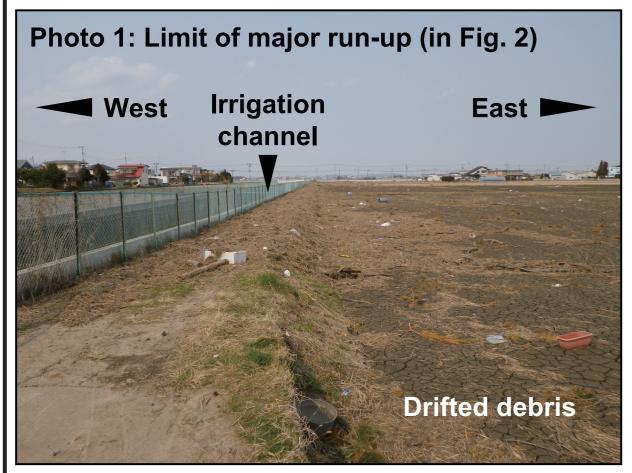
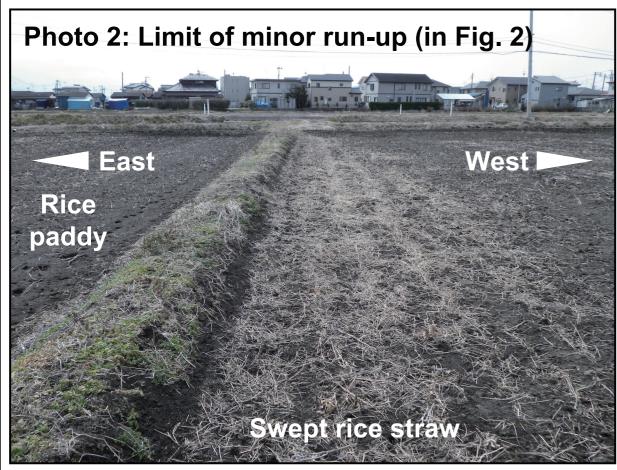
## 4. Post-tsunami survey of inundation area





## Possible factors to decrease run-up distance

- Seaward migration of the coastline (~ 1 km since Jogan ages)
- Breakwaters and coastal forests
- Growth of the sand dunes due to the planting of coastal forests
- Sendai East Expressway (worked partly as breakwater)
- Irrigation channels parallel to the coast (Photo 1; border of major run-up by the 2011 event)

## Possible factors to increase run-up distace

- Character of wave source (fault parameters)
- Coseismic subsidence (observed after the 2011 event<sup>[2]</sup>, same as the 869 event?)
- Roads and channels with shore-normal angle (decrease surface friction)
- Less vegetation during winter season (Jogan event had took place during summer)