



# Deutschland

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 60 pages. Original publisher: Seattle, WA : U. S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Office of Oceanic and Atmospheric Research, Pacific Marine Environmental Laboratory, 2007 OCLC Number: (OCoLC)157032633 Subject: Tsunamis -- Mathematical models -- Evaluation -- Standards. Excerpt: . . . NOAA tsunami numerical model standards 11 3. 2 Model accuracy constraints The accuracy of any given model depends on how well the computational procedure represents the correct solution of the parent equations of motion. When exact solution exist ( as, for example, for certain cases of the linear and nonlinear shallow water-wave equations ), the determination of the accuracy of a solution algorithm is straightforward, i. e. , through comparisons of the numerical results with the analytical predictions. Determining maximum run up numerically within 5 of the analytical solution is now possible with a handful of models. For most bathymetries of geophysical interest, analytical solutions do not exist, and it is unlikely that they will ever be determined, due to the complexity of the physical terrain. However, a few laboratory models at smaller scale than the prototype exist: for example, the scale model of Okushiri Island, as described earlier. The Catalina Island, Los Angeles, 2004 model validation workshop of the National Science Foundation identified a handful of models that could predict the laboratory measurements within 10 . While greater compliance with measurements is hoped for in the next decade, 10 accuracy is achievable now and should be considered a standard. While an numerical model may be validated through comparisons with analytical results and laboratory data, this does not necessarily imply physical realism for tsunamis of geophysical scales. One example is wave

## Reviews

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