## Example 003 (Breakwater with \* pontoons Example of program Manual page 60)

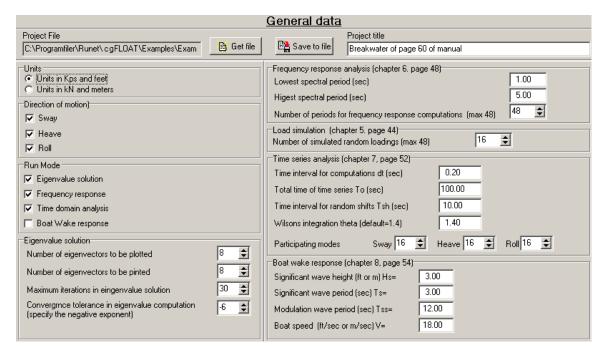
Design of a continuous breakwater with 8 pontoons. Each pontoon is 75ft long and has a cross section with width B=16 ft, height H=5 ft, thickness t=4.75 in, draft T=3.55 ft. Mooring cables in the middle of each pontoon with a stiffness 4kps/ft. Wave spectrum of Pierson-Moskowitz type with peak wave period Ts=3 sec, and significant wave height Hs=3 ft. Short crested waves with directional spectrum  $S(f,\theta)=S(f)\cos^n(\theta-\theta o)$ .

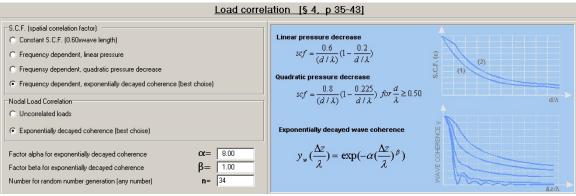
From Table 4.1, page 37 of the manual we get for n=2  $\alpha$ =4,  $\beta$ =2.

The section properties are shown in pages 62,63 and 63 of the manual.

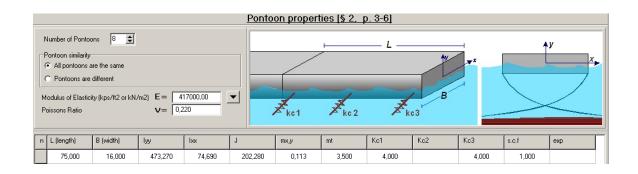
For the hydrodynamic coefficients we use B=16, T=3.55, and pressing the Generate Values button we get the table according to the table 3.1 page 21 of the manual. (in the values of the added mass the structural mass is added)

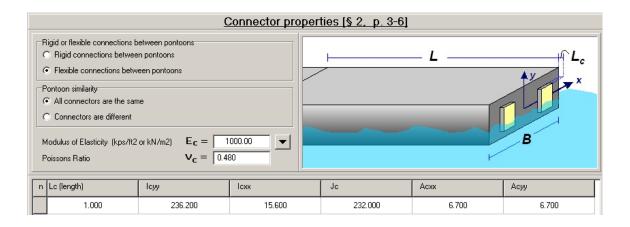
We complete the data in the pages of winFLOAT as shown in the next pages. Then we go in the last page Computations and Run Float. The FLOAT computational modulus is running and produces the output file. By pressing Output to NotPad we see the output.

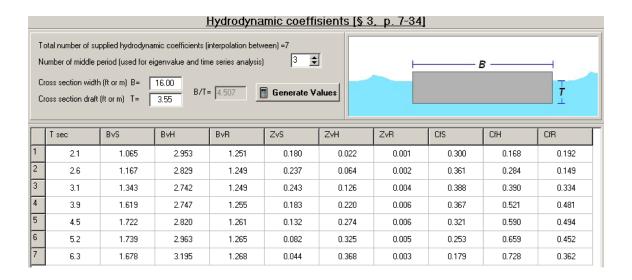




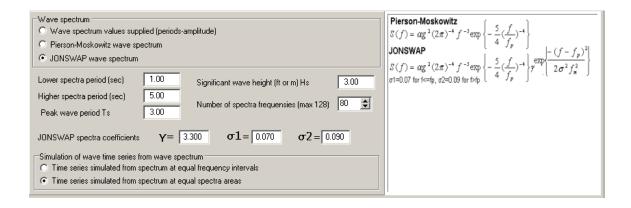
Example-3

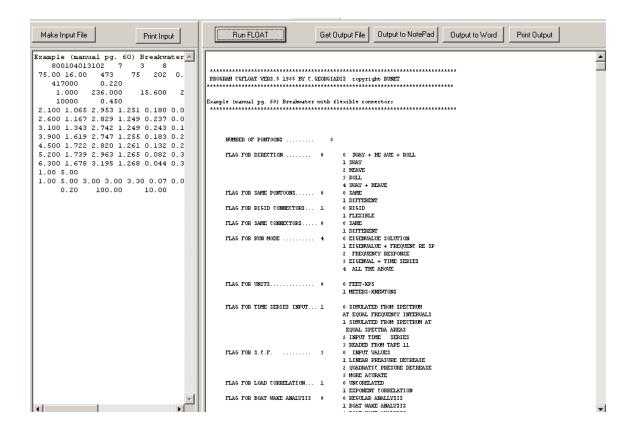




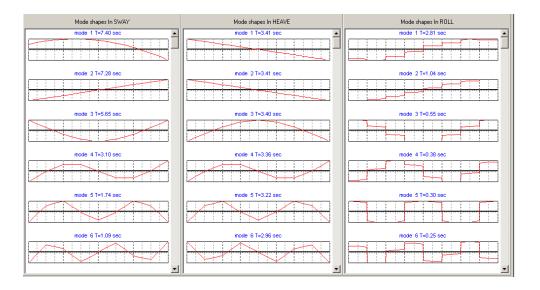


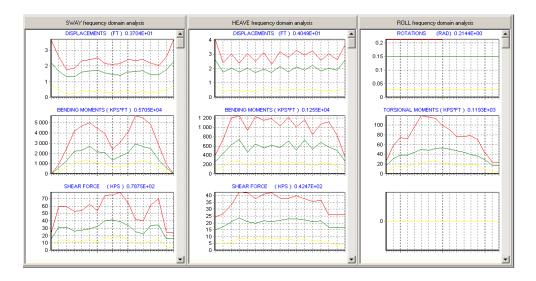
Example-3

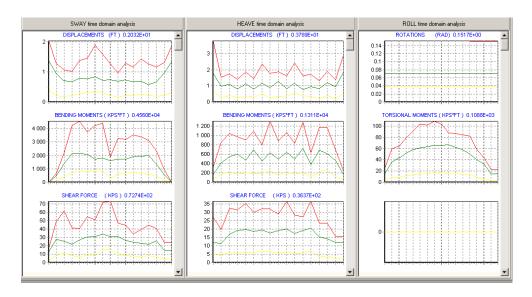




Example-3







Example-3 4