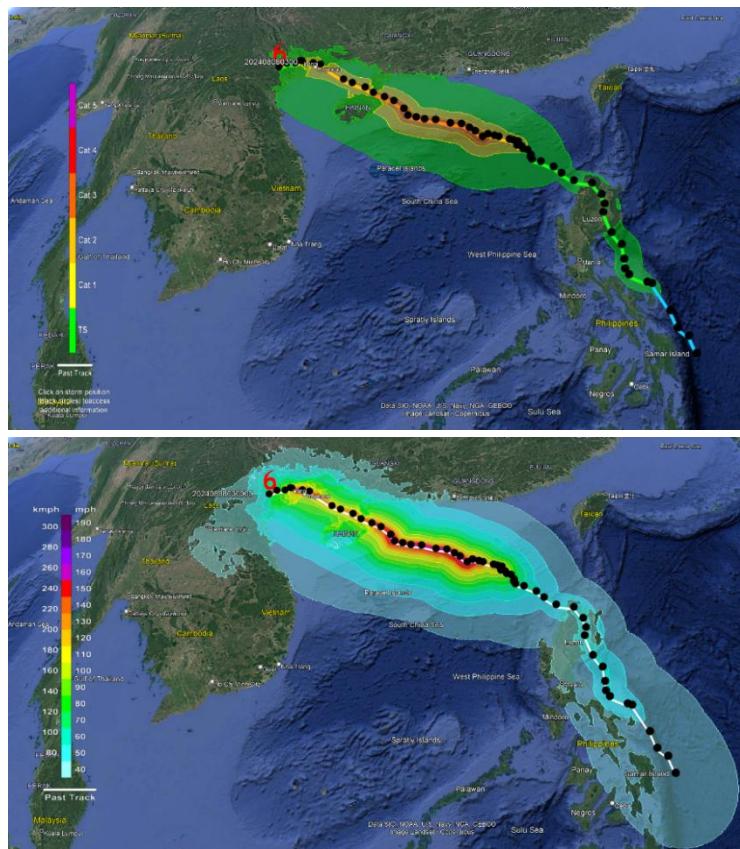


Post-Event Wind and Gust Footprints

TSR offers immediate post-event windfield and gustfield footprints for tropical storms, hurricanes, typhoons, and cyclones. This data provides insight into which regions are most-likely impacted by damaging winds from tropical cyclones, by showcasing real-time wind and gust swaths created through the storm's lifetime up to and including the latest advisory. Wind footprints accurately represent storm impacts, categorising winds into Tropical Storm (TS) and wind categories based off of regional wind scales, while gusts are depicted with speeds in kilometres or miles per hour. By visually depicting the extent of storm-related hazards, from strong winds to powerful gusts, this tool aids in post-event assessment, facilitating efficient response and recovery efforts.



Post-event footprints for Typhoon Yagi, 8th September, 2024 03:00). The post-event Windfield (above) shows the historical wind speed categories as per JMA's wind scale. Binary scales are useful for aligning damage with insurance policies. The post-event Gustfield (below) is scale-agnostic and shows the most damaging winds on a wider extent.

- Early and more-accurate loss estimation.
- Effective event response and post-event planning.
- Maps the regions affected by sustained winds of tropical storm strength and Cat 1-5 strengths, and by three-second maximum gusts of 40-190 mph at 10 mph intervals.
- Excellent real-time accuracy (assessed against station wind observations from 2017-2021).
- Includes data from NHC, JTWC, and advisories from regional agencies for high-frequency updates.
- Outperforms US National Hurricane Centre's forecast wind probability product due to TSR's inclusion of surface roughness and topographic correction at landfall, more-detailed wind information, and the inclusion of gust, which is usually the more damaging factor.
- Data available for historical events back to January 2008.