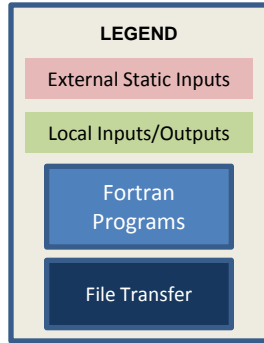


# ERSSTv3b Monthly Update Script

(ersstv3b\_oper\_situ\_only\_col.sh)



**FTP Ship and Buoy data**  
 Primary - ftp.emc.ncep.noaa.gov  
 Secondary - ftp.cdc.noaa.gov

**Copy Ship and Buoy data**  
 obs/buoyship/NCEP/nqciyear2cmonth

**1° monthly SST climo**  
 (1971-2000)...clim.71.00.gdat-fill  
 (1950-1979)...stdev1d-coads-fill

**2° monthly ERSST data**  
 sst2d.situ.1985.last.v3b.dat

**2° Land/Sea mask**  
 ersst/data/mask.2d.dat

Rejected SSTs based on ERSST  
 gts\_ersstrej\_ship.cyear.dat  
 gts\_ersstrej\_buoy.cyear.dat

Rejected SSTs based on Climo  
 gts\_climrej\_ship.cyear.dat  
 gts\_climrej\_buoy.cyear.dat

**Convert ship/buoy data from 1° to 2° grid**  
 gtsqc.situ.v3b.f

**2° monthly avg SST and counts**  
 ship.avg2.mon.yyyy.dat  
 buoy.avg2.mon.yyyy.dat

**2° monthly SST climo**  
 clim.even.1971.2000.dat

**Merge ship/buoy data with climo**  
 ssta.merg.situ.v3b.f

**2° bias adjusted SST anomalies**  
 ssta.merg.situ.mon.v3b.cyr.dat

**2° Land/Sea mask**  
 ersst/data/mask.2d.dat

**2° ICOADS yearly avgs**  
 saan.situ.1854.2006.dat

Optional pre-filtering array  
 saan.upd.1985.2006.v3b.dat

**Low freq SST anom analysis**  
 lfsst.situ.v3b.f

**LF anomaly**  
 lfsst.1978.situ.last.v3b.dat

**¼° daily ice data**  
 (Pre 2005)...obs/gsfcc-med/cice.yyyyymmdd  
 (>=2005)...grads/ice-med/icecon.yyyyymmdd

**Convert ¼° daily ice to 1° mo avg grid**  
 monice1d-med-oper.f

**1° mo median sea ice conc**  
 ersst/grads/medmonice.ave-1d.yyyy

**Adjustment factors**  
 (1985-2004) GFSC - adj.gsfcc\_ice2mon.cyc.dat  
 (>=2005) NCEP - adj.ncep\_ice2.mon.cyc.dat

**Convert 1° mo ice to 2° grid**  
 ice1t2.f

**2° mo median sea ice conc**  
 ersst/data/dat2d/sice.avg2.mon.yyyy.dat

**130 EOTs for 2° grid**  
 eo6.ev130.ano.dat

**2° monthly SST climo**  
 clim.even.1971.2000.dat

**2° Ice mask**  
 ersst/data/ice\_mask.2d.dat

**OI anomaly and counts**  
 oiv2.ano2.1982.2002

**130 EOTs for 2° grid**  
 eo6.ev130.ano.dat

**High freq SST anom analysis**  
 hfsst.situ.v3b.f

**HF anomaly weights**  
 hfsst.1985.situ.last.wgt.v3b.dat

**Full merging of SST analysis and anom**  
 sst2d.situ.v3b.f

**SST Analysis**  
 sst2d.situ.1985.last.v3b.dat

**SST Anomaly**  
 sst2d.ano.situ.1985.last.v3b.dat

**2° high freq variance**  
 varhf.ssta.dat

**2° Land/Sea mask**  
 ersst/data/mask.2d.dat

**2° bias adjusted SST anomalies**  
 ssta.merg.situ.mon.v3b.cyr.dat

**5° low freq variance**  
 lfvar5d.mrg.dat

**Update monthly sampling error variance maps**  
 err.norm.map2.upd.situ.v3b.f

**Normalized sample error variance maps**  
 err.norm.map.upd.situ.1985.last.v3b.dat

**Create error variance and SST ASCII files**  
 dati2.upd.situ.v3b.f

**SST file**  
 ersst.v3b.cy1.cy2.asc

**Error file**  
 ersst.esd.v3b.cy1.cy2.asc

**Convert to NetCDF format**  
 ersst.netcdf.situ.v3b.f

**2° monthly SST, anomaly, and error variance NetCDF files**  
 ersst.yyyyymm.nc

**SCP results to eclipse**