Flood Mapping

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1. Flood mapping process

Mapping Natural Disasters under Charter Activation

1. Probable flood extent
2. Probable affected villages
Flood map
August 2\textsuperscript{nd} August 18\textsuperscript{th}
Flood map
August 2\textsuperscript{nd} August 18\textsuperscript{th}
2. Limitations

• Flood extent
  • Captures only long-lasting floods. No data for flash flood.
  • No ground truth validation. Threshold?
  • Paddy fields

• Villages
  • Many affected villages at the edge of the probable flood areas
  • Many villages are elevated (few meters). DEM vertical resolution ~5m
  • Village locations from partners are slightly different
  • Village database is incomplete

• Transport and Communication
  • Road network is incomplete. No data on bridges
  • Telecommunication: no data
  • Electricity grid: little data
3. Are these maps useful?

- In theory
  - *Evidence Base*? for operational purpose? Planning?
  - *For Monitoring*? to track flood duration, flag issues and gaps
  - *For Analysis*? to link data from different sources and other data?
  - *For Coordination*? To exchange and link up during assessment and relief aid
  - *For Resource allocation*?
  - *Other*?

- In practice
  - *GAD village list* vs RS analysis
  - *No habit* to use/ read maps
  - *Limited bandwidth and printing* capacity (no plotter)
  - *Little GIS capacity* in the field
4. GAD pragmatic approach

Based on this year flood in Bilin Township:

- Print large maps of the TS. From Survey Department
- Record all flood-affected villages according to the water alert level given by DMH station in Bilin town
- Locate all the affected villages and the population figure on the map
<table>
<thead>
<tr>
<th>VT</th>
<th>Village</th>
<th>Total pop</th>
<th>Affected pop</th>
<th>Houses</th>
<th>Households</th>
<th>Persons</th>
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Thank you for your attention