

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 (cfdws05@nmri.go.jp) to obtain these informations.

Integral variables

File name	int1_2.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.1.2-1 Wave profile on the hull

File name	fig1_2-01.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	$-0.01 \leq z/L_{PP} \leq 0.025$
Style	CFD solid line, EFD open circles
Measured data file	wpro2340.dat

Fig.1.2-2 Uncertainty analysis of wave profile on the hull

File name	fig1_2-02.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, $\zeta_{range} = 0.02$
Style	E solid line, $\pm U_V$ dashed lines

Fig.1.2-3 Longitudinal wave cut at $y/L_{PP} = 0.172$

File name	fig1_2-03.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	$-0.01 \leq z/L_{PP} \leq 0.01$
Style	CFD solid line, EFD open circles
Measured data file	0172cut.dat

Fig.1.2-4 Uncertainty analysis of longitudinal wave cut at $y/L_{PP} = 0.172$

File name	fig1_2-04.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 cut, $\zeta_{range} = 0.01$
Style	E solid line, $\pm U_V$ dashed lines

Fig.1.2-5 Wave-elevation contours (global wave field)

File name	fig1_2-05.eps
Axis size	160 [mm] × 64 [mm]
Horizontal-axis variable and range	$-1 \leq x/L_{PP} \leq 1.5$
Vertical-axis variable and range	$0 \leq y/L_{PP} \leq 1$
Contour range and levels	$-0.005 < z/L_{PP} < 0.016$, $\Delta(z/L_{PP}) = 0.0005$
Style	crest solid lines; troughs dashed lines

Red line is corrected at 07/Dec/2004

Fig.1.2-6 Wave-elevation contours (bow wave field)

File name	fig1_2-06.eps
Axis size	80 [mm] × 60 [mm]
Horizontal-axis variable and range	$-0.53 \leq x/L_{PP} \leq -0.33$
Vertical-axis variable and range	$0 \leq y/L_{PP} \leq 0.15$
Contour range and levels	$-0.005 < z/L_{PP} < 0.016$, $\Delta(z/L_{PP}) = 0.001$
Style	crest solid lines; troughs dashed lines

Fig.1.2-7 Wave-elevation contours (stern wave field)

File name	fig1_2-07.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	$-0.005 < z/L_{PP} < 0.016$, $\Delta(z/L_{PP}) = 0.001$
Style	crest solid lines; troughs dashed lines

**Fig.1.2-8 Axial velocity contours and cross flow vectors
downstream of the propeller plane ($x/L_{PP} = 0.435$)**

File name	fig1_2-08.eps
Axis size	75 [mm] × 30 [mm]
Horizontal-axis variable and range	$-0.1 \leq y/L_{PP} \leq 0.1$
Vertical-axis variable and range	$-0.07 \leq z/L_{PP} \leq 0.01$
Reference vector	magnitude 0.1 corresponds to 2 [mm]
Contour range and levels	$0 \leq u/U \leq 1$, $\Delta(u/U) = 0.1$
Style	u/U contours left side; $(v/U, w/U)$ vectors right side

Fig.1.2-9 Velocity downstream of the propeller plane
 $(x/L_{PP} = 0.435)$ at $z/L_{PP} = -0.02$

File name	fig1_2-09.eps
Axis size	120 [mm] × 48 [mm]
Horizontal-axis variable and range	$0 \leq y/L_{PP} \leq 0.07$
Vertical-axis variable and range	$-0.6 \leq u/U, v/U, w/U \leq 1.05$
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.1.2-10 Uncertainty analysis of velocity
downstream of the propeller plane $(x/L_{PP} = 0.435)$ at $z/L_{PP} = -0.02$

File name	fig1_2-10.eps
Axis size	120 [mm] × 48 [mm]
Horizontal-axis variable and range	$0 \leq y/L_{PP} \leq 0.07$
Vertical-axis variable and range	$-0.1 \leq E/U, \pm U_V/U \leq 0.1$
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.1.2-11 Hull surface pressure contours (side view)

File name	fig1_2-11.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

