

## MIT SEAWATER LIBRARY VERSION HISTORY:

### Version 3.1.4 2017-02-20

- All functions in EES updated to include units so users are aware of unit errors when using the seawater library (Matlab and VBA same as v3.1.3)

### Version 3.1.3 2016-12-21

- Kinematic viscosity function was updated so internal density function call used pressure input in MPa instead of Pa for  $T > 100$  °C

### Version 3.1.2 2016-07-08

- Extended range of flow exergy function to  $S = 0$  g/kg and updated description
- New function for product of salinity and chemical potential of salt

### Version 3.1.1 2016-07-07

- Updated documentation of functions, range of chemical potential of water function and surface tension, osmotic coefficient and references to Nayar et al. (2016).

### Version 3.1 2016-03-03

- First public release version of revised package
- New function for osmotic pressure (calculated from osmotic coefficient) and pressure dependent thermal conductivity

### Version 3.0 2015-07-22

- Beta version
- Incorporated pressure dependence for density, specific heat capacity, enthalpy, entropy, Gibbs, chemical potential of salt and water in seawater, internal energy and specific volume
- New correlations for isothermal compressibility, isobaric expansivity, Gibbs energy, chemical potential of salt and water in seawater, osmotic coefficient and surface tension

### Version 2.0 2012-06-06

- Allowed T and S arrays to be manipulated and unit conversion

### Version 1.0 2009-12-18

- Original library dependent on temperature and salinity only