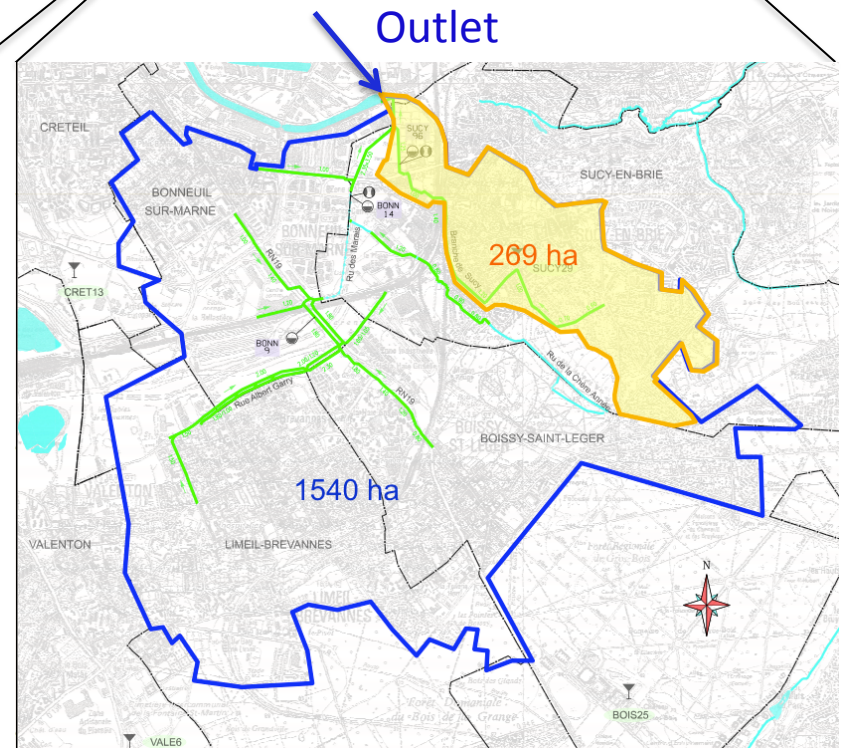
Location and Environment



 Ru des Marais catchment

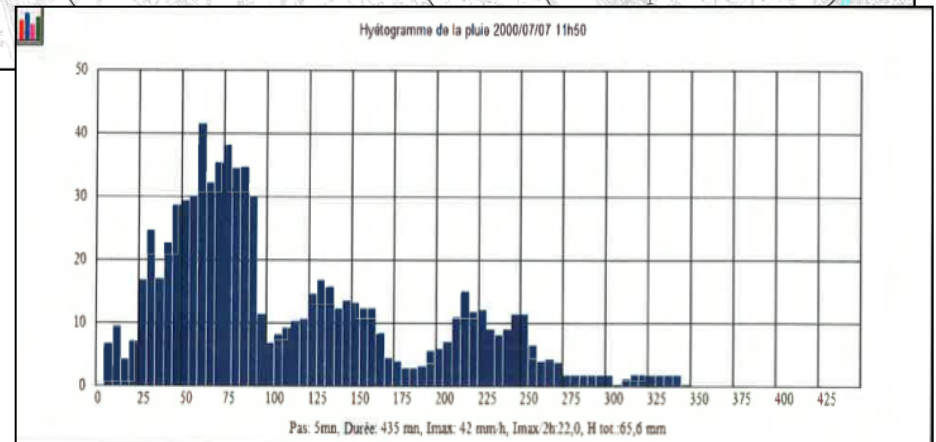
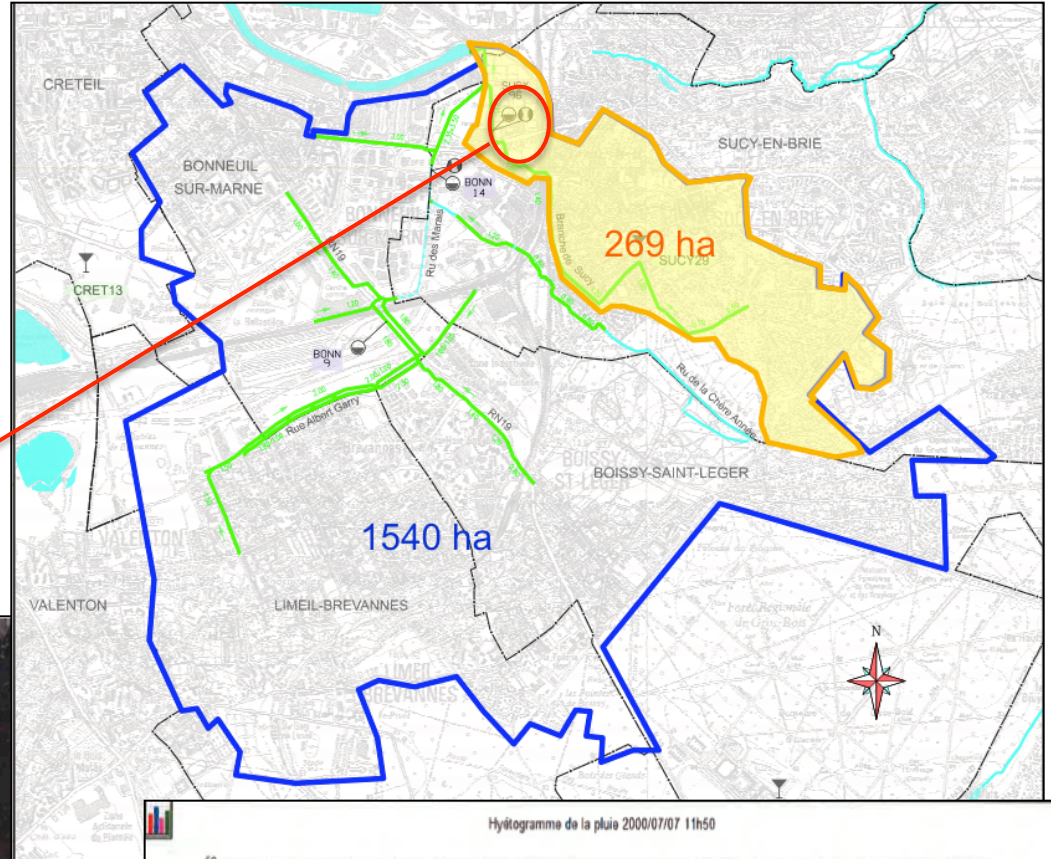
 Sucy sub-catchment

- 269 ha
- The outlet is in the Marne river

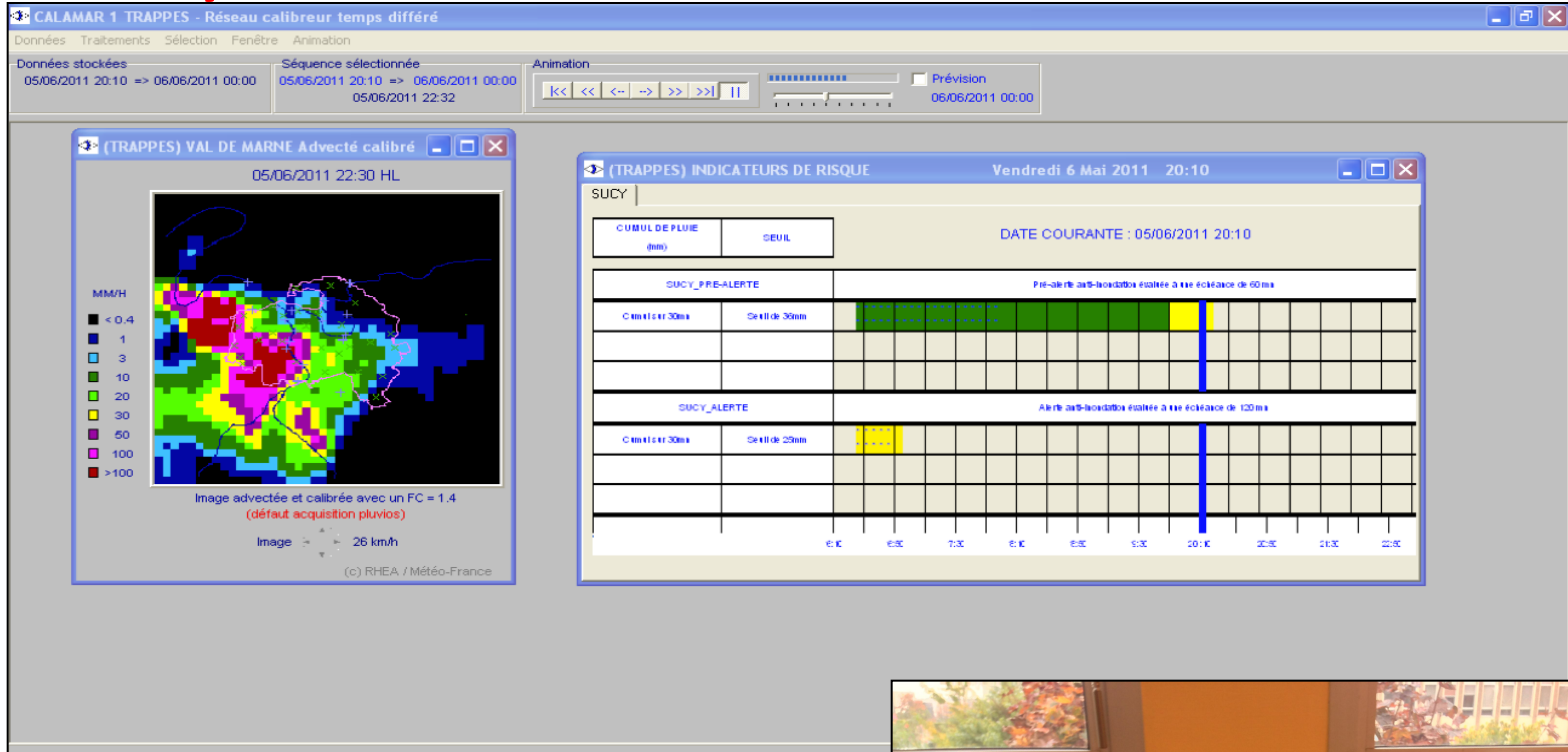


Pluvial flooding

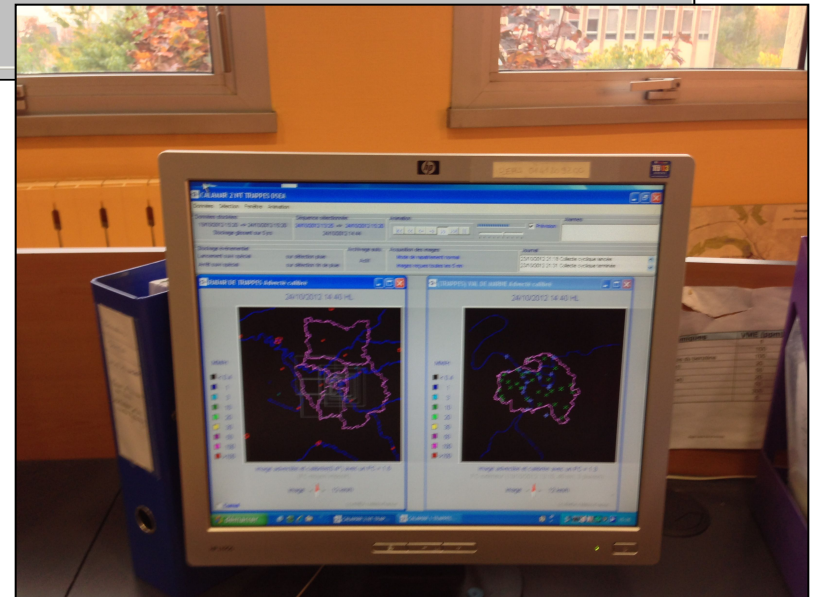
- 7 July 2000 ==>84 mm
- Streets and houses have been flooded
- Sucy train station has been blocked



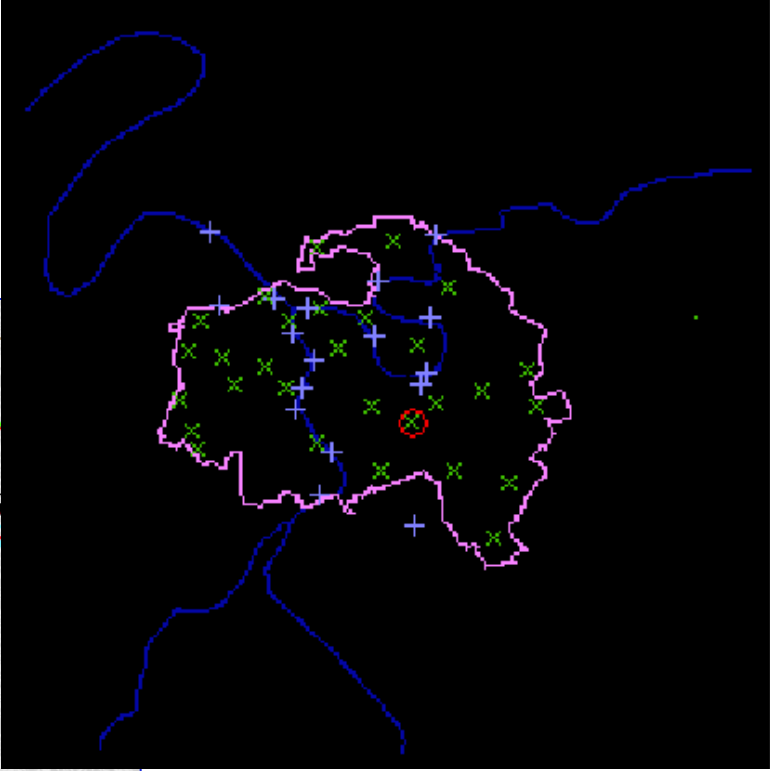
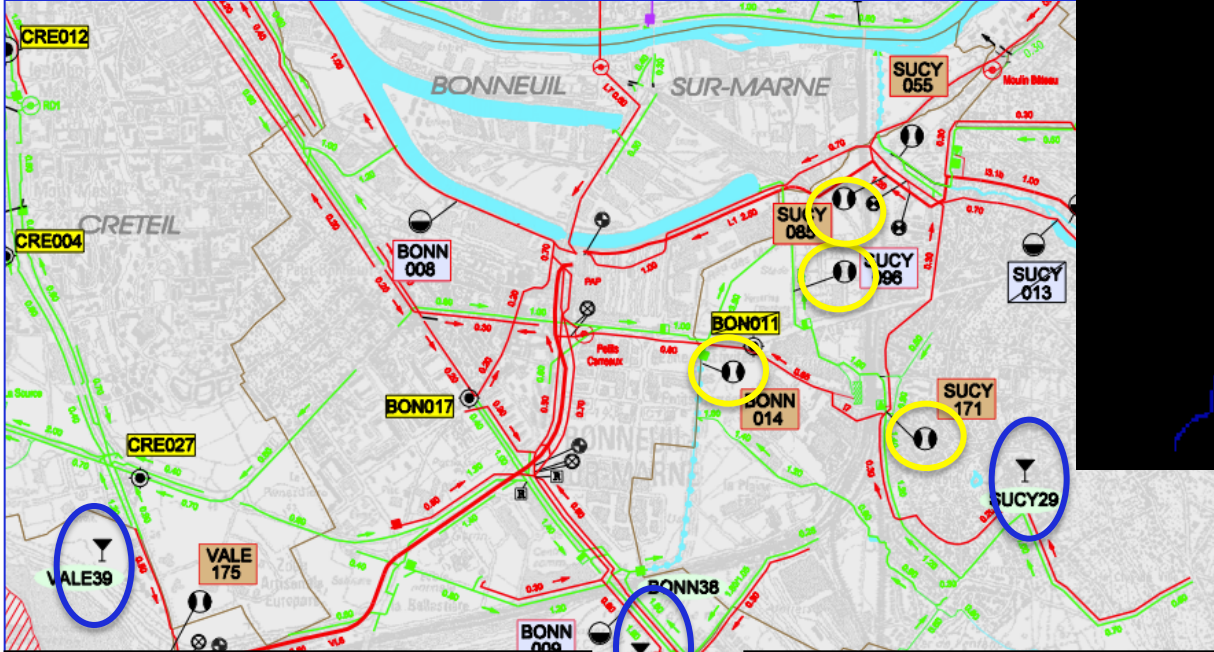
CALAMAR System



- A forecasting system
- Real time calibration
- An important risk of false alarm exists



Monitoring



29 rain gauges



Flow measurement

Rain gauges

Radar data



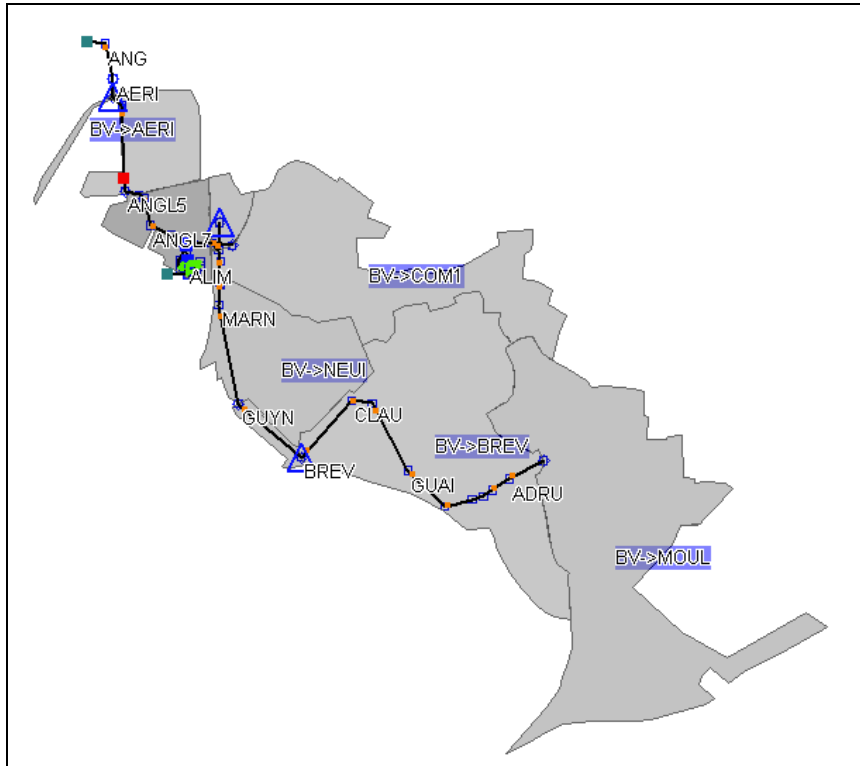
- Météo France C-band radar
- Resolution : 1Km x 1km x 5min

Radar data

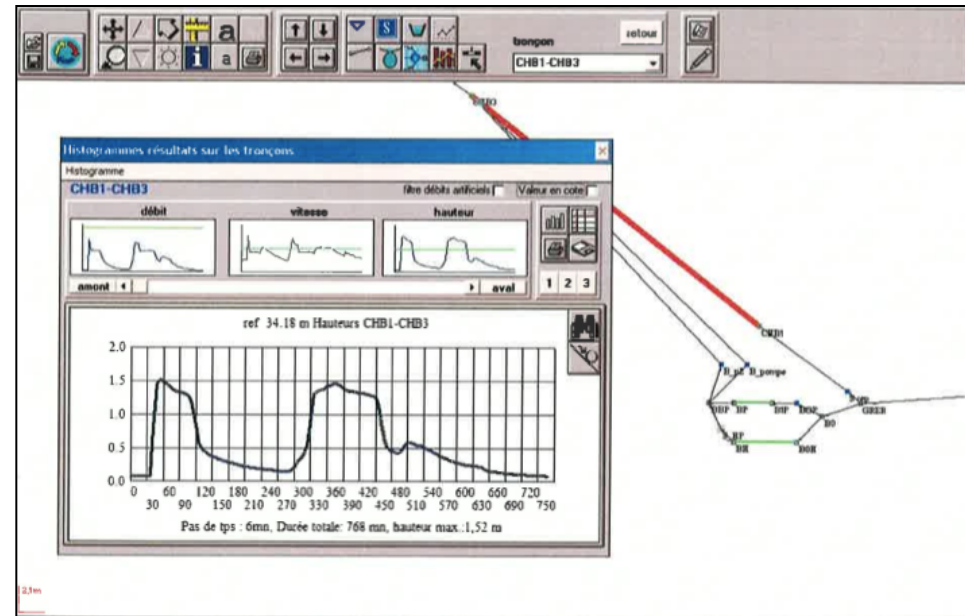


- X-band radar
- Only 10 km far from the Sucy basin
- High resolution

Canoe model



- Canoe model currently in use by the CG94
- Already calibrated



We plan to use Multi-Hydro model in this research study

Thank you for you attention