

## Geographical Information Systems (GIS)

Torrential rains on 26 September, 2009, caused by Tropical Storm Ketsana (“Ondoy”) and on 4 October by Super Typhoon Parma (“Pepang”) resulted in widespread flooding, affecting almost 10 million people according to government figures. As a consequence, the Government of the Republic of the Philippines (GoRP) declared a state of national calamity, an international appeal for assistance was made and key clusters were activated to respond to the effects of the storm in the affected regions.

As part of the services offered by the Logistics Cluster, a GIS officer has been stationed in Manila from 10 October in order to provide up-to-date maps of affected areas to the humanitarian community. With a plotter in Manila, maps can be provided from A4 up to A0 size.

Maps produced to date include:

- Roads Condition Map
- Warehousing
- Laguna Bay
- Areas requested for Aerial Imagery (Google)
- Helicopter movement by province
- Laguna de Bay flooding, roads and admin divisions
- Benguet infrastructure
- Luzon administrative divisions
- Inaccessible areas
- CAR region planning map
- Calanasan orientation map
- Kabugao orientation map
- Malibcong orientation map
- Benguet-Mountain Province orientation map
- Benguet-Mountain Province air orientation map
- Benguet orientation map (& USAID visited locations)
- Master logistical planning map
- Kibungan planning map
- Concept of operations
- Abra orientation map
- Helicopter landing zones
- Flooded areas



*Logistics Planning Map*

- Rizal infrastructure & flooding
- Helicopter landing zones
- Zamboanga Del Sur orientation map
- Laguna floods and infrastructure
- Oxfam GB Activities
- Luzon Administrative divisions map
- UNHAS rotations per region
- Luzon admin divisions

Maps are available through the WFP office in Manila and can be downloaded at [www.logcluster.org/phi09a](http://www.logcluster.org/phi09a)