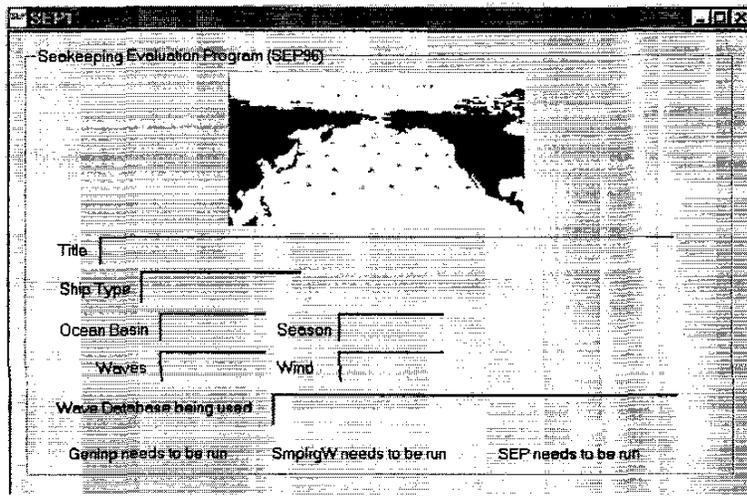


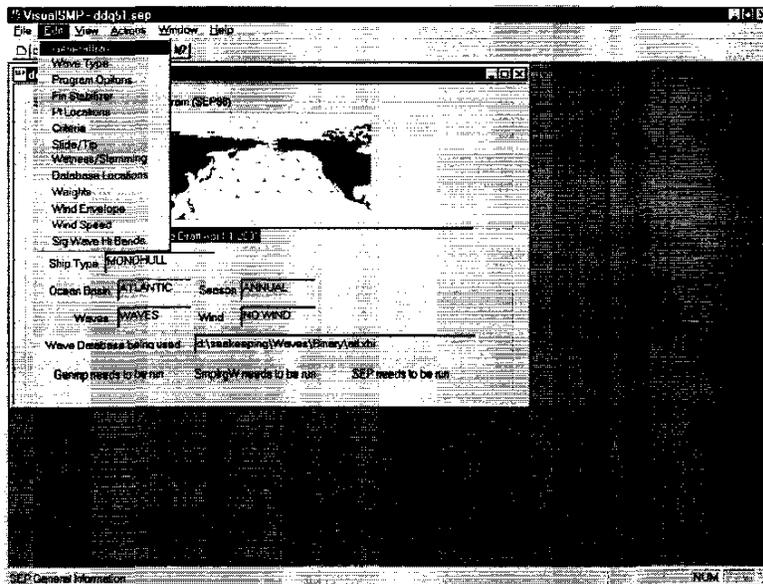
## 9 Seakeeping Evaluation Program

The SEP module is run by either opening an existing SEP run file (\*.sep) or creating a new SEP run file. If creating a new SEP wave run, the module assumes that the regular wave input file, <filename.inp>, is located in the current directory. The standard Windows File menu interface controls both actions.

The input to be developed for the SEP module consists of seaway definitions, environmental information, and point locations for motion calculations. The actual input of this data into VisualSMP is accomplished via a series of Windows dialog forms, which are accessed via the Edit menu. The data record sets required for the SEP Module is described below. Units used for the SEP input file must be consistent with those found in the regular wave file.

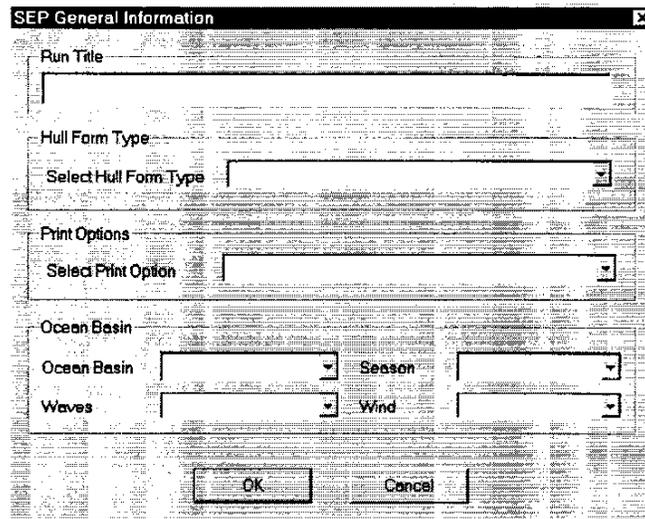


### 9.1 Edit



The edit menu allows the user to select a dialog for entering the data specific to the users project. Generally the user will start with General Info and work down the menu, however the user may enter data in any order.

### 9.1.1 General Information



SEP General Information

Run Title

Hull Form Type

Select Hull Form Type

Print Options

Select Print Option

Ocean Basin

Ocean Basin

Season

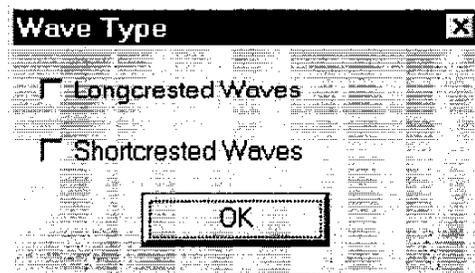
Waves

Wind

OK

Cancel

### 9.1.2 Wave Type



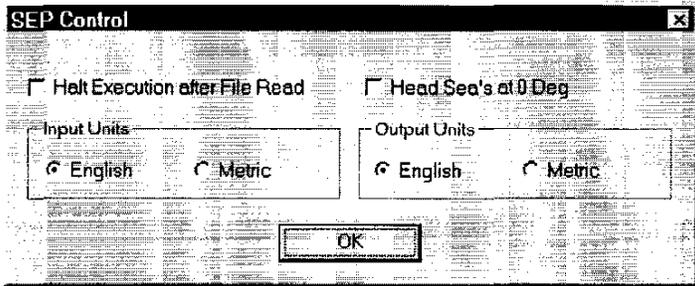
Wave Type

Longcrested Waves

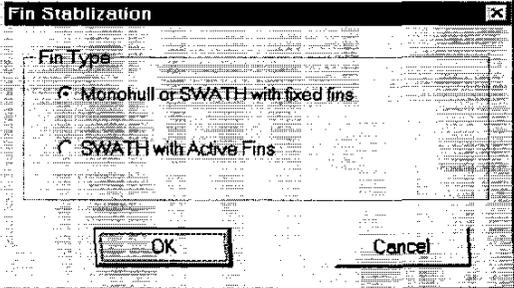
Shortcrested Waves

OK

### 9.1.3 Program Options



9.1.4 Fin Stabilizer



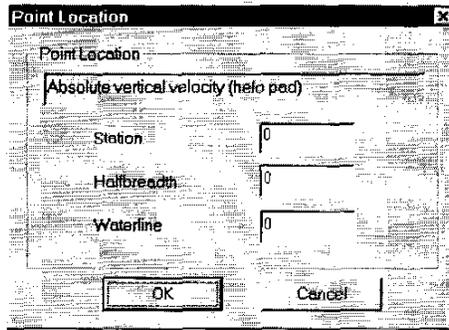
9.1.5 Point Locations

Location of Analysis Points

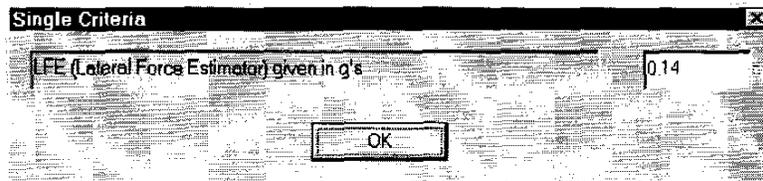
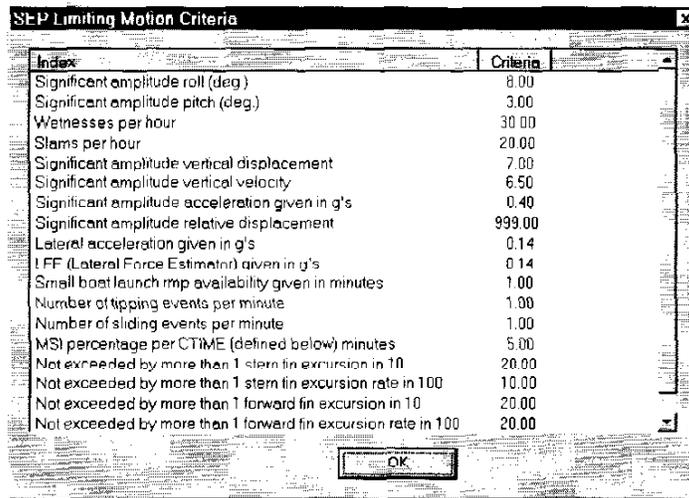
Points

Index	Station	Halfbreadth	Waterline
Location associated Wetnesses	0.00	0.00	0.00
Location associated Slams	0.00	0.00	0.00
Location associated Absolute vertical disp...	0.00	0.00	0.00
Location associated Absolute vertical velo...	0.00	0.00	0.00
Location associated Absolute vertical acc...	0.00	0.00	0.00
Location associated Relative vertical displ...	0.00	0.00	0.00
Location associated Lateral acceleration	0.00	0.00	0.00
Location associated Lateral force estimator	0.00	0.00	0.00
Location associated with Small Boat Ramp	0.00	0.00	0.00
Location associated with tipping	0.00	0.00	0.00
Location associated with sliding	0.00	0.00	0.00
Location associated with MSI (motion sickn...	0.00	0.00	0.00

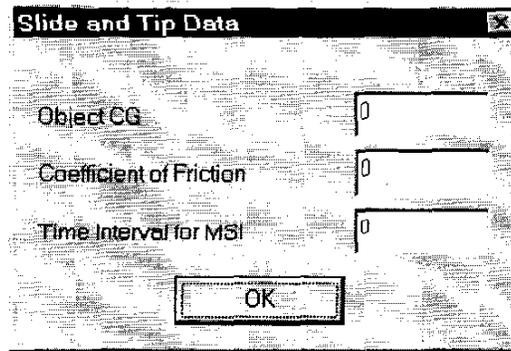
OK



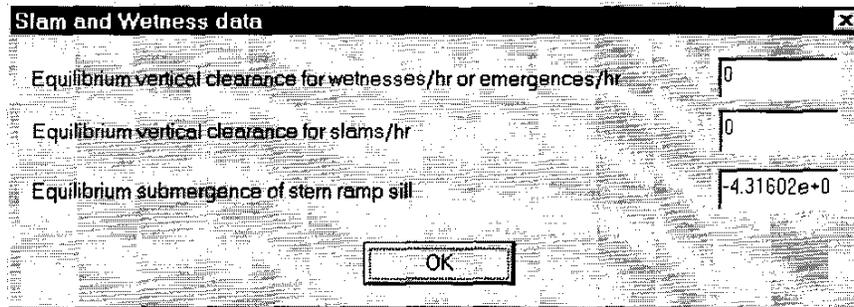
9.1.6 Criteria



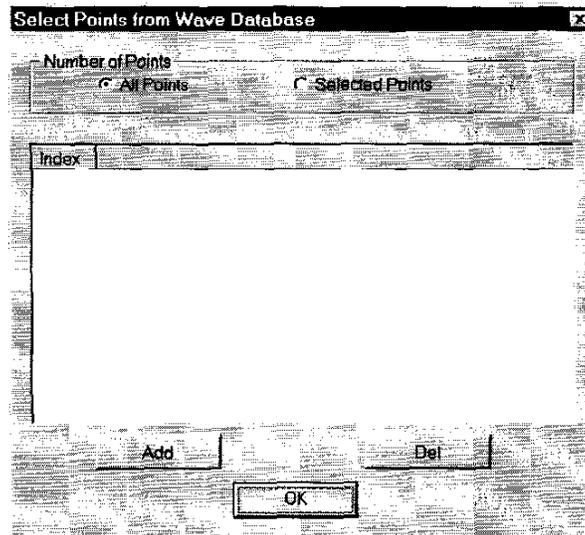
9.1.7 Slide/Tip

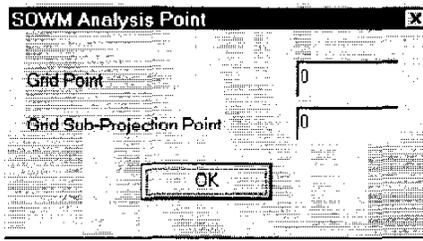


9.1.8 Wetness and Slamming

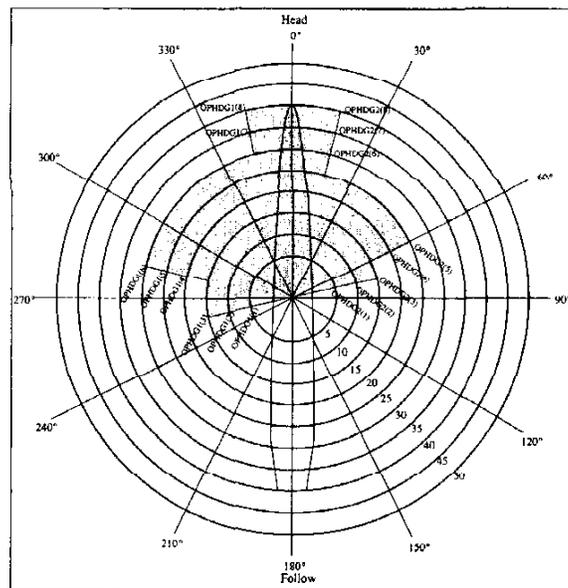
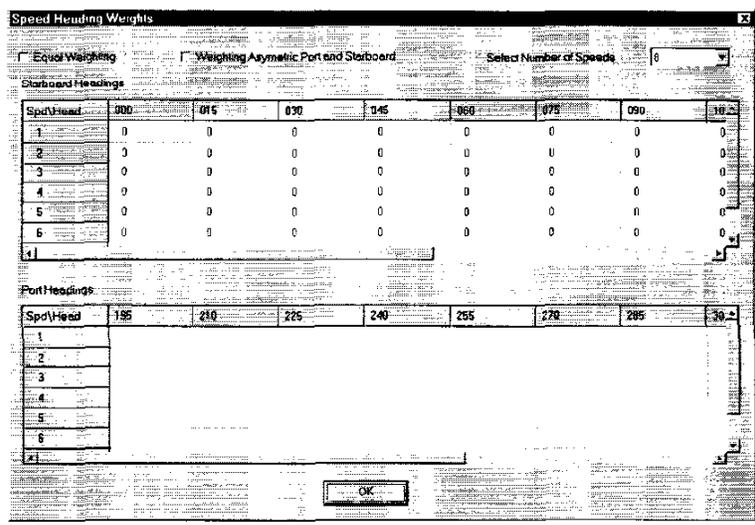


9.1.9 Database Locations





9.1.10 Weights



9.1.11 Wind Envelope

Wind Envelope

Normalise PTO

Wind Envelope

Spd/Head	OPFDG1	OPFDG2
5 kts	0.00000	0.00000
10 kts	0.00000	0.00000
15 kts	0.00000	0.00000
20 kts	0.00000	0.00000
25 kts	0.00000	0.00000
30 kts	0.00000	0.00000
35 kts	0.00000	0.00000
40 kts	0.00000	0.00000
45 kts	0.00000	0.00000
50 kts	0.00000	0.00000

OK Cancel

9.1.12 Wind Speed

Wind Speed Coefficients

$WV = C0 + C1 * SWH^{P1} + C2 * SWH^{P2}$

C0

C1

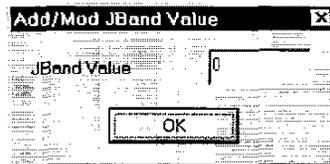
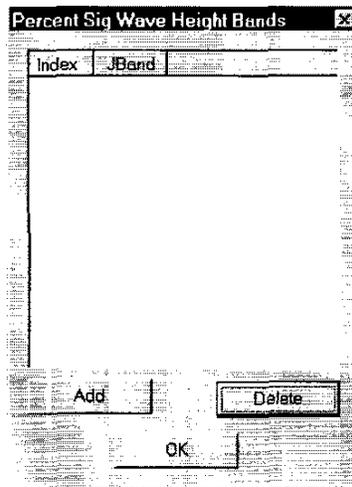
P1

C2

P2

OK Cancel

9.1.13 Significant Wave Height Bands

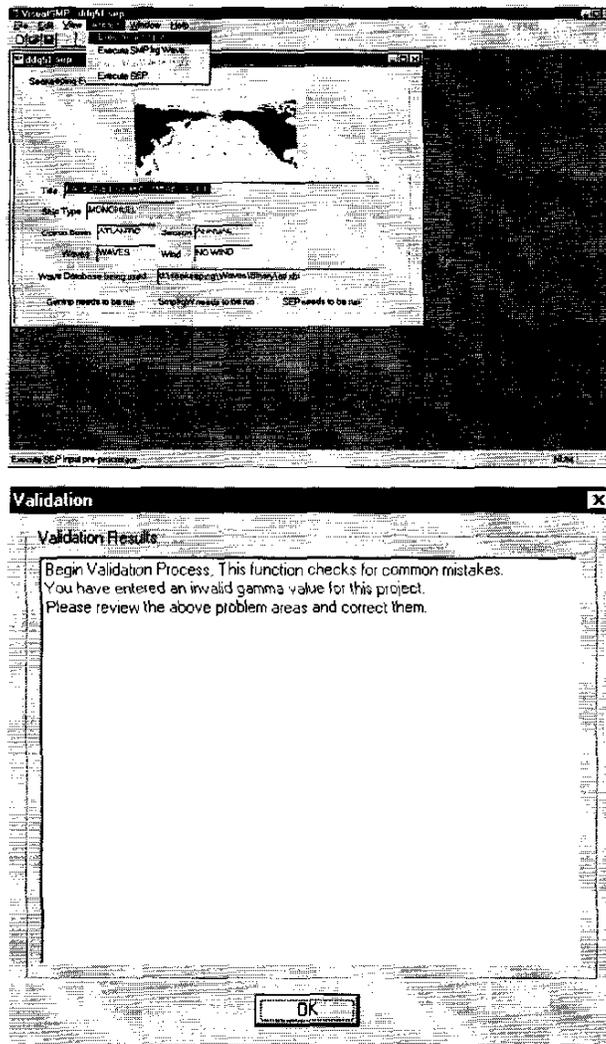


## 9.2 View

The View menu provides standard Windows commands for hiding or displaying the Toolbar and Status Bar.

## 9.3 Actions

There are two available options under the Actions menu, Validate and Execute Irregular Waves. The Validate menu item will scan through the current data set and look for common problems, the results are displayed on the Validate Dialog. The Execute menu item runs the seakeeping analysis.



#### 9.4 Window

The Window menu provides standard Windows commands for arranging the display window.

#### 9.5 Help

The Help menu provides standard Windows commands for help and general program information.