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Multi-satellite wind products

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Storm surge modeling strongly depend on the applied meteorological forcing. Coastal wind set-ups relate directly to the wind stress over the basin. Both magnitude and direction are important. Space borne radar scatterometers such as ASCAT and SeaWinds provide key observational data to provide a realistic wind forcing, both indirectly and directly by respectively, being assimilated in Numerical Weather Prediction models and by sensing the wind patterns in further detail. Radar altimeters provide additional observations of wind speed, significant wave height and sea level variability. This presentation gives an overview of available data and international cooperations to combine this data and to develop products with an enhanced spatial and temporal resolution.