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</pre> 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/m2hs 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;