=== keff_in_SeaIceZone ===

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URL: The most recent routines can be downloaded from

AGU Index Terms: Air-sea interactions, Ice mechanics and air-sea-ice
exchange processes, Turbulence, diffusion, and mixing processes, Gases,
Biogeochemical Cycles

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== Description == The Matlab routines contained in this distribution
calculate the effective gas transfer velocity (k_{eff}) for sea-ice-covered
waters where turbulence can arise from (1) ice-water drag, (2) air-
water drag and (3) buoyant convection. The routines are based on the
parameter model described in:

> Loose, B., W. R. McGillis, D. Perovich, C. J. Zappa, and P.
> Schlosser (2013), A parameter model of gas exchange for the
> seasonal sea ice zone, Ocean Sci. Discuss., 10(4), 1169-1204.

== Installation ==

1.   DEPENDENCIES: These routines require the Gibbs Seawater Toolbox
     (gsw), which can be downloaded from http://www.teos-10.org/. the
     gsw Toolbox contains the UNESCO state equations for the
     thermodynamic properties of seawater. No other dependencies
     should exist.

2.   Untar the contents of the distribution and change the Matlab
     directory to be inside the folder location. See screenshot
     below.

3.   Open/run/edit example.m. This routine has characteristic values
     of the input parameters for keff_SIZ.m

== Changelog ==

11.18.13 – Updated all routines to use Gibbs Seawater Toolbox instead of CSIRO Seawater toolbox.

Please report any errors or bugs to osoberlice@gmail.com