Parameters in file SeaState\_2015\_met\_sfc\_SEB\_5min\_2015\_275\_309

File name shows that values are 5-minute averages (or interpolations for wave parameters) for Days 275 (Oct 2) through 309 (Nov 5).

jd – day of year
hrdec – decimal hour

lat,lon – latitude, longitude (deg)

zpsd\_bw\_top – height (m) of bow mast sonic above mean water level

zpsd\_brdg – height (m) of PSD bridge-roof data (e.g., pressure)

slp – sea level pressure (mb) estimated from bridge-roof pressure

psd\_ta15 – PSD Air temperature (deg C) at top of bow mast (15 m)

psd\_q15 – PSD air specific humidity at 15 m (g/kg)

psd\_rhw – PSD heated relative humidity wrt water (%) at 15-m top of bow mast

psd\_wst – true wind speed (m/s) from PSD top bow-mast sonic

psd\_wdt – true wind direction (deg true) from PSD top bow-mast sonic
wst\_bst – best estimate of true wind speed (m/s): psd\_wst for -5 deg <
 relative wind dir <+5 deg; max(psd\_wst mast\_port) for relative wind
 dir< -5 deg; max(psd\_wst mast\_starboard) for relative wind dir >
 +5 deg;

wdt\_bst – best estimate of true wind direction (deg). Corresponds to sensor
 data chosen for wst\_bst
psd\_tsea\_ed – sea snake temperature (deg C) recorded whenever sea snake was
 deployed(either in water or on ice)

Tsfc\_KT151\_med – manually edited forward facing KT15 skin temperature (deg C)
Tsfc\_KT152\_med – manually edited rearward facing KT15 skin temperature(deg C)

TsIR\_shp\_mn – manually edited CT15 skin temperature (deg C)
IRt\_best – best estimate of radiometric skin temperature (deg C): when ship
 underway(SOG>1 m/s) , radiometric skin temperature furthest from
 psd\_ta15 air temperature (assumes that riming will give value close
 to air T); when ship stationary, mean of the three radiometric skin
 temperatures that passed manual editing (assumes that differences
 due to true spatial differences on surface)

frzpt – freezing point of seawater (deg C) at observed salinity shp\_thsal\_sal shp\_thsal\_sal – observed salinity (PSU) at ship intake (6.5 m depth)

hs\_wave – significant wave height (m) from bow mast 1D lidar (CF estimate)

hs\_wind\_wave – significant wave height for wind waves (m) determined by given
 frequency cutoff

Tp\_wave – spectral peak wave period (s)

Tp\_wave\_mom – wave period (s) computed from spectral moments

Tp\_wwv\_cutoff – wave period (s) corresponding to wind wave frequency cutoff
wave\_miss – number of missing wave points of the 6000 possible points during
 the 10-min wave estimate

psd\_lwd\_med – manually edited downwelling longwave radiation (W/m2) (no
 filling of data)

psd\_lwd\_bst – missing data in psd\_lwd\_med filled with linear interpolated
 values from good data (W/m2)

psd\_swd\_med - manually edited downwelling shortwave radiation (W/m2) (no
 filling of data)

psd\_swd\_bst- missing data in psd\_swd\_med filled with linear interpolated
 values from good data (W/m2); all negative values assumed = 0
 W/m2

hs\_blk – bulk sensible heat flux (W/m2); calculated with slp,psd\_ta15,
 psd\_q15, wst\_bst,IRt\_best, no cool skin, COARE/SHEBA algorithm

hl\_blk – bulk latent heat flux

ust\_blk – bulk ustar;