

命令模式

HEel [*±] Φ

Sets the vessel heel, optionally relative to its current value.

设定船舶横倾角，也可以通过相对于当前横倾角的变化值来设定。

HEel MAXRA

Sets the heel to the angle of maximum righting arm on the current axis.

在当前转轴下，设定横倾角为复原力臂最大时的角度。

HEel RAO

Sets the heel to the angle of vanishing righting arm ("second intercept") on the current axis.

在当前转轴下，设定横倾角为稳性消失角(即风倾力矩与回复力矩的第二交点)。

参数说明

Φ

Heel angle in degrees; positive to starboard, negative to port. $-180^\circ \leq \Phi \leq 180^\circ$

横倾角，以角度为单位；右倾为正，左倾为负， $-180^\circ \leq \Phi \leq 180^\circ$ 。

Definition: Heel is the rotation of a model about the heeling axis. It is best visualized in a body plan as the angle between the baseline and the line representing the waterplane on each section. When the AXIS angle is 0° or 180° , the heeling axis is the same as the model's longitudinal baseline. The heeling axis respects any rotation around the vertical axis applied by the AXIS command.

定义：横倾角是船舶模型绕横倾轴旋转的角度。最为直观的就是各横剖面上基线与水线面之间的夹角。如果 $AXIS=0$ 或 180 度，横倾轴与基线的纵向轴一致。AXIS 命令设定了纵向轴绕着垂向轴转动的角度，横倾角根据此转动后来量取。

Operation

操作

The heel angle is set as indicated. It may also be set relative to its current value by using the form *± Φ . For example,

可直接指定一个横倾角。也可以通过相对于当前横倾角度增加或减少某角度值*± Φ 来设定横倾角。

HEEL *+10s

moves the heel angle 10 degrees toward starboard from its original value. (Note that no spaces may be included between the asterisk and the number.)

基于当前横倾角度向右舷方向增加 10 度。（注意星号*和数值间无空格）。

The heel angle may also be set according to a predefined roll angle. For example,

横倾角也可以根据已知的横摇角 roll 来设置，例如：

HEEL *-ROLL

changes the heel angle by the amount of the roll angle in the direction counter to the initial heel angle (this is true whether "-" or "+" is used)

改变当前横倾角，使得当前横倾角的改变量为横摇角 roll 的角度。（此处可用“-”或者“+”）。

In the case where a wind GUST factor has been defined (see the HMMT command), the higher heeling moment is automatically turned on as a result of setting the heel using ROLL. Any other form of the heel command will switch the GUST heeling moment off.

当风倾力矩设置了阵风系数 GUST 时（参看 HMMT 命令），如使用了横摇角 roll 来设置横倾角，则风倾力矩自动加大。任何其他形式的横倾命令都将关闭 GUST 横倾力矩。

Output:

输出

none.

无

Examples

样例

Setting heel 14° to starboard:

设定右倾 14 度:

```
HEEL = 14
```

Setting heel 30° to port:

设定左倾 30 度:

```
HEEL = 30P
```

Upside down heel:

使船翻转，横倾 180:

```
HEEL = 180
```

Setting the heel to the angle after rolling:

设定横倾角度为 IMO 规定的横摇角:

```
ROLL IMO
```

```
HMMT WIND /CONST /GUST: 1.5
```

```
SOLVE
```

```
HEEL = *-ROLL
```

Setting heel to the angle of vanishing righting arm:

设定横倾角为稳性消失角:

HEEL RAO