BAMEX 2003 MIPS Correction Record

In 2003, three mobile sounding systems were deployed by the BAMEX field project. Two were operated by NCAR/EOL, and a third was operated by students and faculty of the University of Huntsville, Alabama. This third system was referred to as MIPS.

In 2006, David Ahijevych of MMM detected errors in some of the launch times of the MIPS soundings by examining differences between sounding data and temporally matched radar data. After comparing the sounding times (indicated in the filenames) with log entries written during the field campaign, it was clear that many, but not all, of the times were incorrect. The errors likely occurred during tor prior to data collection however, the origin of the errors is still unclear. A comparison of the field loc (assumed to be accurate) and original filenames suggests that the true launch times are about 5 hours (plus or minus 10 minutes) later than the original filenames indicated, although many launches did not follow this pattern.

A file time was changed if: a corresponding launch was recorded in the field log with a similar time, if a system operator left a comment in the file listing a time, if the locations in the file and log coincided within a tenth of a degree, and/or if comments in the file corresponded to information from the fied catalog (http://catalog.eol.ucar.edu/cgi-bin/catalog/bamex/report/index).

Field Log's IOP#	CORRECTED filename	original filename	Evidence for change of filename	filename change to #hours later
4	D200306022200QC.cls	D200306022200QC.cls	(no problems) Note: GMT line of header mismatch with filename	0
5	D200306052010QC.cls	D200306052010QC.cls	(no problems) Note: GMT line of header mismatch with filename	0
	D200306060010QC.cls	D200306060010QC.cls	(no problems) Note: GMT line of header mismatch with filename	0
None "Drive Day"	D200306072236QC.cls	D200306072345QC.cls	The only sounding on 7th (No IOP time)	1:09
GBOS2 MCS	D200306080130QC.cls	D200306080130QC.cls	(no problems) Note: GMT line of header mismatch with filename	0
	D200306080300QC.cls	D200306080300QC.cls	(no problems) Note: GMT line of header mismatch with filename	0
	D200306080500QC.cls	D200306080500QC.cls	(no problems) Note: GMT line of header mismatch with filename	0
7	D200306100515QC.cls	D200306100400QC.cls	GMT in file header matched log to within 10 minutes (GMT mismatched with original filename)	1:15
None	D200306131045QC.cls	D200306131045QC.cls	Test, Removed from final archive. Operator comment: "tim, training, flight." No record of in either log or field catalog.	
	D200306142155QC.cls	D200306141658QC.cls	by process of elimination	4:57
	D200306170050QC.cls	D200306161953QC.cls	by process of elimination	4:57
	D200306172348QC.cls	D200306171844QC.cls	comment in file	5:04
10	D200306220103QC.cls	D200306212103QC.cls	comment in file	4:00
	D200306220356QC.cls	D200306212312QC.cls	comment in file	4:44
	D200306220535QC.cls	D200306240034QC.cls	comment in file	4:56
Pre-launch for IOP-11	D200306221707QC.cls	D200306221707QC.cls	field catalog and field notes	0
11	D200306230053QC.cls	D200306221957QC.cls	comment in file	4:57
	D200306230208QC.cls	D200306222111QC.cls	comment in file	4:57
	D200306230330QC.cls	D200306222233QC.cls	comment in file	4:57
	D200306230522QC.cls	D200306230025QC.cls	comment in file	4:57
12	D200306240535QC.cls	D200306220036QC.cls	by process of elimination	5:01
	D200306240623QC.cls	D200306240122QC.cls	comment in file	5:00
	D200306240740QC.cls	D200306240238QC.cls	comment in file	5:02

13	D200306260010QC.cls	D200306251942QC.cls	by process of elimination	4:28
	D200306260150QC.cls	D200306252050QC.cls	by process of elimination	5:00
	D200306260445QC.cls	D200306252259QC.cls	by process of elimination	5:46
	D200306260518QC.cls	D200306260018QC.cls	by process of elimination	5:00
Pre-launch for IOP-14	D200306281735QC.cls	D200306281735QC.cls	field catalog and field notes	0
None "Drive Day"	D200306282330QC.cls	D200306281836QC.cls	by process of elimination (Note: catalog does not list any IOP containing Jun 28)	4:54
	D200306290330QC.cls	D200306282225QC.cls	by process of elimination	5:05
	D200306290430QC.cls	D200306282350QC.cls	by process of elimination	4:50
	D200306290818QC.cls	D200306290320QC.cls	by process of elimination	4:58
15	D200306292112QC.cls	D200306291614QC.cls	by process of elimination	4:58
	D200306292215QC.cls	D200306291716QC.cls	comment in file	4:59
	D200306292307QC.cls	D200306291809QC.cls	comment in file	4:58
	D200306300009QC.cls	D200306291911QC.cls	by process of elimination	4:58
	D200306300112QC.cls	D200306292015QC.cls	by process of elimination	4:57
Part of hourly releases of IOP-16	D200307030049QC.cls	D200307030049QC.cls	field catalog and field notes	0
16	D200307030242QC.cls	D200307022150QC.cls	comment in file	0
	D200307030340QC.cls	D200307022242QC.cls	by process of elimination	4:58
	D200307030443QC.cls	D200307022344QC.cls	by process of elimination	5:01
	D200307030800QC.cls	D200307030210QC.cls	comment in file (note: corrected launch time is 15 min past catalog IOP time)	4:50
17	D200307041942QC.cls	D200307041942QC.cls	(no problems)	0
	D200307042055QC.cls	D200307042055QC.cls	(no problems)	0
	D200307042213QC.cls	D200307042213QC.cls	comment in file says lau ~2112 (is comment really true?) Comment is overridden, because previous file lasted 64 minutes.	0
	D200307042328QC.cls	D200307042333QC.cls	comment in file	-0:05
18	D200307060116QC.cls	D200307060129QC.cls	comment in file	-0:13
	D200307060218QC.cls	D200307060220QC.cls	comment in file	-0:02
	D200307060344QC.cls	D200307060344QC.cls	(no problems)	0
	D200307060533QC.cls	D200307060533QC.cls	(no problems)	0

Don't have soundings that match these field log entries:
6022050
6052115
680620
6100300
6100425
6100700
6282200
6290530   suspected to be D200306290039.bx3 which was removed during QC
7030400
7030640
7030640
7052319

Soundings removed during QC (uncorrected times in filenames):
D200306141049.bx3
D200306141055.bx3
D200306281723.bx3
D200306290039.bx3
D200306290100.bx3
D200306290245.bx3