

# Constants toolbox

The Animal Tags Constants Toolbox consists of a series of functions used to calculate a variety of useful constant values. Functions in this toolbox are listed in the table below, with an indication of their current development status.

## Constants TOC

Function	Description	Matlab	Octave	R	Other
<a href="#">absorption</a>	Absorption coefficient for sound in seawater	✓	✓	✓	Under development
<a href="#">acc_wgs84</a>	Total acceleration due to gravitational and centripetal force at the earth's surface according to the WGS84 international gravity formula	✓	✓	✓	Under development
<a href="#">cst2hms.R</a>	Convert a time in CST to hours min sec local time	✓	<a href="#">cst2hms_or_datenum.R</a>	✓	Under development
<a href="#">cst2hms_or_datenum.m</a>	Convert a time in CST to hours min sec local time or a matlab serial date number indicating local time.	✓	✓	<a href="#">cst2hms.R</a>	Under development
<a href="#">depth2pressure</a>	Convert depth (in meters) to pressure in Pascals	✓	✓	✓	Under development
<a href="#">julian_day</a>	Convert between dates and Julian day numbers	✓	✓	✓	Under development
<a href="#">mean_absorption</a>	Calculate the mean absorption in salt water over a frequency range	✓	✓	✓	Under development
<a href="#">sound_speed</a>	Sound speed estimate using Coppens equation	✓	✓	✓	Under development

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