

French Polynesia

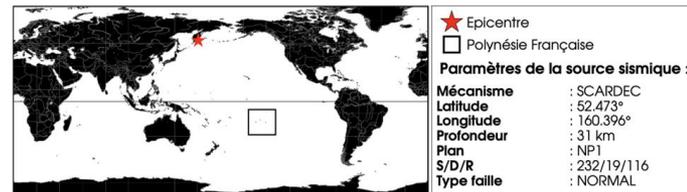
PTWS post event briefing
29/07/2025 Kamchatka Tsunami Event

- 3 updated forecast
- Final forecast chosen by comparison against DART observation.
- 3 tsunami warning levels
 - ◆ No threat - (< 30cm)
 - ◆ Marine advisory - (30cm -1m) - 3 Islands
 - ◆ Minor Tsunami threat warning - (1m - 3m) - 3 Islands

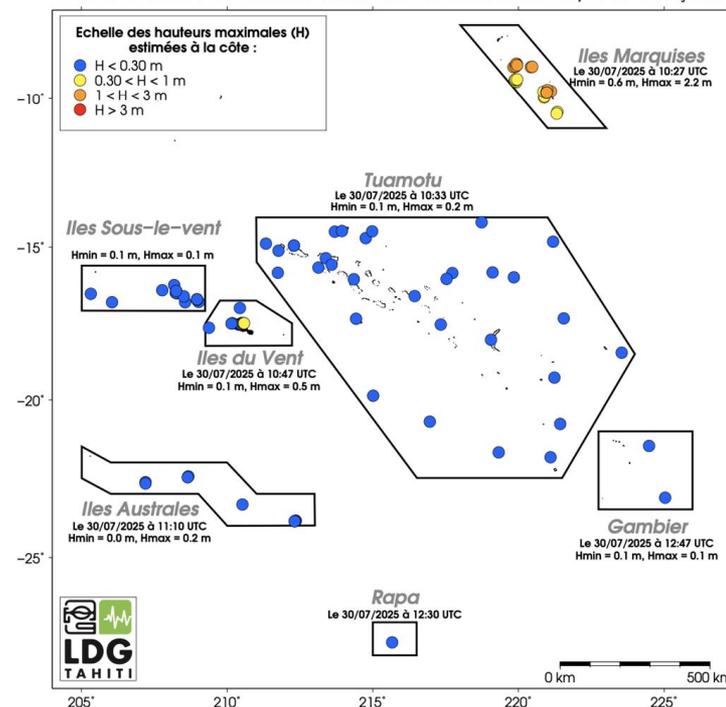
Off East Coast of Kamchatka, Mw = 8.7 le 29/07/2025 à 23H24 UTC

- Synthèse des estimations des hauteurs min/max du tsunami attendues en Polynésie Française.
- Heure de la première arrivée du tsunami pour chaque région ou archipel.

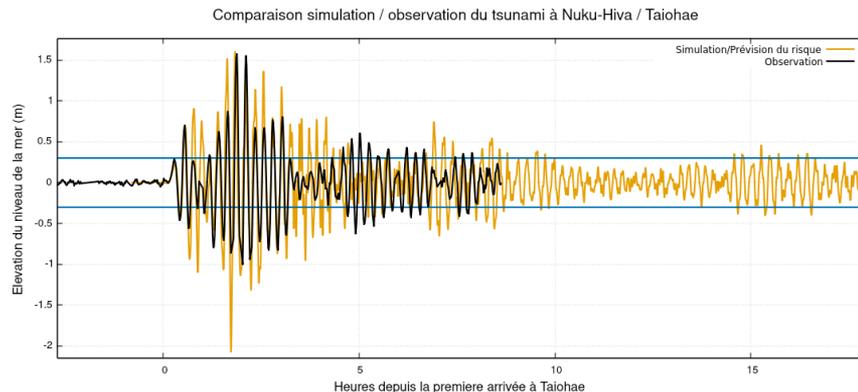
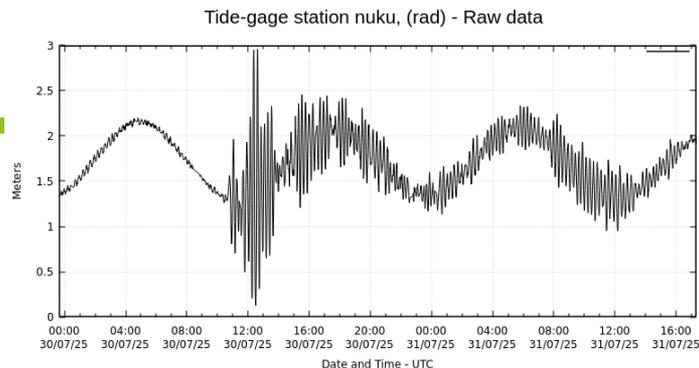
(Pour plus de détail, les cartes d'inondations de chaque île sont disponibles sur demande.) LDG Tahiti / CPPT



Heure d'arrivée et hauteurs du tsunami attendues en Polynésie Française



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- First operational use of new forecasting tools
(*Jamelot et al, 2025 to be submitted*)
- Maximal arrival time and tsunami late arrival forecasted, easier evacuation management
- Post event observation over tide gages confirmed forecast, impact minimized because of low tide

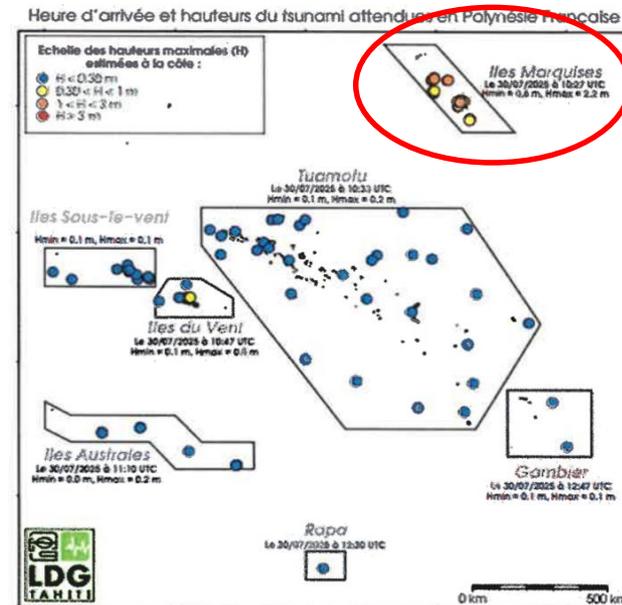


On going field survey at Nuku-Hiva, testimonies and run up measurement are above 2,15 m in Taipivai Bay.

Timeline of the alert (UTC-10)

- 13:24 : Kamchatka earthquake 8,8 Mw
- 13:38 : 1st alert email from Geophysical Laboratory of Tahiti
- 14:14 : 1st water height estimate (max WH = 4.60 m)
- 14:30 : Internal crisis meeting
- 16:00 : 1st full crisis meeting (max WH revised at 2.20 m)
 - Activation of the « TSUNAMI Response plan »
 - 1st SITREP and 1st press release
- 19:00 : 2nd crisis meeting => 2nd SITREP & press release
 - Ban on nautical activities on the Marquesas
 - Evacuation of coastline on 3 main affected islands
- 21:00 : 3rd crisis meeting => 3rd SITREP & press release
- 22:30 : population alerted via SMS & activation of sirens in the Marquesas
- 00:30 : 1st impacts on the Marquesas Islands
-
- 12:30 : End of crisis posture

No threat for all rest of French Polynesia
because LDG forecast was < 30 cm



Threatened population: 6119

Nuku Hiva - Hiva Oa - Ua Huka

Security Levels in French Polynesia

- ▲ H < 0.3m : no tsunami risk
- ▲ 0.3m < H < 1m : targeted evacuation
- ▲ 1m < H < 3m : coastline evacuation
- ▲ H > 3m : vertical evacuation

Key lessons

- No victims or damages.
- Slow-moving event => calm and organized crisis management.
- “Tsunami Response Plan” proved effective.
- Annual exercises are crucial => Last exercise on June, 3rd, 2025 with all contributing services.
- Alert tools are essential : sirens / government SMS system (FR-ALERT)
- Effective communication with :
 - Mayors and state services : SMS before official announcements.
 - Public : press releases (forecasts, measures and guidelines).
- Accurate forecasts (Tahiti Geo Lab) => appropriate decisions.

