Following /etc/aliases(sendmail) mail sent to seas goes to seasa@localhost, code41 to code41a@localhost, code43 to code43a@localhost, ucsg to uscga@localhost and seasobs to seasa@goos070.aoml.noaa.gov seasa@as100.amverseas.noaa.gov seas@as101.amverseas.noaa.gov

Sent by: eikmail.com & Skyfile.com- Astrium Satellite E-mail Services

Mails

- seasobs@goos070.aoml.noaa.gov
- shipobs@noaa.gov
- seasa@localhost
- seas@eikmail.com
- code41@eikmail.com
- code43@eikmail.com

startAS.py

MAIL

seasmail.py
- Reads email in localhost: M.user("seasa"); M.pass_("XXXX") and stores message SEASScanDir+05%04Xse.txt . It looks for BBXX, AMVER and SEAS binary messages
  - Creates TRBOX in SEASInbox changing name to 05%04Xse.in
    - Add X25 header
    - Copy message to SEASArchive+"mail/"
    - if message type is not identified, copy it to SEASScanDir+"unprocessible/"
- SEASInbox:/home/AMVER/SEAS/in/
- SEASScanDir: /home/AMVER/SEAS/smtpin/
- SEASArchive: /home/AMVER/SEAS/archive/
- SEASMessSeqFile:/home/AMVER/MessSeq/SeasMesSeq.txt   Stores sequence used to name output file. Range:0-0xFFFF
- Possible problems: Don't processes messages>65K so, what happens when SEASBin.py aggregates various files and maybe exceeds that size?
- logs:ARCHFile = AMVERWorkDir+"SEAS/logs/mail/
- insert into seas_msg_log

code41mail.py
- Reads email for Code41 messages (BBXX) and stores the data in CODE41ScanDir+06%04Xse.txt
  - Then for each file in CODE41ScanDir create a TRBOX message for CODE41Inbox 06%04Xse.in
- M = poplib.POP3("localhost");M.user("code41a");M.pass_("XXXX")
- CODE41Archive: /home/AMVER/CODE41/archive/
  CODE41Inbox:/home/AMVER/CODE41/in/
  CODE41MessSeqFile:/home/AMVER/MessSeq/CODE41MesSeq.txt
  CODE41ScanDir:/home/AMVER/CODE41/smtpin/
- insert into seas_msg_log
- logs: AMVERWorkDir+"CODE41/logs/mail/

code43mail.py
- Reads email for Code43 messages and stores the data in CODE43ScanDir+01%04X00.txt
  - Then for each file in CODE43ScanDir create a TRBOX message for CODE43Inbox
- M = poplib.POP3("localhost";M.user("code43a");M.pass_("XXXX")
- CODE43Archive: /home/AMVER/CODE43/archive/
  CODE43Inbox: /home/AMVER/CODE43/in/
  CODE43MessSeqFile: /home/AMVER/MessSeq/CODE43MesSeq.txt
  CODE43ScanDir: /home/AMVER/CODE43/smtpin/
- logs:AMVERWorkDir+"CODE43/logs/mail/
- insert into seas_msg_log

USCGmail.py
- Reads email for USCG messages and stores the data in USCGScanDir+ 02%04Xcg.txt
- M = poplib.POP3("localhost";M.user("uscga");M.pass_("XXXX")
- Then for each file in USCGScanDir create a TRBOX message for USCGInbox
- USCGArchive: /home/AMVER/USCG/archive/
  USCGInbox: /home/AMVER/USCG/in/
  USCGOutbox: /home/AMVER/USCG/out/
  USCGMessSeqFile: /home/AMVER/MessSeq/USCGMesSeq.txt
  USCGScanDir: /home/AMVER/USCG/smtpin/
- logs: AMVERWorkDir+"USCG/logs/mail/
- insert into seas_msg_log

code43Corrector.py
- Inserts Code43 messages into comsat
- Creates temporary file AMVERWorkDir+temp/temp43.file; if processible copy it to CODE43CorrectDir and copy from CODE43Inbox+no to CODE43Archive+'in/'+no
- logs:AMVERWorkDir+"CODE43/logs/corrector/
- CODE43CorrectDir: /home/AMVER/CODE43/corrected/
- FOr each file in: CODE43Inbox: /home/AMVER/CODE43/in/
- insert into comsat

SEASBin.py
- Sends SEAS Binary messages via email that arrived to SEASBinInputDir
- Subject: SEAS Binary Message
- sender = "SEASBin@"+host
- Files in /home/vftp/seasbin/ (SEASBinInputDir)
- Address: seas@localhost
- logs: AMVERWorkDir+"SEAS/logs/SEASBin/

seasprocessor_cpp
- Creates _JJVV.BBX used by QCdistrib.py
- Creates the NDC files used by NDCdistrib.py
- Opens seasprocessor.pid. Uses: home/AMVER/CODE41/in/;/home/AMVER/CODE43/in/;/home/AMVER/NWS/out/;/home/AMVER/SEAS/bathy/;/home/AMVER/SEAS/logs/;/home/AMVER/SEAS/archive/;/home/AMVER/SEAS/in/;/home/AMVER/CODE41/archive/;/home/AMVER/SEAS/NODC/out/
- Detects JJVV_1 & JJVV_2 messages
- BBXX messages (Messtype==8): decode and put them in Code41Inbox
- Amver messages (Messtype==21 or 23 or 24 or 25) decode and put them in Code43Inbox
- Admin messages set to /home/AMVER/SEAS/admin/
- Unprocessible data sent to SEASArchive+'unprocessible'
- insert into comsat

  Files stored in SEASArchive+'in/'

code41Met.py
- For each file in CODE41Inbox inserts in comsat (if it is BBXX) mess_type=8
- Code 41 (BBXX) files are put in NWSMessOutDir: /home/AMVER/NWS/out/
- Code43 files are processed by code43Corrector.py
- logs:AMVERWorkDir+"CODE41/logs/met/
- insert JJVV_1, JJVV_2 and SEASIV into comsat

Watchdog.py
- Check PIDS from processes
- Processes touch their respective pid files (os.stat(pid),os.utime) to confirm they are running
- logs:AMVERWorkDir+"admin/watchdog/logs

AMVERdistrib.py
- Seeks files in CODE43CorrectDir /home/AMVER/CODE43/corrected/
- Moves files to archive CODE43Archive /home/AMVER/USCG/archive/
- Activated if DeliverAMVER=true
- sender = "NOAA_mailerd@"+host
- AMVERAddress: amvermsg@amver.org
- logs:AMVERWorkDir+"CODE43/logs/AMVERdistrib/

NWSdistrib.py
- NWSftp: ftpin.nws.noaa.gov
- BathyDir:/home/AMVER/SEAS/bathy/
  BathyQCInDir:/home/vftp/seasqc/
- NWSMessOutDir: /home/AMVER/NWS/out/
- NWSDestDir: .
- DeliverMet2NWS: true
  DeliverBathy2NWS: true
- DeliverBathy4QC: true
- BathyQCInDir: /home/vftp/seasqc/
- As it is running now: Direct2Process = [NWSMessOutDir,BathyQCInDir]
- NWSftp: ftpin.nws.noaa.gov; ftp.login('ftpin053',XXXX) and put files in NWSDestDir
- Transfer Bathy and Met (from code41Met.py) reports to NWS. Stores bathy profiles in /home/AMVER/NWS/archive/bathy
- logs:AMVERWorkDir+"NWS/archive/logs/

BathyQCInDir should be the directory where the QC process puts the JJVV reports!!

USCGdistrib.py
- Nothing is being distributed as DeliverUSCG2NWS is false!!!!!!!!!!
- Extract the USCG bulletins from the SEAS formatted X.25 type bulletin. SourceDir = USCGInbox. Written to USCGArchive+"/in/" and USCGOutbox
- Files in USCGOutbox are sent to AOMLftp;ftp.login('seas',XXXX);ftp.cwd(AOMLNODCDestDir)
- NWSftp: ftpin.nws.noaa.gov
  USCGArchive: /home/AMVER/USCG/archive/
  USCGInbox: /home/AMVER/USCG/in/
  USCGOutbox: /home/AMVER/USCG/out/
  NWSUSCGDestDir: /ingester/ftpin054
  DeliverUSCG2NWS: false
- logs: AMVERWorkDir+"USCG/logs/distrib/

NDCdistrib.py
- For each file in NODCOutDir, we send it via ftp to AOMLftp and NODCftp
- ftp.login('xbt', 'XXXX')
  ftp.cwd(AOMLNODCDestDir)
  ftp2NODC.login('ftp','XXXX')
  ftp2NODC.cwd(NODCDestDir)
- NODCOutDir: /home/AMVER/SEAS/NODC/out/
  NODCftp: ftp.nodc.noaa.gov
  AOMLNODCDestDir:/phod/incoming/xbt/seas/ndc/
  NODCDestDir: /pub/incoming/seas/
- DeliverNDCFiles: true
- AOMLftp: ftp.aoml.noaa.gov
- logs: AMVERWorkDir+"SEAS/logs/NODCDistrib/

QCdistrib.py
- AOMLftp: ftp.aoml.noaa.gov
  BathyDir: /home/AMVER/SEAS/bathy/
  NODCOutDir: /home/AMVER/SEAS/NODC/out/
  AOMLQCDir: /phod/incoming/xbt/seas/bbx/
  DeliverBathy4QC: true
  DeliverNDCFiles: true
  DeliverBathy2NWS: true
  AOMLNODCDir = 'PaulNODCTest'
- For each file in BathyDir+'forQC' , send it to AOMLftp: ftp.login('xbt','XXXX'); ftp.cwd(AOMLQCDir) with extension _JJVV.BBX
- CHECK WITH PAUL WHAT seasprocessor_cpp DOES on forQC DIRECTORY! QCdistrib.py doesn't archive files in this directory and no other program does
- logs:AMVERWorkDir+"SEAS/logs/QCDistrib/

LoadProfiles.py
- It is not started by startAS.py. It is running manually on goos070
- Check BathyDir+'profiles for BBXX data
- Inserts info into database: tables profiles &profdata. If callsign is in noaaships, update in profiles shipname& lloys columns
- Profiles in BathyDir 'profiles' are created by seasprocessor_cpp to be used as input to database

DistribNOSBUFR.py
- DeliverBUFR & DeliverISDM are set to false
- Create files in AMVERWorkDir/NOSSRVR/logfiles/NOSDistrib/
- BUFROutDir is AMVERWorkDir/NOSSRVR/bufr_queue/
- In case DeliverBUFR is true (it is currently false), put files from BUFROutDir on AOML's ftp:/phod/incoming/xbt/seas/bufr/

DistribNMCFiles.py
- Currently NOT running on goos070
- Transger NMC files in AMVERWorkDir/NOSSRVR/nmc/ to ISDM Canada

DistribNMCFiles_Email.py
- Currently NOT running on goos070
- Sends NMC files in AMVERWorkDir/NOSSRVR/nmc/ to ISDM Canada
  Send_from: NOAA_Mailerd@as101.amverseas.noaa.gov
  Send to: meds-sdmm@dfo-mpo.gc.ca;paul.chinn@noaa.gov

NOSSRVR.py
- Currently NOT running on goos070
- Get files from tggate.nws.noaa.gov
- Each 6 hour: Build NMC file in NOSFileDir/nmc/ (home/AMVER/NOSSRVR/nmc) from files .txt in that directory
- Create NOS(SRVR) file in NOSFileDir, BUFRBulfile in NOSFileDir+bufr_queue/ and Met_BUFRBulFile inNOSFileDir+ met_bufr_queue/ from files in NOSFileDir/binfiles/
- Uses header info to retrieve IOPX01, IOSX01 and IOPX02 (BUFR bulletin)
  User IOBX01 for Met BUFR (IN THE PROGRAM THIS IS WRONGLY ENCODED!) else alphanumeric and added to NOS(SRVR) file. This file is then converted a GW format and copied to NOSFileDir/archive/ and /home/vftp/nossrvr/
  Over the alphanumeric, if JJXX,JJYY,JJVV, KKXX, KKYY then add to NOSFileDir/nmc/