OPTIMOOR Diary of Principal Developments

6.3.10

- 21 Feb 17 Fixed failure to specify friction on Ship2Ship fenders (Dynamic)
- 14 Feb 17 Fixed glitch plotting forces on undefined fenders (Dynamic)
- 13 Feb 17 Corrected interchange of direction and period in dynamic set up of waves (Dynamic)
- 10 Feb 17 Fixed bug in selection of bollard forces in simulation plot (Dynamic)

6.3.9

- 24 Jan 17 Fixed bug caused if tail is longer than distance from bollard to fairlead
- 20 Jan 17 Smoothed some curves on capability roses by interpolation
- 12 Jan 17 Anomalous spikes on capability roses reduced by re-setting slippage on lines for each increment

6.3.8

- 14 Dec 16 Batch jobs speeded up by temporarily suppressing display of mooring window (Plus)
- 13 Dec 16 Fixed occasional failure to recalculate spectrum after changing wave period (WRM)
- 10 Dec 16 Fixed problem identifying worst excursions in batch mode (Plus)
- 6 Dec 16 Option to except/include chain lines when automatically removing lines sequentially in batch (Plus)
- 5 Dec 16 Changing units now automatically changes batch data to match (Plus)
- 4 Dec 16 Fixed failure to save newly-typed data unless cursor moved after updating (spreadsheets OK)
- 2 Dec 16 Target on correct side of Host now used to report Host offset when starboard to side (S2S)
- 30 Nov 16 Fixed failure to display worst directions for current and sea-wave sweep
- 21 Nov 16 Automatically cleans up corrupted vessel files where feasible
- 11 Nov 16 Fixed bug preventing initialisation after plotting wave rose if wave height zero (WRM)
- 5 Nov 16 Latest batch file automatically loaded (Plus)
- 3 Nov 16 Fixed various bugs with using sweep in batch mode (Plus)
- 10 Oct 16 Made fibre tail colours alternate to identify the segment lengths
- 7 Oct 16 Max allowable load can now be specified for buoy as well as bollard (Plus)
- 6 Oct 16 Limit on gap between Host & Guest increased from 10 m to maximum 100 m (S2S)
- 5 Oct 16 Option to hide display of pier
- 6 Sep 16 Height of anchor above seabed now correctly reported when USA units chosen (Plus)
- 3 Sep 16 Adjustable pier can now be shown on loadout site arrangement (Plus)

6.3.7

- 26 Aug 16 Ship2Ship fender load-compression curves now display properly (S2S)
- 16 Jul 16 Equilibrium start in Dynamic mode now properly allows for Other Forces (Dynamic)
- 15 Jul 16 Exceeding bollard limit no longer disconnects attached lines (Dynamic)
- 14 Jul 16 Correction to scale for wind & current rose in USA units
- 13 Jul 16 Static Other Force is now added Other Forces in Dynamic setup (Dynamic)
- 29 Apr 16 Double clicking on Guest ship now generates new fairlead on Guest, not incorrectly on Host (S2S)

6.3.6

- 19 Apr 16 Fixed various glitches in display of lines, no change to numerical results
- 15 Apr 16 Fixed error reporting percent of bollard strength in USA units.

6.3.5

29 Mar 16 Fixed failure to display all wave motions at targets (WRM)

6.3.4

- 28 Mar 16 Presence of Other External Force noted on Rose and Sea State Limit diagrams
- 22 Mar 16 Fixed errors (introduced version 6.3.0) in calculating wave drift force (WRM)
- 21 Mar 16 Fixed bug with shielding waves locked to wind direction during wind sweep
- 11 Mar 16 New batch feature to remove each line in turn automatically, one at a time (Plus)

6.3.3

- 27 Feb 16 Improved accuracy at large yaw angles for end-on loadout (Plus)
- 24 Feb 16 Clarified display of excursions for loadout (Plus)
- 10 Feb 16 Other Static Force now retained irrespective of any others set up in dynamic Force History (Dynamic)

6.3.2

- 28 Jan 16 Bug fixed setting default data on opening batch window (Plus)
- 25 Jan 16 Rose now allowed for times after initial, without forcing any re-initialisation
- 22 Jan 16 Sweep now allowed for times after initial, without (as previously) forcing re-initialisation

6.3.1

- 4 Jan 16 Streamline output from batch sweep (Plus)
- 31 Dec 15 Flag note if pre-tension not specified
- 18 Dec 15 Trap out waves steeper than about 0.1 of wavelength (WRM)
- 12 Dec 15 Cured problem of spikes to dynamic simulation with waves and changing draft (WRM)
- 9 Dec 15 Draft and trim etc now displayed to 2 decimals
- 8 Dec 15 Clean up repetition of error warnings when starting dynamic simulation (Dynamic)
- 26 Oct 15 Wave motion at target of Host displayed wrt berth axes, and for Guest wrt Host axes (Ship2Ship with WRM)
- 19 Oct 15 Remove all "new" rope data as misleading and only applicable for setting up new permanent moorings
- 14 Oct 15 Line tension limits associated with vessel data, not the case data.
- 9 Oct 15 Batch window now cannot be exited during batch run (Plus)
- 8 Oct 15 Excursion less than 10 displayed to 2 decimal points
- 5 Oct 15 Sweep in batch now calculates at 5° intervals not 10° (Plus)

6.3.0

- 7 Jul 15 Horizontal bollard force as percent of strength added to report
- 13 Jun 15 Removed restrictions on tail connections going through a fairlead tails can now be any length
- 14 May 15 Contact area corrected if fender partially above deck level
- 28 Feb 15 Force history can now be applied to both Guest and Host (Dynamic)
- 20 Feb 15 Display relative excursions at Guest target (Ship2Ship)
- 19 Feb 15 Show mode of analysis on Arrangement plan
- 22 Oct 14 Converted current from m/s to knots when displayed at top of dynamic simulation output file (Dynamic)
- 18 Sep 14 Small improvement to formula for natural roll period
- 29 Aug 14 Differentiate port & stbd targets on vessel
- 20 Jun 14 Relative motions between targets implemented (WRM with Ship2Ship)
- 17 May 14 Allow for phasing of wave motions in S2S moorings, previously random phasing (WRM with Ship2Ship)
- 27 Apr 14 Option to set up OCIMF conditions in batch mode (Plus)
- 20 Apr 14 Option for bight to sheave on buoy (effectively 3 lines from ship to buoy controlled by one line from shore to buoy)
- 21 Jan 14 Zero line diameter no longer defaults to 50mm
- 18 Aug 13 Now allows deletion of line diameter in vessel file without it automatically being restored to 30mm
- 8 Jul 13 Allow flat side to extend 20% outside Lpp
- 19 Jun 13 Right click popup menu to copy/paste added to Dynamic setup window (Dynamic)
- 1 May 13 If wave period not set, now defaults to 6 for wave, 10 for swell, 25 for seiche

6.2.9

- 20 May 14 If Bollard strength exceeded now all lines to that bollard are disconnected (Dynamic)
- 7 Apr 13 Fixed bug displaying wave component of excursion at target in Dynamic mode (Dynamic with WRM)

6.2.8

- 31 Mar 13 Increased default roll damping from 5% to 10% (WRM)
- 25 Mar 13 Bug fixed when deleting/removing bight lines

6.2.7

- 17 Mar 13 Seiche now simulated as sinusoidally varying force, not constant (Dynamic)
- 16 Mar 13 Direction of seiche force now set by user (not automatic \pm)
- 19 Feb 13 Display of red line on rose suppressed if the winch brake is set lower than the permissible tension
- 2 Feb 13 Improve numerical stability by predicting mooring reactions at end of each TimeStep (Dynamic)
- 20 Jan 13 Environmental forces only updated every second, no longer every TimeStep (Dynamic)

6.2.6

- 5 Jan 13 More menu options for displaying forces in simulation plot (Dynamic)
- 4 Jan 13 Added terms in wave drift spectrum to ensure non-repetition of force pattern (Dynamic with WRM)

- 17 Nov 12 Key dongle software updated to solve problem of USB v.3 port
- 12 Sep 12 Pan simulation plot display with left click hand pointer, and zoom with mouse wheel (Dynamic)
- 5 Sep 12 Removed scroll bars from site plan as superseded by mouse drag
- 4 Sep 12 Pan site display with left click hand pointer, and zoom with mouse wheel. Left double click to centre Host vessel
- 22 Jun 12 Narrowband for sea waves now means regular sinusoidal wave (Longuet-Higgins retained for swell) (WRM)
- 9 Mar 12 Option to change shape of pier on site plan
- 13 Nov 11 Option to adjust scale of capability rose

Points Regarding USB Port v.3 Compatibility:

- 1 USB keys supplied before 2013 are not compatible with the new USB port v.3 (these are usually blue on the inside).
- 2 Keys supplied after 2012 are compatible with both v.3 and older v.2 ports (these are usually black on the inside).
- 3 Optimoor versions earlier than 6.2 will not recognise any key in the new USB port v.3.
- 4 Optimoor versions from 6.2 onward will recognise all keys of any age, subject to point 1 above.

6.1.19

6 Sep 12 Small increase in damping based on mooring reactions for numerical stability (Dynamic version)

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3 Aug 12 Option to lease by date. Automatic reminder when maintenance about to expire

6.1.16

11 May 12 fixed bug introduced 8 Jan 12 causing wrong sign of yaw drag (Dynamic version)

6.1.15

8 Jan 12 Integration timestep reduced from 0.2 to 0.1 (Dynamic version)

6.1.13

19 Dec 11 Fixed error arising if large angles yaw angles occur with large longitudinal offsets between S2S vessels (S2S)

6.1.12

14 Dec 11 Fixed error if current used with S2S and both ships lock due to friction (Dynamic with S2S module)

6.1.11

- 7 Dec 11 Fixed bug using constant tension winch in dynamic mode (Dynamic version)
- 28 Nov 11 Fixed bug in tracking rope hysteresis (Dynamic version)
- 15 Aug 11 Display of end fenders moved from AP to transom (or FP to bow) (Plus version)

6.1.10

- 5 Aug 11 Installation problem under XP fixed (only affects XP installation since version 6.1.8, not Optimoor itself)
- 4 Aug 11 Fixed bug in STS if the Host is starboard to berth and STS fenders not symmetrical about midship (Ship2Ship)

6.1.9

- 25 Jul 11 Minor improvements in display of summary of batch results (Plus version)
- 24 Jul 11 Fixed summary results from batch runs sometimes displaying metric when using USA units (Plus version)

6.1.8

- 17 Jul 11 Bug fixed when using time history to change current direction in dynamic setup (Dynamic)
- 18 May 11 Type of wave spectrum (if used) now displayed on wind rose (WRM)
- 17 May 11 Corrected display of bollard limits when using Loadout option in USA units. Batch data amended for Loadouts (Plus)
- 16 May 11 Batch data now automatically updated when units changed (Plus version)
- 12 May 11 Flag warning in batch data if trying to set wave data without Wave Response Module (Plus)
- 7 Apr 11 Small improvement to convergence reliability
- 1 Apr 11 Directional sweep now made for the condition at the specified time (previously it always reverted to initial time)
- 28 Mar 11 Fixed bug using Wave Response Module with collar vessel restraint (WRM)
- Jan/Feb 11 New batch feature introduced (Plus version)

6.0.15

17 Mar 11 Fixed bug in display of pressure in S2S fenders (S2S)