



Verification and value of wave forecast for water sports

Wave Forecast Verification and Utility for Water Sports in the Norwegian Coastal Area The Norwegian water sports community comprises approximately a thousand surfers and several thousand other enthusiasts. For these groups, accurate wave forecasts in coastal areas are crucial for decision-making related to sports competition scheduling, beach visits, and safety assessments. My primary focus is on surfers, who require precise information on significant wave height (SWH), swell direction, period, and wind and primary swell accuracy. Accurate forecasts of flat or small wave conditions are essential for other sports, such as swimming. Modern advances in technology and open-source hardware projects enable individuals to build and deploy wave sensors as in-situ observation loggers. Such end-user observations provide valuable information for classical wave model verification, typically done using open-sea measurements. In the summer of 2024, bottom-based pressure sensors were deployed near popular beaches. The colle

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