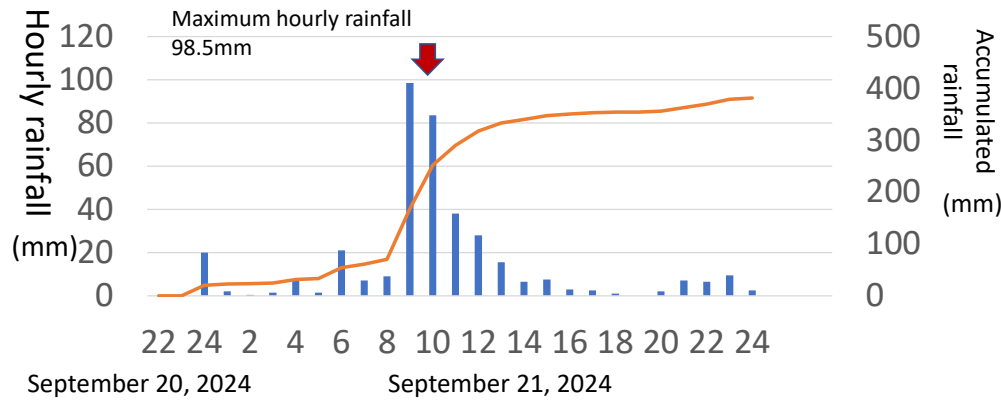


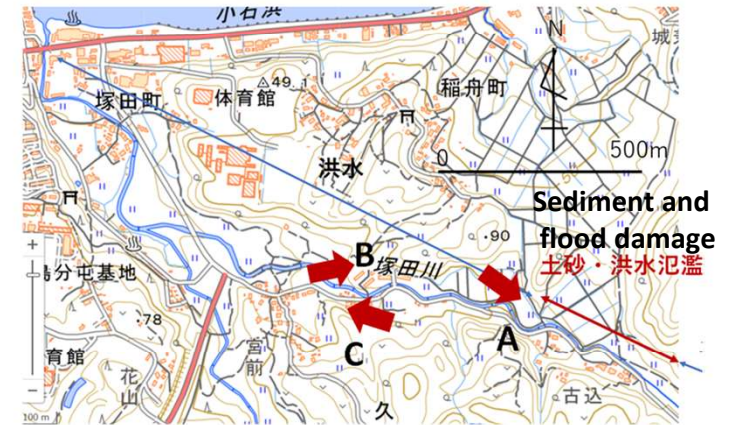
# Sediment and flood damage, and driftwood disaster in Tsukada River (Wajima City) caused by the extreme rainfall in September after the Noto Peninsula earthquake

Hourly rainfall    Accumulated rainfall



Hourly and accumulated rainfall at AMeDAS Waji

Dead 4  
Upstream area    4.0km<sup>2</sup>



A、B: Sediment and flood damage due to bridge blocked by driftwood

C: Loss of houses due to direct hit by sediment and flood:

- Sediment and driftwood from the upstream collapse site caused by the January 2024 earthquake likely caused significant damage.
- Sediment accumulation in the channel caused the channel bed to rise and the channel cross section to decrease. Floodwaters inundated outside the channel for approximately 90% of the channel length.
- Four bridges were blocked by a large amount of driftwood, which caused sediment entrapment and sediment and flood damage of the stream channel upstream of the bridges.
- Floodwaters flowed out of the channel near bridges blocked by driftwood, and the flow was concentrated near houses, resulting in human and house damage.