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INFORMATION  
SCIENCES

Simulation

■ Researcher information

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Major

Computational Fluid Dynamics, Fluid Physics, Environmental Sciences

■ Research topics

## Computational Fluid Dynamics and Numerical Simulation

### Keywords

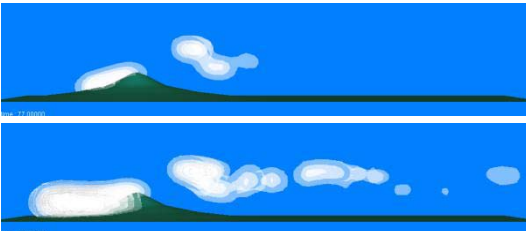
Numerical Simulation, Computational Fluid Dynamics, Environmental Sciences, Energy Sciences

### Contents

■ Overview : Numerical simulation has unlimited potential as the third method for research together with theoretical and experimental methods. We treat various problems concerned with fluid mechanics and fluid physics appearing in sciences and technologies. Special attentions are paid to environmental and energy problems.

■ Case Studies (see below)

■ Applications : applicable to all fields of sciences and technologies Potential of social/industrial contribution



1) Generation of clouds by the flow over a mountain



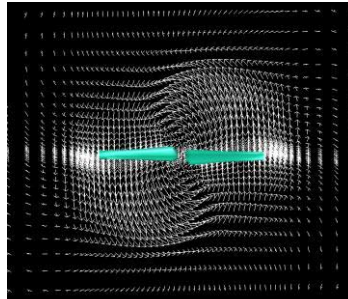
2) Circulation of gas in Jupiter



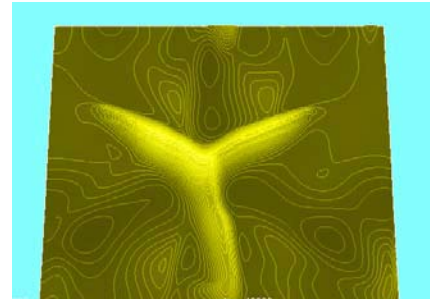
3) Air flow in the kitchen



4) Wind past buildings of Ochanomizu Univ.



5) Flow near the wind turbine



6) Sand dune of star shape