

General Information

- Please add the *initial of your first name* and *your surname* + "_" in the beginning of each file name. For example, if your name is John Smith, a file *fig1_1-01.eps* should be *jsmith_fig1_1-01.eps*
- Please archive all of your figure files and integral data files for all cases into one zipped file. The file name should be *your first name initial* and *your surname* + ".zip". For example, if your name is John Smith, the file name is *jsmith.zip* .
- The archived file should be uploaded to the FTP server of NMRI via FTP. User account name and password are required to login the server. Please contact the organizer (cfdfs05@nmri.go.jp) to obtain these informations.

Integral variables

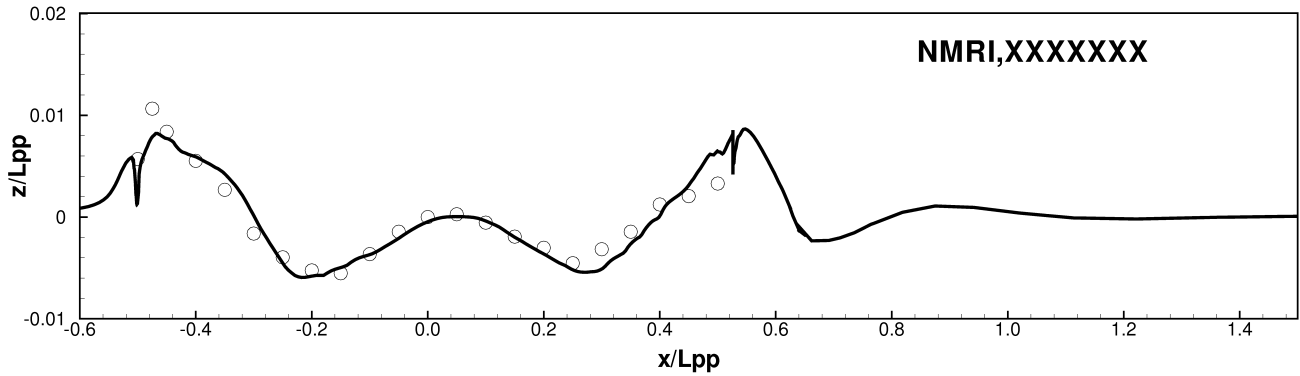
File name	int1_1.dat
Style	plain text

The data should be written as following format:

CT = *value*
 CP = *value*
 CF = *value*
 Usn of CT = *value*
 Uv of CT = *value*
 E of CT = *value*

Fig.1.1-1 Wave profile on the hull

File name	fig1.1-01.eps
Axis size	160 [mm] × 40 [mm]
Horizontal-axis variable and range	$-0.6 \leq x/L_{PP} \leq 1.5$
Vertical-axis variable and range	$-0.01 \leq z/L_{PP} \leq 0.02$
Style	CFD solid line, EFD open circles
Measured data file	waveprof.dat

**Fig.1.1-2 Uncertainty analysis of wave profile on the hull**

File name	fig1.1-02.eps
Axis size	160 [mm] × 40 [mm]
Horizontal-axis variable and range	$-0.6 \leq x/L_{PP} \leq 1.5$
Vertical-axis variable and range	$-0.6 \leq E/\zeta_{range}, \pm U_V/\zeta_{range} \leq 0.6$
Validation scale	elevation range along the hull, $\zeta_{range} = 0.015$
Style	E solid line, $\pm U_V$ dashed lines

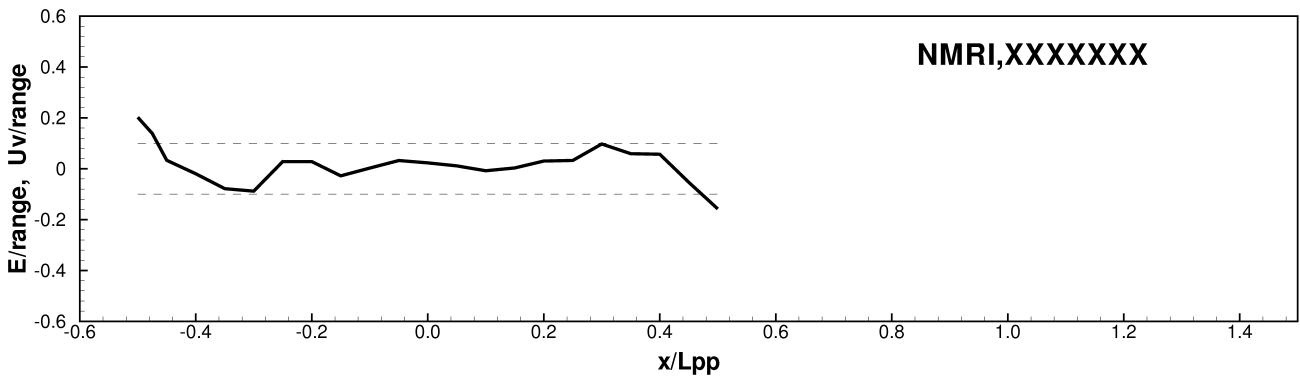
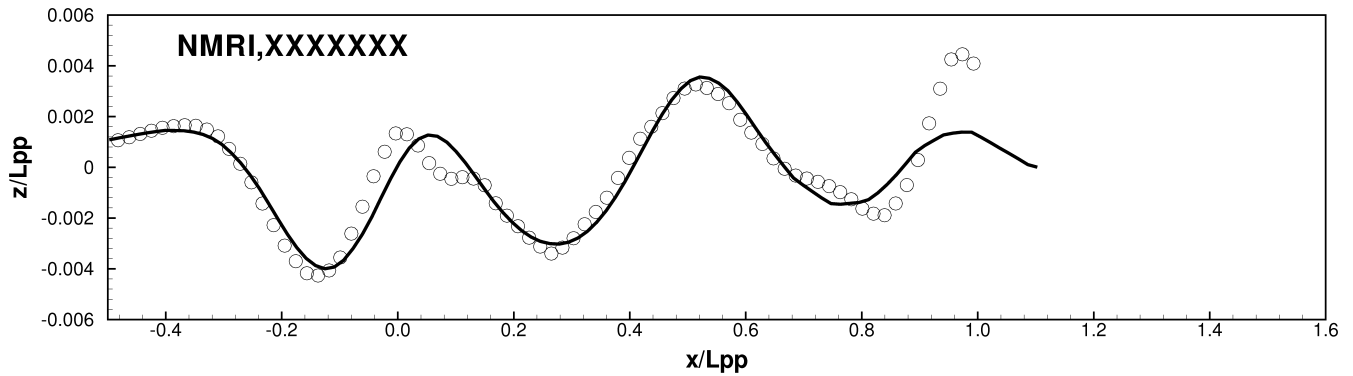


Fig.1.1-3 Longitudinal wave cut at $y/L_{PP} = 0.1509$

File name	fig1.1-03.eps
Axis size	160 [mm] × 40 [mm]
Horizontal-axis variable and range	$-0.5 \leq x/L_{PP} \leq 1.6$
Vertical-axis variable and range	$-0.006 \leq z/L_{PP} \leq 0.006$
Style	CFD solid line, EFD open circles
Measured data file	wave_cut.dat

**Fig.1.1-4 Uncertainty analysis of longitudinal wave cut at $y/L_{PP} = 0.1509$**

File name	fig1.1-04.eps
Axis size	160 [mm] × 40 [mm]
Horizontal-axis variable and range	$-0.5 \leq x/L_{PP} \leq 1.6$
Vertical-axis variable and range	$-0.6 \leq E/\zeta_{range}, \pm U_V/\zeta_{range} \leq 0.6$
Validation scale	elevation range along the hull, $\zeta_{range} = 0.015$
Style	E solid line, $\pm U_V$ dashed lines

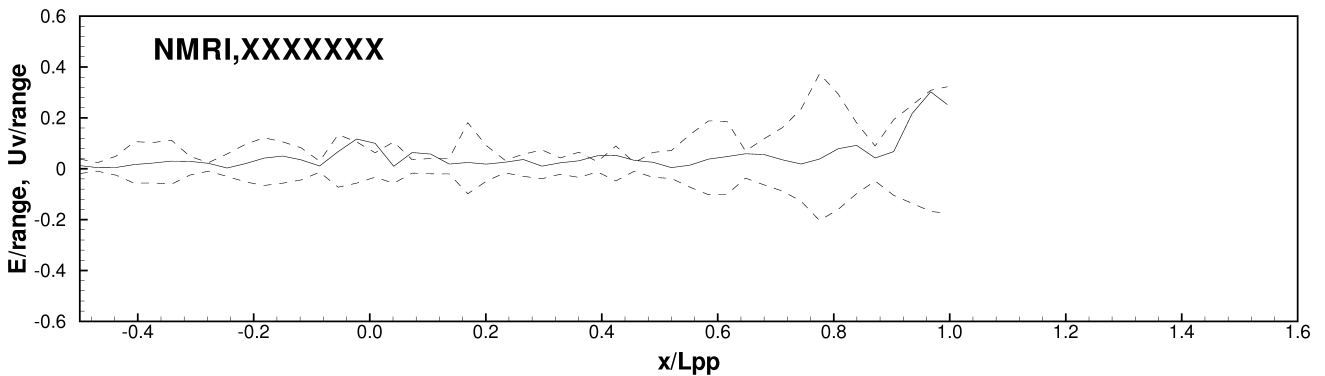
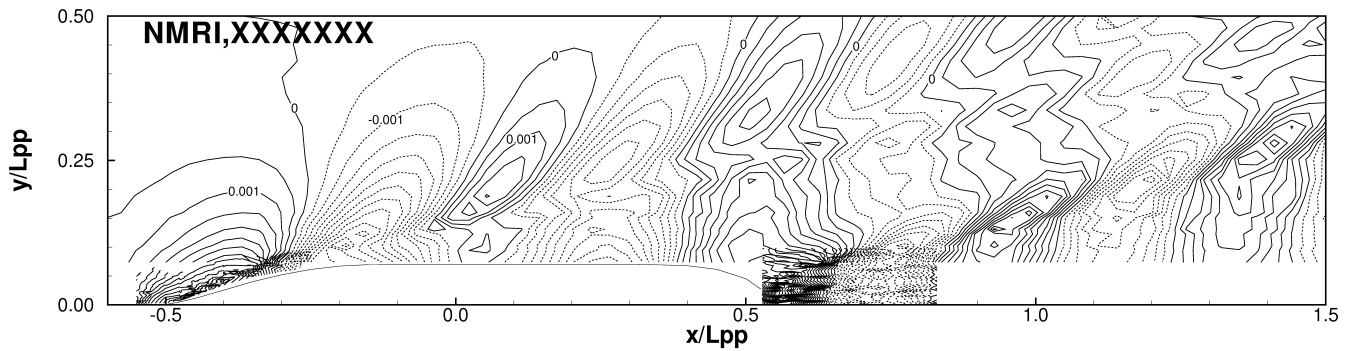


Fig.1.1-5 Wave-elevation contours (global wave field)

File name	fig1.1-05.eps
Axis size	160 [mm] × 38.1 [mm]
Horizontal-axis variable and range	$-0.6 \leq x/L_{PP} \leq 1.5$
Vertical-axis variable and range	$0 \leq y/L_{PP} \leq 0.5$
Contour levels	$\Delta(z/L_{PP}) = 0.0005$
Style	crest solid lines; troughs dashed lines

**Fig.1.1-6 Wave-elevation contours (bow wave field)**

File name	fig1.1-06.eps
Axis size	80 [mm] × 60 [mm]
Horizontal-axis variable and range	$-0.5 \leq x/L_{PP} \leq -0.34$
Vertical-axis variable and range	$0 \leq y/L_{PP} \leq 0.12$
Contour levels	$\Delta(z/L_{PP}) = 0.0005$
Style	crest solid lines; troughs dashed lines

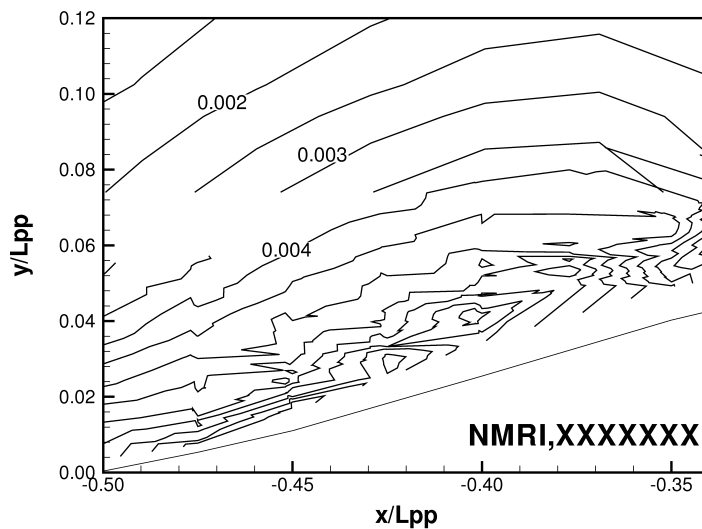
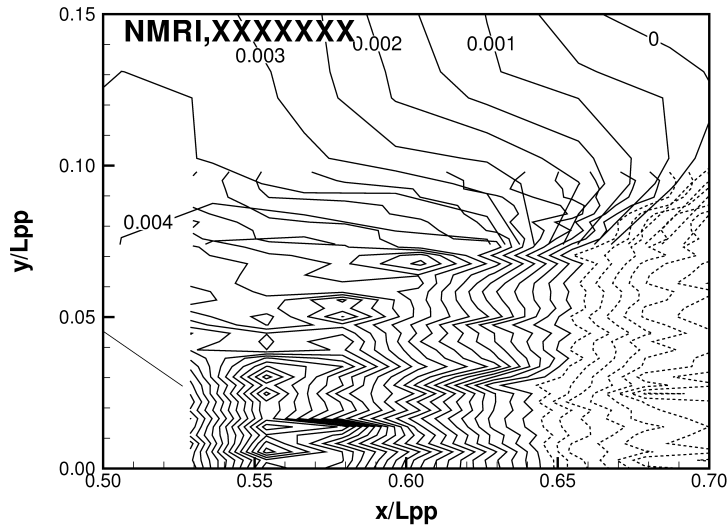


Fig.1.1-7 Wave-elevation contours (stern wave field)

File name	fig1.1-07.eps
Axis size	80 [mm] × 60 [mm]
Horizontal-axis variable and range	$0.5 \leq x/L_{PP} \leq 0.7$
Vertical-axis variable and range	$0 \leq y/L_{PP} \leq 0.15$
Contour levels	$\Delta(z/L_{PP}) = 0.0005$
Style	crest solid lines; troughs dashed lines

**Fig.1.1-8 Axial velocity contours and cross flow vectors
downstream of the propeller plane ($x/L_{PP} = 0.4911$)**

File name	fig1.1-08.eps
Axis size	80 [mm] × 60 [mm]
Horizontal-axis variable and range	$-0.04 \leq y/L_{PP} \leq 0.04$
Vertical-axis variable and range	$-0.055 \leq z/L_{PP} \leq 0.005$
Reference vector	magnitude 0.1 corresponds to 2 [mm]
Contour levels	$\Delta(u/U) = 0.1$
Style	u/U contours left side; ($v/U, w/U$) vectors right side

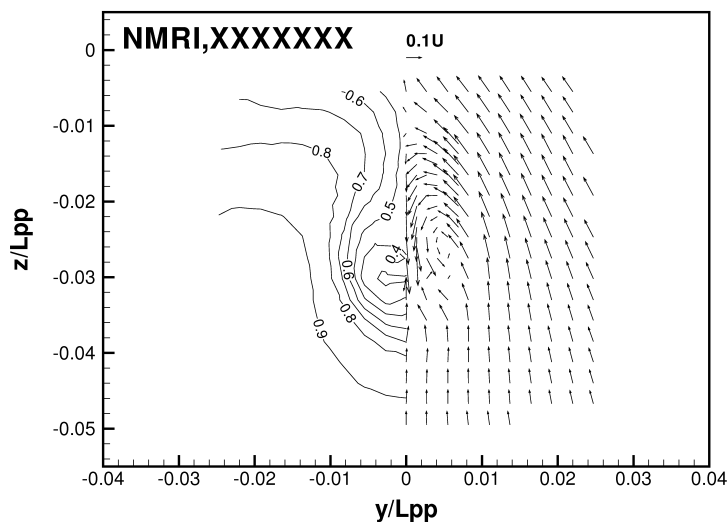
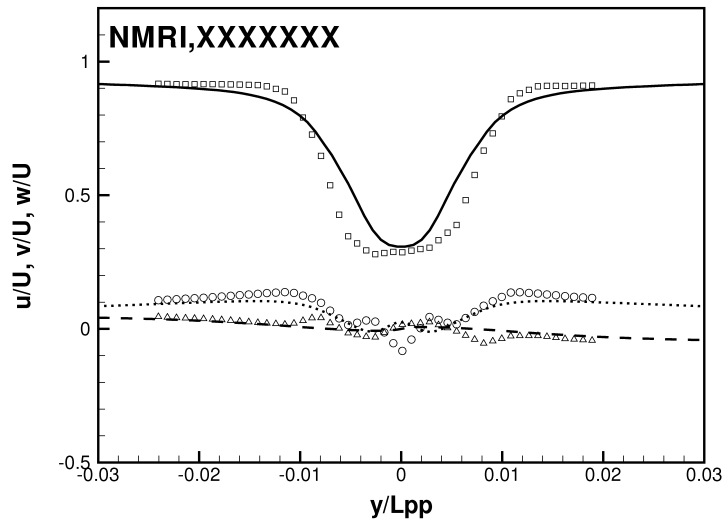


Fig.1.1-9 Velocity downstream of the propeller plane ($x/L_{PP} = 0.4911$) at $z/L_{PP} = -0.03$

File name	fig1.1-09.eps
Axis size	80 [mm] × 60 [mm]
Horizontal-axis variable and range	$-0.03 \leq y/L_{PP} \leq 0.03$
Vertical-axis variable and range	$-0.5 \leq u/U, v/U, w/U \leq 1.2$
Style	u/U : CFD solid line; EFD open squares v/U : CFD dashed line; EFD open triangles w/U : CFD dotted line; EFD open circles

**Fig.1.1-10 Uncertainty analysis of velocity downstream of the propeller plane ($x/L_{PP} = 0.4911$) at $z/L_{PP} = -0.03$**

File name	fig1.1-10.eps
Axis size	80 [mm] × 60 [mm]
Horizontal-axis variable and range	$-0.03 \leq y/L_{PP} \leq 0.03$
Vertical-axis variable and range	$-0.3 \leq E/U, \pm U_V/U \leq 0.15$
Style	u/U : E solid line; U_V dashed line v/U : E dash dot line; U_V dotted line w/U : E long dashed line; U_V dash double dot line

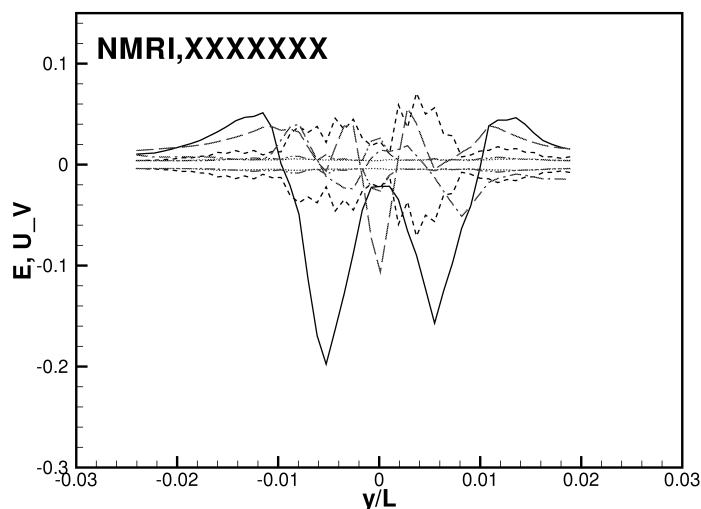


Fig.1.1-11 Hull surface pressure contours (side view)

File name	fig1.1-11.eps
Axis size	125 [mm] × 30 [mm]
Horizontal-axis variable and range	$0.3 \leq x/L_{PP} \leq 0.55$
Vertical-axis variable and range	$-0.05 \leq z/L_{PP} \leq 0.01$
Contour levels	$\Delta C_p = 0.01$
Style	(+) solid lines; (-) dashed lines

