

Supporting Information for ”Wave Runup over Steep Rocky Cliffs”

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Additional Supporting Information (Files uploaded separately)

1. ds01.dat
2. ds02.dat
3. ds03.dat
4. ds04.dat
5. ds05.dat
6. ds06.dat
7. ds07.dat

Introduction This supporting information provides all the processed data used for the analysis and for the generation of the figures. It includes seven files: (1) The time-series of wave parameters measured by the directional waverider DWR (ds01.dat); (2) the time-series of water elevation measured by the bottom-mounted pressure sensor SBE, concatenated with the time-series of water elevation simulated at the same location by the circulation model MARS [*Lazure and Dumas, 2008*] (ds02.dat); (3) the profile elevation (ds03.dat); and (4-7) the time-series of 2% exceedance level of shoreline elevation at P1 (ds04.dat), P2 (ds05.dat), P3 (ds06.dat) and P4 (ds07.dat), and the associated wave parameters simulated with the spectral wave model WAVEWATCH3 [*Tolman, 2014*] at P0;

Data Set S1. Time-series of wave parameters measured by the directional waverider DWR

Data Set S2. Time-series of water elevation measured by the bottom-mounted pressure sensor SBE, concatenated with the time-series of water elevation simulated at the same location by the circulation model MARS

Data Set S3. Elevation of the cross-shore profile

Data Set S4. Time-series of 2% exceedance level of shoreline elevation at P1 and associated wave parameters simulated with the spectral wave model WAVEWATCH3 at P0;

Data Set S5. Time-series of 2% exceedance level of shoreline elevation at P2 and associated wave parameters simulated with the spectral wave model WAVEWATCH3 at P0;

Data Set S6. Time-series of 2% exceedance level of shoreline elevation at P3 and associated wave parameters simulated with the spectral wave model WAVEWATCH3 at P0;

Data Set S7. Time-series of 2% exceedance level of shoreline elevation at P4 and associated wave parameters simulated with the spectral wave model WAVEWATCH3 at P0;

References

Lazure, P., and F. Dumas (2008), An external/internal mode coupling for a 3d hydrodynamical model for applications at regional scale (MARS), *Advances in Water Resources*, 31(2), 233–250, doi:10.1016/j.advwatres.2007.06.010.

Tolman, H. L. (2014), User manual and system documentation of WAVEWATCH III version 4.18, *NOAA/NWS/NCEP/MMAB Technical Note 316*, (276), 194.