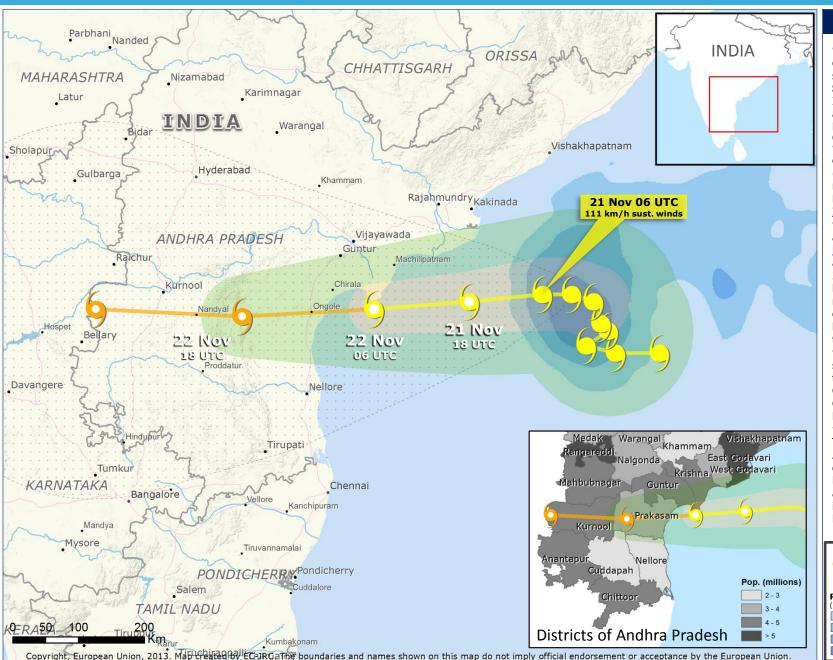
21 Nov 2013: India – Tropical Cyclone HELEN





SITUATION

• HELEN is approaching the coast of Andhra Pradesh, SE India, with strength equivalent to a **Tropical Storm** (Severe Cyclonic Storm in India). At 06 UTC on 21 Nov it had a max. sust. wind speed of 111 km/h, ca. 250km from the coast. (GDACS)

 It is forecast to approach the coast in the morning of 22 Nov (UTC), slightly weakened, and make landfall near the city of Machilipatnam, according to Indian Meteo Department.

 Heavy rainfall is expected to accompany HELEN's passage; <u>NASA/eTRaP</u> forecasts locally amounts of more than 200mm in 24h. IMD warns for heavy to very heavy, locally extreme (> 250mm) rainfall over coastal Andhra Pradesh on 22-23 Nov, and heavy to very heavy in the area of Hyderabad and the south of the state.

• According to IMD, a possible storm surge of 1 to 1.5m could threaten the low-lying areas of Guntur, Krishna and East and West Godavari districts during landfall.

PAST TROPICAL CYCLONES

• The region is vulnerable to Tropical Cyclones effects: In 2010, JAL made landfall near Chennai, only as a Deep Depression. However, 54 people died in India and significant damage was inflicted in southern Andhra Pradesh, particularly in Nellore.

