
SWIM ocean waves spectra : illustration of performances

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Résumé

A summary of the current state of SWIM L2 ocean waves spectra is presented from a geophysical point of view. These are based on a diagnostic tool that allows for the statistical comparison of large amounts of SWIM spectra. Averages of ocean waves spectra are analyzed by sea-state conditions and processed into various moments, thus providing a full picture of observed ocean waves, from the longest to the shortest, including directionality. Use cases are presented that provide insights into various performances assessment questionings: beam to beam performances, smallest resolved ocean wave length, comparison with modelled wave spectra (MFWAM), SAR (Sentinel-1) and existing literature among others.

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