Bene found there was a time offset of 16 hrs between the recently processed data, and that from before

time_validation.txt

From their documentation, 324.521 == Nov. 20, 2000 at 12:30PM PST
(PVFS2006.pdf) 719.354 == Dec 19, 2001 at 0830 PST

datestr(datenum(2000,1,1,0,0,0) + 324.521) == 20-Nov-2000 12:30:14

From LA00A505.305
REM Time of first profile --------> 2000/11/20 15:00:00 % probably wrong
REM Deployment Start Date/Time ---> 2000/11/20 15:00:00 % probably wrong
305.010 -9999 -9999 -9999 -9999 -9999 %Line 63
308.500 8.1 41.4 21.8 .0 15.13 % Line 398

Using the method above:
datestr(datenum(2000,1,1,0,0,0) + 305.01) == 01-Nov-2000 00:14:24

datestr(datenum(2000,1,1,0,0,0) + 308.5) == 04-Nov-2000 12:00:00

398-63=335+1 % how far into the data is ling 398?

From our cdf:
ncload ('LA00A5.cdf','time')
ncload ('LA00A5.cdf','time2')

[time(1) time2(1)] = 2451850 900000

[time(336) time2(336)] = 2451853 43200000

gregorian(time(1)+time2(1)/(86400000)) = 2000 11 1 0 15 0

gregorian(time(336)+time2(336)/(86400000)) = 2000 11 4 12 0 0

*** from the above, I think the conversion is correct.

However... If their data is all PST, that's GMT-8, so that may be part of the offset. We could also possibly get 12 hours one way or the other from varying definitions of Julian, but I'm not sure what we can do to find the time offset of 16 hours.

if PST is +8 + the previous data was corrected to GMT the wrong way + this data isn't corrected at all that would make 16 hrs ← WRONG

corrected the programs + reprocessed the data with the correct time newest, best version of everything is dated 5/10

The initial conversion read Jan 1 at noon be 1.5, not 0.5, fixing this + converting to GMT allowed Time series to overlay except:
1) bin 1 starts 1 day early in each file
2) SAIC (older data) has errors fill.d + some additional spikes remove