

North West Flooding 22/23 August 2017 What happened?



Department for

Infrastructure

An Roinn

Bonneagair

www.infrastructure-ni.gov.uk

Met Office – Hazard Manager

6 Hr Rainfall Accumulations

- West to East front
- Most intense rainfall from 22 Aug 22:30



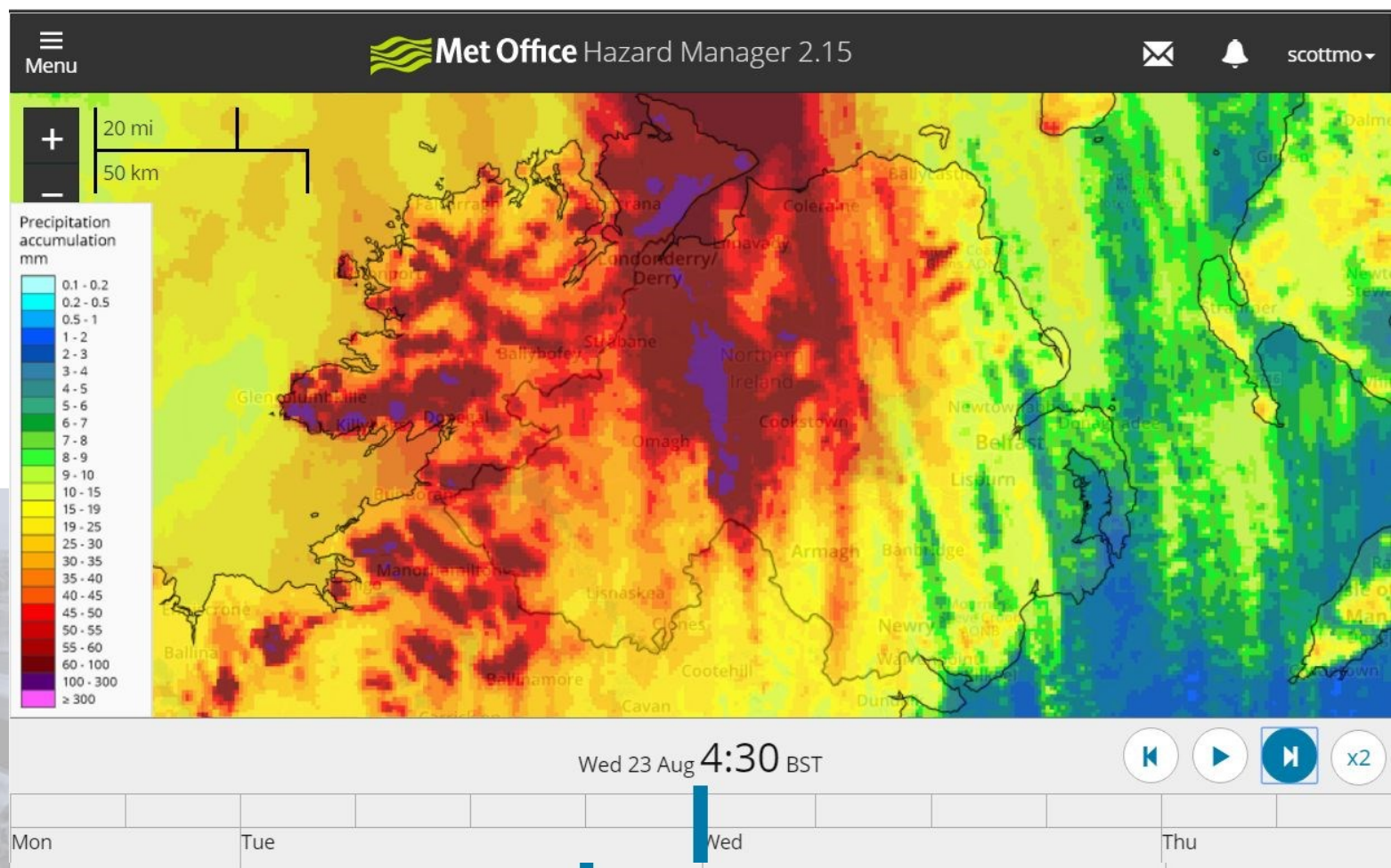
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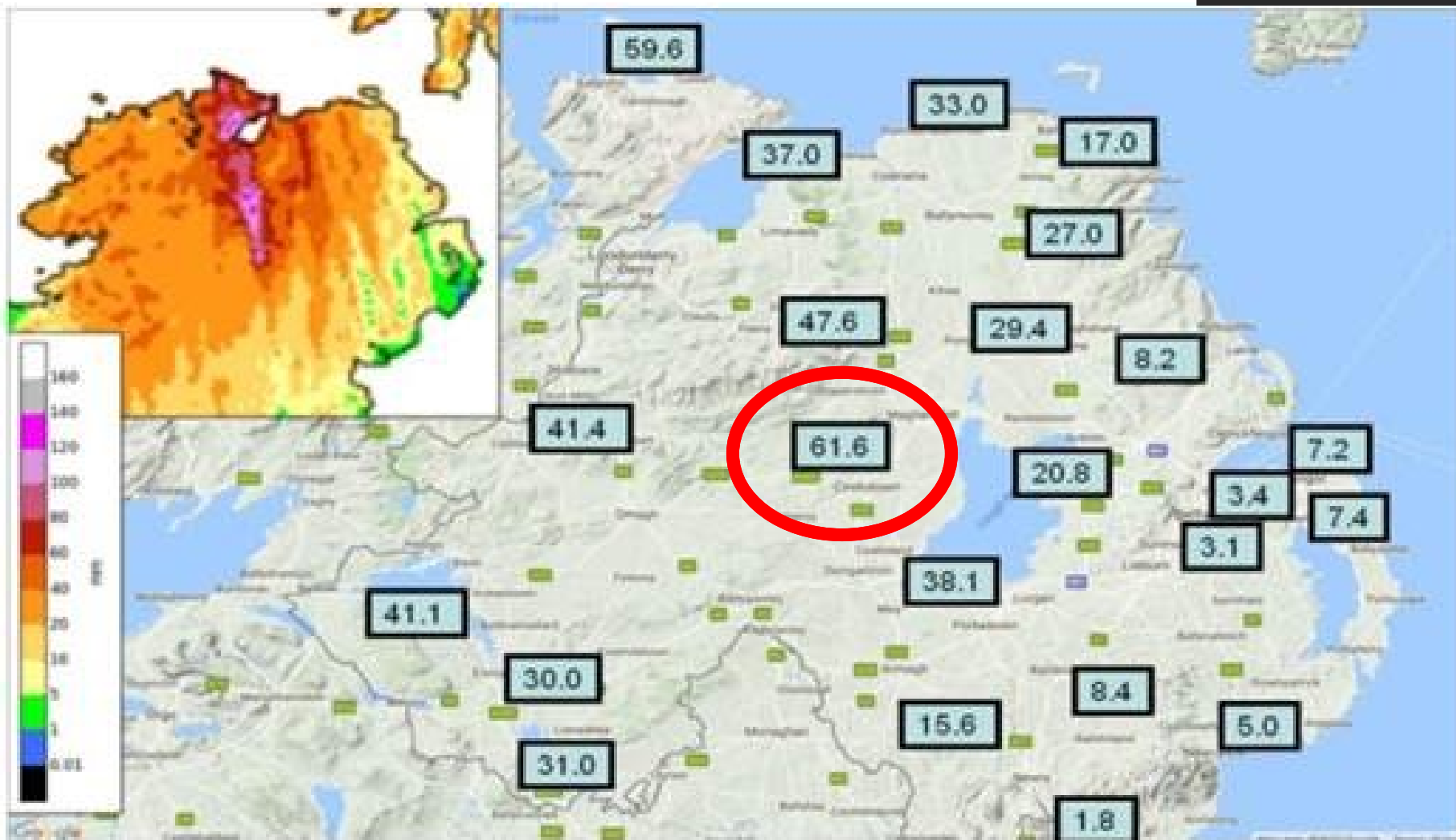


Daily rainfall totals and inferred rainfall (Inset) from radar

Narrow corridor of heaviest rainfall through Co Londonderry/North & East Tyrone.



Met Office



Met Office – Hazard Manager

6 Hr Rainfall Catchment Accumulations

- West to East front
- Most intense rainfall from 22 Aug 22:30



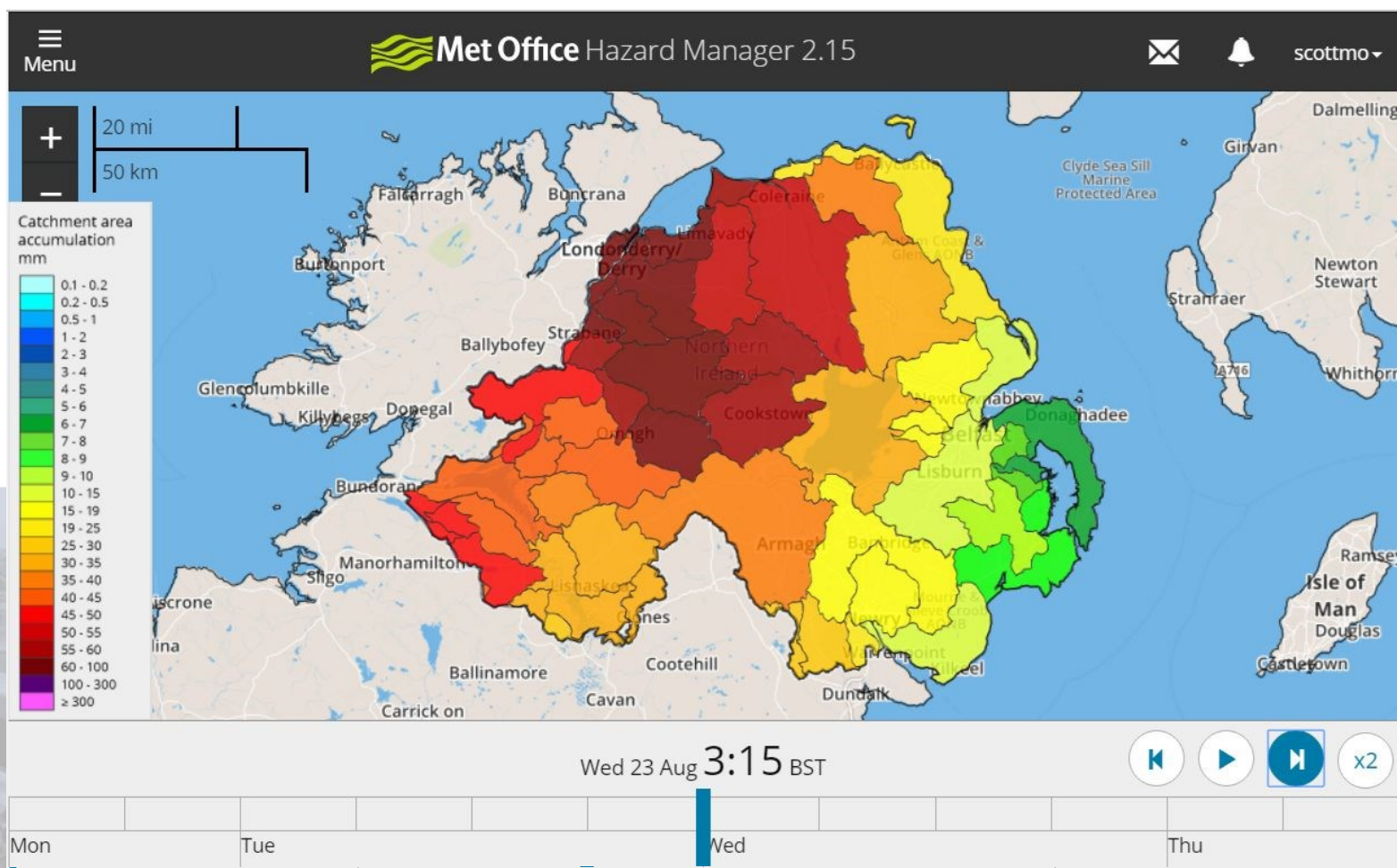
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Hydrology

- 63% of average August rainfall fell in an 8-9 hour period.
- This had a very significant impact not only in terms of the levels the Rivers peaked at but also the rate of water level rise, a critical factor when responding in an emergency.
- The Faughan River (Drumahoe), rose to a level approximately **700mm above the October 1987 level, the previous highest recorded level - rate of rise 2ft per hour.**
- The Muff River (Eglinton, City of Derry Airport) was **450mm above the previous highest level in Dec 11**
- The Burdennett River (Whitewalls & A5) was **500mm above 1987 level, the previous highest**
- All 3 watercourses (and several others) out of bank

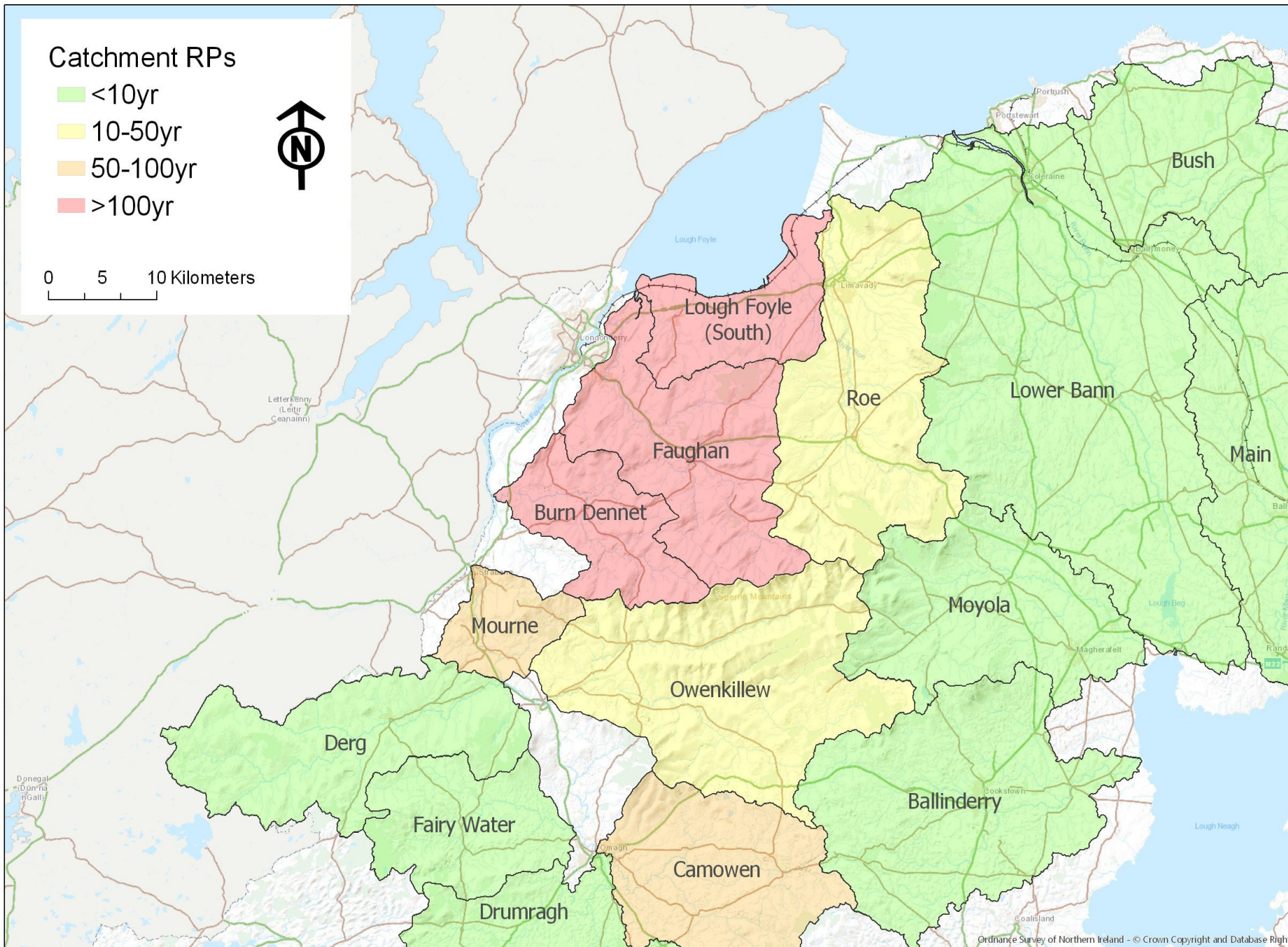


Catchment RPs

- <10yr
- 10-50yr
- 50-100yr
- >100yr



0 5 10 Kilometers



Property Impacts

- Approximately 400 domestic properties flooded
- Approximately 35 Businesses flooded
- Various Community facilities impacted



Ivy Mead, Drumahoe



Three Mile House, Drumahoe

Infrastructure Impacts

Road Network

- 60 roads closed at height of event (additional 150 impacted)
- Around 80% roads now reopened (All A and B routes except B49 Church Street, Claudy)
- Approximately £9million allocated for the repairs

Road Bridges

- 650 bridges in affected area
- Inspections complete
- 90 bridges in need of remedial works – 10 complete to date

Flood Defences

- 50% of 1800m damaged flood defences now repaired
- Repairs completed on: Burndennet, Omagh and River Roe, Limavady
- Repairs ongoing on: Faughan, Drumahoe and Muff River, Eglinton

Hydrometric Network

- Gauging Stations on Faughan at Drumahoe and Owenkillew at Newtownstewart washed away

Agriculture Impacts

- Widespread damage to land
- Widespread damage to field boundaries
- Significant loss of animals



Glenelly Valley





Flood Risk Management

DfI Internal GIS

Multi-Search



257,872 389,778 Meters







Before/after















23/08/2017 17:04



04/10/2017 11:39

Impacts



Drumahoe Road at the Three Mile House



A5 at Burdennett



Plumbridge



Bank Erosion