

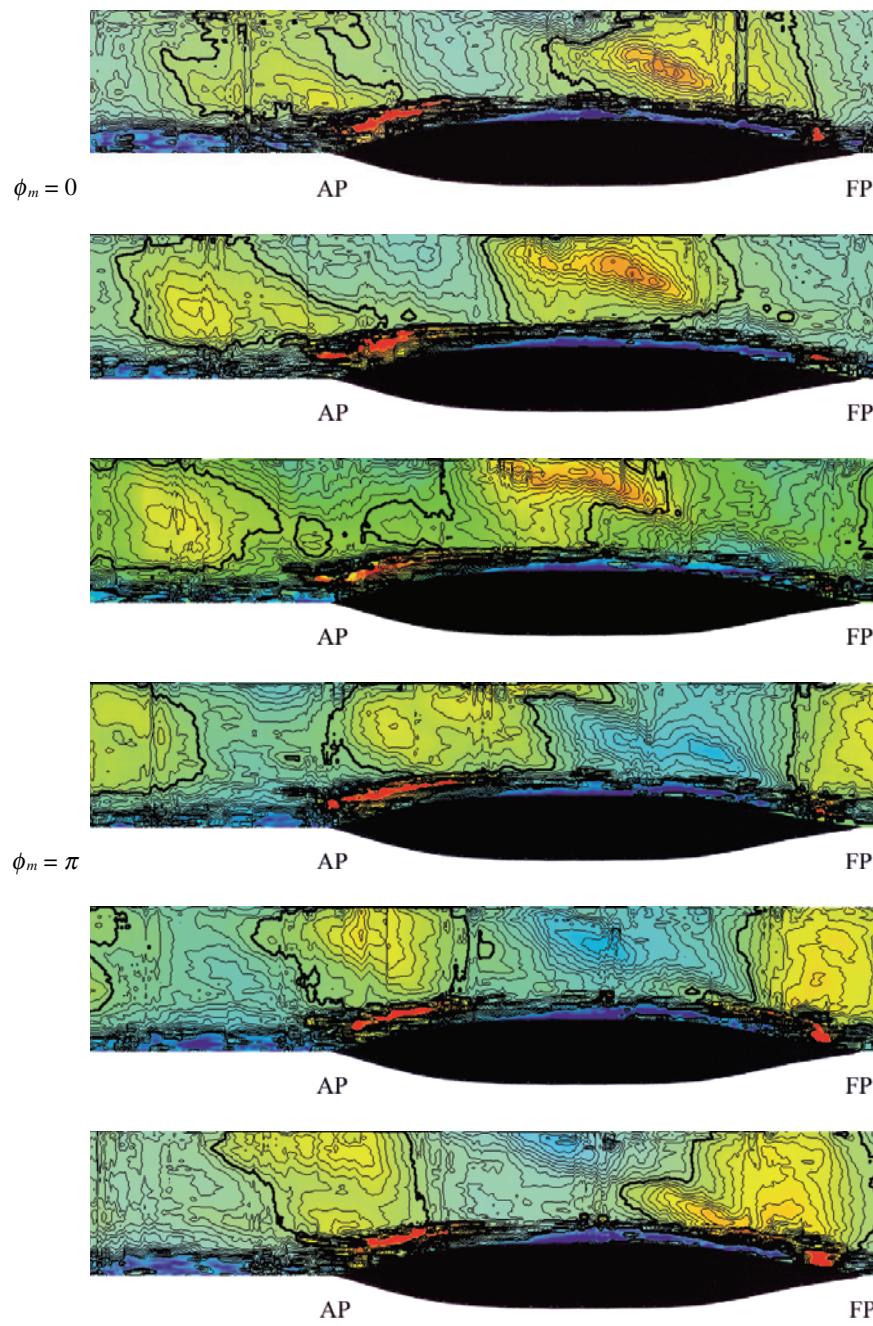
7. Image Measurement of Wave Height Distribution around a Ship Hull in Regular Wave

Nishio, S.¹⁾, Nakao, S.²⁾ and Okuno, T.³⁾

1) Dept. of Maritime Science, Kobe University of Mercantile Marine, Kobe, Japan

2) Toyota Motor Corporation, Toyota, Japan

3) Dept. of Marine System Engineering, Osaka Prefecture University, Sakai, Osaka, Japan



The wave height distribution around ship hull in regular wave is measured using visualized image. The wave profile on a laser light sheet is visualized by the difference of light scattering between air and water. The wave pattern around a ship model in regular wave changes periodically, and the conditional sampling based on the encountering phase of the incident wave and ship gives the wave profile at specified wave phase. The system enables to obtain the wave height distribution in regular wave in practical consuming time for the measurement. The figures show the measured wave height distribution through one period of encountering.