

**Problems and Applications of Satellite Scatterometer Wind Data on
the Mediterranean Sea**

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The experience achieved in using the Seasat scatterometer data in the Mediterranean Sea is presented focusing on both meteorological and oceanographic (storm surge) applications.

The general problem of scatterometer validation in small basins is also discussed in describing the methodology and giving examples applied to the Adriatic Sea. Implications for the ERS-1 mission are then considered.

Finally, the problem of wind retrieval is outlined according to the results of the experimental ESA C-band campaigns and of the more recent theoretical formulations of the equation linking the Normalized Radar Cross Section to the wind speed and direction.