**3.1.6.2.1 NOAA KLM Format (Version 2, pre-April 28, 2005)**

The AMSU-A Data Set Header Record format (Version 2, pre-April 28, 2005) is documented in [Table 8.3.1.6.2.1-1](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/html/c8/sec83162-1.htm#t8316211). See the [legend](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/html/c8/sec831-1.htm#legend) in Section 8.3.1.1 for further explanation of the headings on this table.

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| **Table 8.3.1.6.2.1-1. Format of AMSU-A Data Set Header Record (Version 2, pre-April 28, 2005).** | | | | | | | | |
| **Field Name** | **Start Octet** | **End Octet** | **Data Type** | **Word Size** | **Number of Words** | **Scale Factor** | **Units** | **Notes** |
| Data Set Creation Site ID CMS = Centre de Meteorologie Spatiale/France; DSS = Dundee Satellite Receiving Station/UK;  NSS = National Environmental Satellite, Data and Information Service/USA; UKM = United Kingdom Meteorological Office/UK | 1 | 3 | c | 3 | 1 | 0 |  |  |
| <ASCII blank = x20> | 4 | 4 | c | 1 | 1 | 0 |  |  |
| NOAA Level 1b Format Version Number 1=TIROS-N, NOAA-6 through NOAA-14; 2=NOAA-15, -16, -17 (pre-April 28, 2005); 3=all satellites post-April 28, 2005. | 5 | 6 | u | 2 | 1 | 0 |  |  |
| NOAA Level 1b Format Version Year (four digits, e.g., 1999) | 7 | 8 | u | 2 | 1 | 0 |  |  |
| NOAA Level 1b Format Version Day of Year (e.g., 365) | 9 | 10 | u | 2 | 1 | 0 |  |  |
| <Reserved for Logical Record Length> For Creation Site use only. Logical Record Length of NOAA Level 1b data set prior to processing. | 11 | 12 | u | 2 | 1 | 0 | octets |  |
| <Reserved for Block Size> For Creation Site use only. Block Size of NOAA Level 1b data set prior to processing. | 13 | 14 | u | 2 | 1 | 0 | octets |  |
| Count of Header Records in this Data Set | 15 | 16 | u | 2 | 1 | 0 |  |  |
| <Zero Fill> | 17 | 22 | i | 2 | 3 | 0 |  |  |
| Data Set Name | 23 | 64 | c | 42 | 1 | 0 |  |  |
| Processing Block Identification | 65 | 72 | c | 8 | 1 | 0 |  |  |
| NOAA Spacecraft Identification Code 2 = NOAA-16; 4 = NOAA-15; 6 = NOAA-17 7 = NOAA-18 8 = NOAA-P 11 = MetOp-1 12 = MetOp=A 13 = MetOp-3 | 73 | 74 | u | 2 | 1 | 0 |  |  |
| Instrument ID bits 15-8: AMSU-A2 ID Number 2 = Engineering Model, s/n 101; 6 = Protoflight Model (PFM), s/n 102 (NOAA-15); 10 = Flight Model (FM) 1, s/n 103 (NOAA-16); 14 = FM 2, s/n 104 (NOAA-17)  bits 7-0: AMSU-A1 ID Number 1 = Engineering Model, s/n 101; 5 = PFM, s/n 102 (NOAA-16) 9 = FM 1, s/n 103 (NOAA-15) 13 = FM 2, s/n 104 (NOAA-17) | 75 | 76 | u | 2 | 1 | 0 |  |  |
| Data Type Code 10 = AMSU-A | 77 | 78 | u | 2 | 1 | 0 |  |  |
| TIP Source Code 0 = unused, 1 = GAC embedded AMSU and TIP 2 = stored TIP (STIP) 3 = HRPT/LAC embedded AMSU and TIP 4 = stored AIP (SAIP) | 79 | 80 | u | 2 | 1 | 0 |  |  |
| Start of Data Set Day Count starting from 0 at 00h, 1 Jan 1950 | 81 | 84 | u | 4 | 1 | 0 |  |  |
| Start of Data Set Year (four digits, e.g., 1999) | 85 | 86 | u | 2 | 1 | 0 |  |  |
| Start of Data Set Day of Year (e.g., 365) | 87 | 88 | u | 2 | 1 | 0 |  |  |
| Start of Data Set UTC Time of Day | 89 | 92 | u | 4 | 1 | 0 | milliseconds |  |
| End of Data Set Day Count starting from 0 at 00h, 1 Jan 1950 | 93 | 96 | u | 4 | 1 | 0 |  |  |
| End of Data Set Year (four digits, e.g., 1999) | 97 | 98 | u | 2 | 1 | 0 |  |  |
| End of Data Set Day of Year (e.g., 365) | 99 | 100 | u | 2 | 1 | 0 |  |  |
| End of Data Set UTC Time of Day | 101 | 104 | u | 4 | 1 | 0 | milliseconds |  |
| Year of Last CPIDS Update (four digits, e.g., 1999) | 105 | 106 | u | 2 | 1 | 0 |  |  |
| Day of Year of Last CPIDS Update (e.g., 365) | 107 | 108 | u | 2 | 1 | 0 |  |  |
| Offset between Start of Scan and Center of First FOV | 109 | 110 | i | 2 | 1 | 0 | milliseconds |  |
| <Zero Fill> | 111 | 120 | i | 2 | 5 | 0 |  |  |
| **DATA SET QUALITY INDICATORS** | | | | | | | | |
| Instrument Status A2 (If bits 9, 10, 11 and 12 all indicate 0, the instrument is operating with the antenna in warm cal position. For cold cal position, bits 13 and 14: 0=6.667; 1=8.333; 2=9.999; 3=13.332 degrees from -Z) bits 31 - 15: <zero fill> bit 14: cold cal position, msb bit 13: cold cal position, lsb bit 12: antenna in nadir position (0 = no; 1 = yes) bit 11: antenna in cold cal position (0 = no; 1 = yes) bit 10: antenna in warm cal position (0 = no; 1 = yes) bit 9: full scan mode (0 = no; 1 = yes) bits 5 - 8: <zero fill> bit 4: survival heater (0 = off; 1 = on) bit 3: module power (0 = disconnect; 1 = connect) bit 2: compensator motor (0 = off; 1 = on) bit 1: scanner A2 power (0 = off; 1 = on) bit 0: <zero fill> | 121 | 124 | u | 4 | 1 | 0 |  |  |
| <Zero Fill> | 125 | 126 | i | 2 | 1 | 0 |  |  |
| Record Number of Status Change of A2 (if 0, none occurred) | 127 | 128 | u | 2 | 1 | 0 |  |  |
| Second Instrument Status A2 (if previous word is 0, no change) | 129 | 132 | u | 4 | 1 | 0 |  |  |
| Instrument Status A1 (If bits 9, 10, 11 and 12 all indicate 0, the instrument is operating with the antenna in warm cal position. For cold cal position, bits 13 and 14: 0=6.667; 1=8.333; 2=9.999; 3=13.332 degrees from -Z) bits 31 - 15: <zero fill> bit 14: cold cal position, msb bit 13: cold cal position, lsb bit 12: antenna in nadir position (0 = no; 1 = yes) bit 11: antenna in cold cal position (0 = no; 1 = yes) bit 10: antenna in warm cal position (0 = no; 1 = yes) bit 9: full scan mode (0 = no; 1 = yes) bits 8 - 6: <zero fill> bit 5: module power (0 = disconnect; 1 = connect) bit 4: survival heater (0 = off; 1 = on) bit 3: Phase Lock Loop (0 = redundant; 1 = primary) bit 2: scanner A1-2 power (0 = off; 1 = on) bit 1: scanner A1-1 power (0 = off; 1 = on) bit 0: <zero fill> | 133 | 136 | u | 4 | 1 | 0 |  |  |
| <Zero Fill> | 137 | 138 | i | 2 | 1 | 0 |  |  |
| Record Number of Status Change of A1 (if 0, none occurred) | 139 | 140 | u | 2 | 1 | 0 |  |  |
| Second Instrument Status A1 (if previous word is 0, no change) | 141 | 144 | u | 4 | 1 | 0 |  |  |
| Count of Data Records in this Data Set | 145 | 146 | u | 2 | 1 | 0 |  |  |
| Count of Calibrated, Earth Located Scan Lines in this Data Set | 147 | 148 | u | 2 | 1 | 0 |  |  |
| Count of Missing Scan Lines | 149 | 150 | u | 2 | 1 | 0 |  |  |
| Count of Data Gaps in this Data Set | 151 | 152 | u | 2 | 1 | 0 |  |  |
| Count of AMSU Frames without Frame Sync Word Errors | 153 | 154 | u | 2 | 1 | 0 |  |  |
| Count of PACS Detected TIP Parity Errors | 155 | 156 | u | 2 | 1 | 0 |  |  |
| Sum of All Auxiliary Sync Errors Detected in the Input Data | 157 | 158 | u | 2 | 1 | 0 |  |  |
| Time Sequence Error (0 = none; otherwise the record number of the first occurrence) | 159 | 160 | u | 2 | 1 | 0 |  |  |
| Time Sequence Error Code (These are bit flags taken from "Scan Line Quality Flags [Time Problem Code]" on data record reported in "Time Sequence Error" field above. If a bit is on (=1) then the statement is true. bits 15 - 8: <zero fill> bit 7: time field is bad but can probably be inferred from the previous good time. bit 6: time field is bad and can't be inferred from the previous good time. bit 5: this record starts a sequence that is inconsistent with previous times (i.e., there is a time discontinuity). This may or may not be associated with a spacecraft clock update. bit 4: start of a sequence that apparently repeats scan times that have been previously accepted. bits 3 - 0: <zero fill> | 161 | 162 | u | 2 | 1 | 0 |  |  |
| SOCC Clock Update Indicator ( 0 = none during this orbit; otherwise the record number of the first occurrence) | 163 | 164 | u | 2 | 1 | 0 |  |  |
| Earth Location Error Indicator ( 0 = none during this orbit; otherwise the record number of the first occurrence) | 165 | 166 | u | 2 | 1 | 0 |  |  |
| Earth Location Error Code (These are bit flags taken from "Scan Line Quality Flags [Earth Location Problem Code]" on data record reported in "Earth Location Error Indicator" field above. If a bit is on (=1) then the statement is true.) bits 15 - 8: <zero fill> bit 7: not earth located because of bad time; earth location fields zero filled. bit 6: earth location questionable because of questionable time code. (See time problem flags.) bit 5: earth location questionable -- only marginal agreement with reasonableness check. bit 4: earth location questionable -- fails reasonableness check. bit 3: earth location questionable because of antenna position check [rs060794.doc & rs062094.do1] bits 2-0: <zero fill> | 167 | 168 | u | 2 | 1 | 0 |  |  |
| PACS Status Bit Field bits 15-3: <zero fill> bit 2: pseudonoise (0 = normal data; 1 = pseudonoise data) bit 1: tape direction (0 = time decrementing) bit 0: data mode (0 = test data; 1 = flight data) | 169 | 170 | u | 2 | 1 | 0 |  |  |
| PACS Data Source 0 = unused 1 = Fairbanks, AK 2 = Wallops Island, VA 3 = SOCC 4 = Svalbard, Norway 5 = Monterey, CA | 171 | 172 | u | 2 | 1 | 0 |  |  |
| <Zero Fill> | 173 | 176 | i | 4 | 1 | 0 |  |  |
| <Reserved for the Ingester> | 177 | 184 | c | 8 | 1 | 0 |  |  |
| <Reserved for Decommutation> | 185 | 192 | c | 8 | 1 | 0 |  |  |
| <Zero Fill> | 193 | 208 | i | 4 | 4 | 0 |  |  |
| **CALIBRATION** | | | | | | | | |
| <Zero Fill> | 209 | 210 | i | 2 | 1 | 0 |  |  |
| Instrument Temperature Sensor ID *Word 1:* 0 = RF Shelf A1-1; 1 = RF Mux A1-1 *Word 2:* 0 = RF Shelf A1-2; 1 = RF Mux A1-2 *Word 3:* 0 = RF Shelf A2; 1 = RF Mux A2 | 211 | 216 | u | 2 | 3 | 0 |  |  |
| RF Shelf A1-1 Minimum Reference Temperature, PLLO#1 | 217 | 218 | i | 2 | 1 | 2 | K |  |
| RF Shelf A1-1 Nominal Reference Temperature, PLLO#1 | 219 | 220 | i | 2 | 1 | 2 | K |  |
| RF Shelf A1-1 Maximum Reference Temperature, PLLO#1 | 221 | 222 | i | 2 | 1 | 2 | K |  |
| RF Shelf A1-2 Minimum Reference Temperature | 223 | 224 | i | 2 | 1 | 2 | K |  |
| RF Shelf A1-2 Nominal Reference Temperature | 225 | 226 | i | 2 | 1 | 2 | K |  |
| RF Shelf A1-2 Maximum Reference Temperature | 227 | 228 | i | 2 | 1 | 2 | K |  |
| RF Shelf A2 Minimum Reference Temperature | 229 | 230 | i | 2 | 1 | 2 | K |  |
| RF Shelf A2 Nominal Reference Temperature | 231 | 232 | i | 2 | 1 | 2 | K |  |
| RF Shelf A2 Maximum Reference Temperature | 233 | 234 | i | 2 | 1 | 2 | K |  |
| RF Shelf A1-1 Minimum Reference Temperature, PLLO#2 | 235 | 236 | i | 2 | 1 | 2 | K |  |
| RF Shelf A1-1 Nominal Reference Temperature, PLLO#2 | 237 | 238 | i | 2 | 1 | 2 | K |  |
| RF Shelf A1-1 Maximum Reference Temperature, PLLO#2 | 239 | 240 | i | 2 | 1 | 2 | K |  |
| RF Mux A1-1 Minimum Reference Temperature, PLLO#1 | 241 | 242 | i | 2 | 1 | 2 | K |  |
| RF Mux A1-1 Nominal Reference Temperature, PLLO#1 | 243 | 244 | i | 2 | 1 | 2 | K |  |
| RF Mux A1-1 Maximum Reference Temperature, PLLO#1 | 245 | 246 | i | 2 | 1 | 2 | K |  |
| RF Mux A1-2 Minimum Reference Temperature | 247 | 248 | i | 2 | 1 | 2 | K |  |
| RF Mux A1-2 Nominal Reference Temperature | 249 | 250 | i | 2 | 1 | 2 | K |  |
| RF Mux A1-2 Maximum Reference Temperature | 251 | 252 | i | 2 | 1 | 2 | K |  |
| RF Mux A2 Minimum Reference Temperature | 253 | 254 | i | 2 | 1 | 2 | K |  |
| RF Mux A2 Nominal Reference Temperature | 255 | 256 | i | 2 | 1 | 2 | K |  |
| RF Mux A2 Maximum Reference Temperature | 257 | 258 | i | 2 | 1 | 2 | K |  |
| RF Mux A1-1 Minimum Reference Temperature, PLLO#2 | 259 | 260 | i | 2 | 1 | 2 | K |  |
| RF Mux A1-1 Nominal Reference Temperature, PLLO#2 | 261 | 262 | i | 2 | 1 | 2 | K |  |
| RF Mux A1-1 Maximum Reference Temperature, PLLO#2 | 263 | 264 | i | 2 | 1 | 2 | K |  |
| Warm Target Fixed Bias Corr Ch1 at Min RF Shelf Temp | 265 | 266 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch1 at Nom RF Shelf Temp | 267 | 268 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch1 at Max RF Shelf Temp | 269 | 270 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch1 | 271 | 272 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch2 at Min RF Shelf Temp | 273 | 274 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch2 at Nom RF Shelf Temp | 275 | 276 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch2 at Max RF Shelf Temp | 277 | 278 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch2 | 279 | 280 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch3 at Min RF Shelf Temp | 281 | 282 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch3 at Nom RF Shelf Temp | 283 | 284 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch3 at Max RF Shelf Temp | 285 | 286 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch3 | 287 | 288 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch4 at Min RF Shelf Temp | 289 | 290 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch4 at Nom RF Shelf Temp | 291 | 292 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch4 at Max RF Shelf Temp | 293 | 294 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch4 | 295 | 296 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch5 at Min RF Shelf Temp | 297 | 298 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch5 at Nom RF Shelf Temp | 299 | 300 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch5 at Max RF Shelf Temp | 301 | 302 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch5 | 303 | 304 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch6 at Min RF Shelf Temp | 305 | 306 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch6 at Nom RF Shelf Temp | 307 | 308 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch6 at Max RF Shelf Temp | 309 | 310 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch6 | 311 | 312 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch7 at Min RF Shelf Temp | 313 | 314 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch7 at Nom RF Shelf Temp | 315 | 316 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch7 at Max RF Shelf Temp | 317 | 318 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch7 | 319 | 320 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch8 at Min RF Shelf Temp | 321 | 322 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch8 at Nom RF Shelf Temp | 323 | 324 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch8 at Max RF Shelf Temp | 325 | 326 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch8 | 327 | 328 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch9 at Min RF Shelf Temp | 329 | 330 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch9 at Nom RF Shelf Temp | 331 | 332 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch9 at Max RF Shelf Temp | 333 | 334 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch9 | 335 | 336 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch10 at Min RF Shelf Temp | 337 | 338 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch10 at Nom RF Shelf Temp | 339 | 340 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch10 at Max RF Shelf Temp | 341 | 342 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch10 | 343 | 344 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch11 at Min RF Shelf Temp | 345 | 346 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch11 at Nom RF Shelf Temp | 347 | 348 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch11 at Max RF Shelf Temp | 349 | 350 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch11 | 351 | 352 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch12 at Min RF Shelf Temp | 353 | 354 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch12 at Nom RF Shelf Temp | 355 | 356 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch12 at Max RF Shelf Temp | 357 | 358 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch12 | 359 | 360 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch13 at Min RF Shelf Temp | 361 | 362 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch13 at Nom RF Shelf Temp | 363 | 364 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch13 at Max RF Shelf Temp | 365 | 366 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch13 | 367 | 368 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch14 at Min RF Shelf Temp | 369 | 370 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch14 at Nom RF Shelf Temp | 371 | 372 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch14 at Max RF Shelf Temp | 373 | 374 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch14 | 375 | 376 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch15 at Min RF Shelf Temp | 377 | 378 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch15 at Nom RF Shelf Temp | 379 | 380 | i | 2 | 1 | 3 | K |  |
| Warm Target Fixed Bias Corr Ch15 at Max RF Shelf Temp | 381 | 382 | i | 2 | 1 | 3 | K |  |
| Cold Space Fixed Bias Corr Ch15 | 383 | 384 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch9 at PLLO#2 RF Shelf A1-1 Min Ref Temp | 385 | 386 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch9 at PLLO#2 RF Shelf A1-1 Nom Ref Temp | 387 | 388 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch9 at PLLO#2 RF Shelf A1-1 Max Ref Temp | 389 | 390 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch10 at PLLO#2 RF Shelf A1-1 Min Ref Temp | 391 | 392 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch10 at PLLO#2 RF Shelf A1-1 Nom Ref Temp | 393 | 394 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch10 at PLLO#2 RF Shelf A1-1 Max Ref Temp | 395 | 396 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch11 at PLLO#2 RF Shelf A1-1 Min Ref Temp | 397 | 398 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch11 at PLLO#2 RF Shelf A1-1 Nom Ref Temp | 399 | 400 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch11 at PLLO#2 RF Shelf A1-1 Max Ref Temp | 401 | 402 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch12 at PLLO#2 RF Shelf A1-1 Min Ref Temp | 403 | 404 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch12 at PLLO#2 RF Shelf A1-1 Nom Ref Temp | 405 | 406 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch12 at PLLO#2 RF Shelf A1-1 Max Ref Temp | 407 | 408 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch13 at PLLO#2 RF Shelf A1-1 Min Ref Temp | 409 | 410 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch13 at PLLO#2 RF Shelf A1-1 Nom Ref Temp | 411 | 412 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch13 at PLLO#2 RF Shelf A1-1 Max Ref Temp | 413 | 414 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch14 at PLLO#2 RF Shelf A1-1 Min Ref Temp | 415 | 416 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch14 at PLLO#2 RF Shelf A1-1 Nom Ref Temp | 417 | 418 | i | 2 | 1 | 3 | K |  |
| Warm Target Bias Corr Ch14 at PLLO#2 RF Shelf A1-1 Max Ref Temp | 419 | 420 | i | 2 | 1 | 3 | K |  |
| Nonlinearity Coef. Ch 1 at minimum reference temperature | 421 | 424 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 1 at nominal reference temperature | 425 | 428 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 1 at maximum reference temperature | 429 | 432 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 2 at minimum reference temperature | 433 | 436 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 2 at nominal reference temperature | 437 | 440 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 2 at maximum reference temperature | 441 | 444 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 3 at minimum reference temperature | 445 | 448 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 3 at nominal reference temperature | 449 | 452 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 3 at maximum reference temperature | 453 | 456 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 4 at minimum reference temperature | 457 | 460 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 4 at nominal reference temperature | 461 | 464 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 4 at maximum reference temperature | 465 | 468 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 5 at minimum reference temperature | 469 | 472 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 5 at nominal reference temperature | 473 | 476 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 5 at maximum reference temperature | 477 | 480 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 6 at minimum reference temperature | 481 | 484 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 6 at nominal reference temperature | 485 | 488 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 6 at maximum reference temperature | 489 | 492 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 7 at minimum reference temperature | 493 | 496 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 7 at nominal reference temperature | 497 | 500 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 7 at maximum reference temperature | 501 | 504 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 8 at minimum reference temperature | 505 | 508 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 8 at nominal reference temperature | 509 | 512 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 8 at maximum reference temperature | 513 | 516 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 9 at minimum reference temperature | 517 | 520 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 9 at nominal reference temperature | 521 | 524 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 9 at maximum reference temperature | 525 | 528 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 10 at minimum reference temperature | 529 | 532 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 10 at nominal reference temperature | 533 | 536 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 10 at maximum reference temperature | 537 | 540 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 11 at minimum reference temperature | 541 | 544 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 11 at nominal reference temperature | 545 | 548 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 11 at maximum reference temperature | 549 | 552 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 12 at minimum reference temperature | 553 | 556 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 12 at nominal reference temperature | 557 | 560 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 12 at maximum reference temperature | 561 | 564 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 13 at minimum reference temperature | 565 | 568 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 13 at nominal reference temperature | 569 | 572 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 13 at maximum reference temperature | 573 | 576 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 14 at minimum reference temperature | 577 | 580 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 14 at nominal reference temperature | 581 | 584 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 14 at maximum reference temperature | 585 | 588 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 15 at minimum reference temperature | 589 | 592 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 15 at nominal reference temperature | 593 | 596 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 15 at maximum reference temperature | 597 | 600 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 9 for PLLO #2 at minimum reference temperature | 601 | 604 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 9 for PLLO #2 at nominal reference temperature | 605 | 608 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 9 for PLLO #2 at maximum reference temperature | 609 | 612 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 10 for PLLO #2 at minimal reference temperature | 613 | 616 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 10 for PLLO #2 at nominal reference temperature | 617 | 620 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 10 for PLLO #2 at maximum reference temperature | 621 | 624 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 11 for PLLO #2 at minimum reference temperature | 625 | 628 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 11 for PLLO #2 at nominal reference temperature | 629 | 632 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 11 for PLLO #2 at maximum reference temperature | 633 | 636 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 12 for PLLO #2 at minimum reference temperature | 637 | 640 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 12 for PLLO #2 at nominal reference temperature | 641 | 644 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 12 for PLLO #2 at maximum reference temperature | 645 | 648 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 13 for PLLO #2 at minimum reference temperature | 649 | 652 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 13 for PLLO #2 at nominal reference temperature | 653 | 656 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 13 for PLLO #2 at maximum reference temperature | 657 | 660 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 14 for PLLO #2 at minimum reference temperature | 661 | 664 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 14 for PLLO #2 at nominal reference temperature | 665 | 668 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| Nonlinearity Coef. Ch 14 for PLLO #2 at maximum reference temperature | 669 | 672 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| <Zero Fill> | 673 | 688 | i | 4 | 1 | 6 | m2-sr-cm-1/mW |  |
| **TEMPERATURE-RADIANCE CONVERSION** | | | | | | | | |
| Temperature-radiance Ch 1 Central Wavenumber | 689 | 692 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 1 Constant 1 | 693 | 696 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 1 Constant 2, Slope | 697 | 700 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 2 Central Wavenumber | 701 | 704 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 2 Constant 1 | 705 | 708 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 2 Constant 2, Slope | 709 | 712 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 3 Central Wavenumber | 713 | 716 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 3 Constant 1 | 717 | 720 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 3 Constant 2, Slope | 721 | 724 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 4 Central Wavenumber | 725 | 728 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 4 Constant 1 | 729 | 732 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 4 Constant 2, Slope | 733 | 736 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 5 Central Wavenumber | 737 | 740 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 5 Constant 1 | 741 | 744 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 5 Constant 2, Slope | 745 | 748 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 6 Central Wavenumber | 749 | 752 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 6 Constant 1 | 753 | 756 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 6 Constant 2, Slope | 757 | 760 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 7 Central Wavenumber | 761 | 764 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 7 Constant 1 | 765 | 768 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 7 Constant 2, Slope | 769 | 772 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 8 Central Wavenumber | 773 | 776 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 8 Constant 1 | 777 | 780 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 8 Constant 2, Slope | 781 | 784 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 9 Central Wavenumber | 785 | 788 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 9 Constant 1 | 789 | 792 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 9 Constant 2, Slope | 793 | 796 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 10 Central Wavenumber | 797 | 800 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 10 Constant 1 | 801 | 804 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 10 Constant 2, Slope | 805 | 808 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 11 Central Wavenumber | 809 | 812 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 11 Constant 1 | 813 | 816 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 11 Constant 2, Slope | 817 | 820 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 12 Central Wavenumber | 821 | 824 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 12 Constant 1 | 825 | 828 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 12 Constant 2, Slope | 829 | 832 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 13 Central Wavenumber | 833 | 836 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 13 Constant 1 | 837 | 840 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 13 Constant 2, Slope | 841 | 844 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 14 Central Wavenumber | 845 | 848 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 14 Constant 1 | 849 | 852 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 14 Constant 2, Slope | 853 | 856 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 15 Central Wavenumber | 857 | 860 | i | 4 | 1 | 6 | cm-1 |  |
| Temperature-radiance Ch 15 Constant 1 | 861 | 864 | i | 4 | 1 | 6 |  |  |
| Temperature-radiance Ch 15 Constant 2, Slope | 865 | 868 | i | 4 | 1 | 6 |  |  |
| <Zero Fill> | 869 | 880 | i | 4 | 3 | 0 |  |  |
| **NAVIGATION** | | | | | | | | |
| Reference Ellipsoid Model ID The ellipsoid is a mathematically tractable approximation of the geoid, which is an equipotential surface at mean sea level. The maximum departure of the ellipsoid from the geoid is approximately +/- 65 meters. (WGS-72 = World Geodetic Survey 1972) | 881 | 888 | c | 8 | 1 | 0 |  |  |
| Nadir Earth Location Tolerance | 889 | 890 | u | 2 | 1 | 1 | kilometers |  |
| Earth Location Bit Field bits 15 - 2: <zero fill> bit 1: reasonableness test active (0 = inactive) bit 0: attitude error correction (0 = not corrected) | 891 | 892 | u | 2 | 1 | 0 |  |  |
| <Zero Fill> | 893 | 894 | i | 2 | 1 | 0 |  |  |
| Constant Roll Attitude Error | 895 | 896 | i | 2 | 1 | 3 | degrees |  |
| Constant Pitch Attitude Error | 897 | 898 | i | 2 | 1 | 3 | degrees |  |
| Constant Yaw Attitude Error | 899 | 900 | i | 2 | 1 | 3 | degrees |  |
| Epoch Year for Orbit Vector (e.g., 1999) | 901 | 902 | u | 2 | 1 | 0 | year |  |
| Day of Epoch Year for Orbit Vector (e.g., 365) | 903 | 904 | u | 2 | 1 | 0 | day |  |
| Epoch UTC Time of Day for Orbit Vector | 905 | 908 | u | 4 | 1 | 0 | milliseconds |  |
| Semi-major Axis *(at the orbit vector epoch time)* | 909 | 912 | i | 4 | 1 | 5 | kilometers |  |
| Eccentricity *(at the orbit vector epoch time)* | 913 | 916 | i | 4 | 1 | 8 |  |  |
| Inclination *(at the orbit vector epoch time)* | 917 | 920 | i | 4 | 1 | 5 | degrees |  |
| Argument of Perigee *(at the orbit vector epoch time)* | 921 | 924 | i | 4 | 1 | 5 | degrees |  |
| Right Ascension of the Ascending Node *(at the orbit vector epoch time)* | 925 | 928 | i | 4 | 1 | 5 | degrees |  |
| Mean Anomaly *(at the orbit vector epoch time)* | 929 | 932 | i | 4 | 1 | 5 | degrees |  |
| Position Vector x Component *(at the orbit vector epoch time)* | 933 | 936 | i | 4 | 1 | 5 | kilometers |  |
| Position Vector y Component *(at the orbit vector epoch time)* | 937 | 940 | i | 4 | 1 | 5 | kilometers |  |
| Position Vector z Component *(at the orbit vector epoch time)* | 941 | 944 | i | 4 | 1 | 5 | kilometers |  |
| Velocity Vector x-dot Component *(at the orbit vector epoch time)* | 945 | 948 | i | 4 | 1 | 8 | kilometers/sec |  |
| Velocity Vector y-dot Component *(at the orbit vector epoch time)* | 949 | 952 | i | 4 | 1 | 8 | kilometers/sec |  |
| Velocity Vector z-dot Component *(at the orbit vector epoch time)* | 953 | 956 | i | 4 | 1 | 8 | kilometers/sec |  |
| Earth/Sun Distance Ratio *(at the orbit vector epoch time); relative tgo the mead distance of 1AU* | 957 | 960 | u | 4 | 1 | 6 |  |  |
| <Zero Fill> | 961 | 976 | i | 4 | 4 | 0 |  |  |
| **AMSU-A1 DIGITAL A CONVERSION** | | | | | | | | |
| Scan Motor A1-1 Temperature Coefficient 0 | 977 | 980 | i | 4 | 1 | 4 | K |  |
| Scan Motor A1-1 Temperature Coefficient 1 | 981 | 984 | i | 4 | 1 | 9 | K/count |  |
| Scan Motor A1-1 Temperature Coefficient 2 | 985 | 988 | i | 4 | 1 | 16 | K/count2 |  |
| Scan Motor A1-1 Temperature Coefficient 3 | 989 | 992 | i | 4 | 1 | 20 | K/count3 |  |
| Scan Motor A1-2 Temperature Coefficient 0 | 993 | 996 | i | 4 | 1 | 4 | K |  |
| Scan Motor A1-2 Temperature Coefficient 1 | 997 | 1000 | i | 4 | 1 | 9 | K/count |  |
| Scan Motor A1-2 Temperature Coefficient 2 | 1001 | 1004 | i | 4 | 1 | 16 | K/count2 |  |
| Scan Motor A1-2 Temperature Coefficient 3 | 1005 | 1008 | i | 4 | 1 | 20 | K/count3 |  |
| Feed Horn A1-1 Temperature Coefficient 0 | 1009 | 1012 | i | 4 | 1 | 4 | K |  |
| Feed Horn A1-1 Temperature Coefficient 1 | 1013 | 1016 | i | 4 | 1 | 9 | K/count |  |
| Feed Horn A1-1 Temperature Coefficient 2 | 1017 | 1020 | i | 4 | 1 | 16 | K/count2 |  |
| Feed Horn A1-1 Temperature Coefficient 3 | 1021 | 1024 | i | 4 | 1 | 20 | K/count3 |  |
| Feed Horn A1-2 Temperature Coefficient 0 | 1025 | 1028 | i | 4 | 1 | 4 | K |  |
| Feed Horn A1-2 Temperature Coefficient 1 | 1029 | 1032 | i | 4 | 1 | 9 | K/count |  |
| Feed Horn A1-2 Temperature Coefficient 2 | 1033 | 1036 | i | 4 | 1 | 16 | K/count2 |  |
| Feed Horn A1-2 Temperature Coefficient 3 | 1037 | 1040 | i | 4 | 1 | 20 | K/count3 |  |
| RF Mux A1-1 Temperature Coefficient 0 | 1041 | 1044 | i | 4 | 1 | 4 | K |  |
| RF Mux A1-1 Temperature Coefficient 1 | 1045 | 1048 | i | 4 | 1 | 9 | K/count |  |
| RF Mux A1-1 Temperature Coefficient 2 | 1049 | 1052 | i | 4 | 1 | 16 | K/count2 |  |
| RF Mux A1-1 Temperature Coefficient 3 | 1053 | 1056 | i | 4 | 1 | 20 | K/count3 |  |
| RF Mux A1-2 Temperature Coefficient 0 | 1057 | 1060 | i | 4 | 1 | 4 | K |  |
| RF Mux A1-2 Temperature Coefficient 1 | 1061 | 1064 | i | 4 | 1 | 9 | K/count |  |
| RF Mux A1-2 Temperature Coefficient 2 | 1065 | 1068 | i | 4 | 1 | 16 | K/count2 |  |
| RF Mux A1-2 Temperature Coefficient 3 | 1069 | 1072 | i | 4 | 1 | 20 | K/count3 |  |
| Local Oscillator Channel 3 Temperature Coefficient 0 | 1073 | 1076 | i | 4 | 1 | 4 | K |  |
| Local Oscillator Channel 3 Temperature Coefficient 1 | 1077 | 1080 | i | 4 | 1 | 9 | K/count |  |
| Local Oscillator Channel 3 Temperature Coefficient 2 | 1081 | 1084 | i | 4 | 1 | 16 | K/count2 |  |
| Local Oscillator Channel 3 Temperature Coefficient 3 | 1085 | 1088 | i | 4 | 1 | 20 | K/count3 |  |
| Local Oscillator Channel 4 Temperature Coefficient 0 | 1089 | 1092 | i | 4 | 1 | 4 | K |  |
| Local Oscillator Channel 4 Temperature Coefficient 1 | 1093 | 1096 | i | 4 | 1 | 9 | K/count |  |
| Local Oscillator Channel 4 Temperature Coefficient 2 | 1097 | 1100 | i | 4 | 1 | 16 | K/count2 |  |
| Local Oscillator Channel 4 Temperature Coefficient 3 | 1101 | 1104 | i | 4 | 1 | 20 | K/count3 |  |
| Local Oscillator Channel 5 Temperature Coefficient 0 | 1105 | 1108 | i | 4 | 1 | 4 | K |  |
| Local Oscillator Channel 5 Temperature Coefficient 1 | 1109 | 1112 | i | 4 | 1 | 9 | K/count |  |
| Local Oscillator Channel 5 Temperature Coefficient 2 | 1113 | 1116 | i | 4 | 1 | 16 | K/count2 |  |
| Local Oscillator Channel 5 Temperature Coefficient 3 | 1117 | 1120 | i | 4 | 1 | 20 | K/count3 |  |
| Local Oscillator Channel 6 Temperature Coefficient 0 | 1121 | 1124 | i | 4 | 1 | 4 | K |  |
| Local Oscillator Channel 6 Temperature Coefficient 1 | 1125 | 1128 | i | 4 | 1 | 9 | K/count |  |
| Local Oscillator Channel 6 Temperature Coefficient 2 | 1129 | 1132 | i | 4 | 1 | 16 | K/count2 |  |
| Local Oscillator Channel 6 Temperature Coefficient 3 | 1133 | 1136 | i | 4 | 1 | 20 | K/count3 |  |
| Local Oscillator Channel 7 Temperature Coefficient 0 | 1137 | 1140 | i | 4 | 1 | 4 | K |  |
| Local Oscillator Channel 7 Temperature Coefficient 1 | 1141 | 1144 | i | 4 | 1 | 9 | K/count |  |
| Local Oscillator Channel 7 Temperature Coefficient 2 | 1145 | 1148 | i | 4 | 1 | 16 | K/count2 |  |
| Local Oscillator Channel 7 Temperature Coefficient 3 | 1149 | 1152 | i | 4 | 1 | 20 | K/count3 |  |
| Local Oscillator Channel 8 Temperature Coefficient 0 | 1153 | 1156 | i | 4 | 1 | 4 | K |  |
| Local Oscillator Channel 8 Temperature Coefficient 1 | 1157 | 1160 | i | 4 | 1 | 9 | K/count |  |
| Local Oscillator Channel 8 Temperature Coefficient 2 | 1161 | 1164 | i | 4 | 1 | 16 | K/count2 |  |
| Local Oscillator Channel 8 Temperature Coefficient 3 | 1165 | 1168 | i | 4 | 1 | 20 | K/count3 |  |
| Local Oscillator Channel 15 Temperature Coefficient 0 | 1169 | 1172 | i | 4 | 1 | 4 | K |  |
| Local Oscillator Channel 15 Temperature Coefficient 1 | 1173 | 1176 | i | 4 | 1 | 9 | K/count |  |
| Local Oscillator Channel 15 Temperature Coefficient 2 | 1177 | 1180 | i | 4 | 1 | 16 | K/count2 |  |
| Local Oscillator Channel 15 Temperature Coefficient 3 | 1181 | 1184 | i | 4 | 1 | 20 | K/count3 |  |
| PLLO #2 Channels 9 Through 14 Temperature Coefficient 0 | 1185 | 1188 | i | 4 | 1 | 4 | K |  |
| PLLO #2 Channels 9 Through 14 Temperature Coefficient 1 | 1189 | 1192 | i | 4 | 1 | 9 | K/count |  |
| PLLO #2 Channels 9 Through 14 Temperature Coefficient 2 | 1193 | 1196 | i | 4 | 1 | 16 | K/count2 |  |
| PLLO #2 Channels 9 Through 14 Temperature Coefficient 3 | 1197 | 1200 | i | 4 | 1 | 20 | K/count3 |  |
| PLLO #1 Channels 9 Through 14 Temperature Coefficient 0 | 1201 | 1204 | i | 4 | 1 | 4 | K |  |
| PLLO #1 Channels 9 Through 14 Temperature Coefficient 1 | 1205 | 1208 | i | 4 | 1 | 9 | K/count |  |
| PLLO #1 Channels 9 Through 14 Temperature Coefficient 2 | 1209 | 1212 | i | 4 | 1 | 16 | K/count2 |  |
| PLLO #1 Channels 9 Through 14 Temperature Coefficient 3 | 1213 | 1216 | i | 4 | 1 | 20 | K/count3 |  |
| PLLO (Reference Oscillator) Temperature Coefficient 0 | 1217 | 1220 | i | 4 | 1 | 4 | K |  |
| PLLO (Reference Oscillator) Temperature Coefficient 1 | 1221 | 1224 | i | 4 | 1 | 9 | K/count |  |
| PLLO (Reference Oscillator) Temperature Coefficient 2 | 1225 | 1228 | i | 4 | 1 | 16 | K/count2 |  |
| PLLO (Reference Oscillator) Temperature Coefficient 3 | 1229 | 1232 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 3 Temperature Coefficient 0 | 1233 | 1236 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 3 Temperature Coefficient 1 | 1237 | 1240 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 3 Temperature Coefficient 2 | 1241 | 1244 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 3 Temperature Coefficient 3 | 1245 | 1248 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 4 Temperature Coefficient 0 | 1249 | 1252 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 4 Temperature Coefficient 1 | 1253 | 1256 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 4 Temperature Coefficient 2 | 1257 | 1260 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 4 Temperature Coefficient 3 | 1261 | 1264 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 5 Temperature Coefficient 0 | 1265 | 1268 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 5 Temperature Coefficient 1 | 1269 | 1272 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 5 Temperature Coefficient 2 | 1273 | 1276 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 5 Temperature Coefficient 3 | 1277 | 1280 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 6 Temperature Coefficient 0 | 1281 | 1284 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 6 Temperature Coefficient 1 | 1285 | 1288 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 6 Temperature Coefficient 2 | 1289 | 1292 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 6 Temperature Coefficient 3 | 1293 | 1296 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 7 Temperature Coefficient 0 | 1297 | 1300 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 7 Temperature Coefficient 1 | 1301 | 1304 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 7 Temperature Coefficient 2 | 1305 | 1308 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 7 Temperature Coefficient 3 | 1309 | 1312 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 8 Temperature Coefficient 0 | 1313 | 1316 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 8 Temperature Coefficient 1 | 1317 | 1320 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 8 Temperature Coefficient 2 | 1321 | 1324 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 8 Temperature Coefficient 3 | 1325 | 1328 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 9/14 Temperature Coefficient 0 | 1329 | 1332 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 9/14 Temperature Coefficient 1 | 1333 | 1336 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 9/14 Temperature Coefficient 2 | 1337 | 1340 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 9/14 Temperature Coefficient 3 | 1341 | 1344 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 15 Temperature Coefficient 0 | 1345 | 1348 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 15 Temperature Coefficient 1 | 1349 | 1352 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 15 Temperature Coefficient 2 | 1353 | 1356 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 15 Temperature Coefficient 3 | 1357 | 1360 | i | 4 | 1 | 20 | K/count3 |  |
| IF Amplifier Channel 11/14 Temperature Coefficient 0 | 1361 | 1364 | i | 4 | 1 | 4 | K |  |
| IF Amplifier Channel 11/14 Temperature Coefficient 1 | 1365 | 1368 | i | 4 | 1 | 9 | K/count |  |
| IF Amplifier Channel 11/14 Temperature Coefficient 2 | 1369 | 1372 | i | 4 | 1 | 16 | K/count2 |  |
| IF Amplifier Channel 11/14 Temperature Coefficient 3 | 1373 | 1376 | i | 4 | 1 | 20 | K/count3 |  |
| IF Amplifier Channel 9 Temperature Coefficient 0 | 1377 | 1380 | i | 4 | 1 | 4 | K |  |
| IF Amplifier Channel 9 Temperature Coefficient 1 | 1381 | 1384 | i | 4 | 1 | 9 | K/count |  |
| IF Amplifier Channel 9 Temperature Coefficient 2 | 1385 | 1388 | i | 4 | 1 | 16 | K/count2 |  |
| IF Amplifier Channel 9 Temperature Coefficient 3 | 1389 | 1392 | i | 4 | 1 | 20 | K/count3 |  |
| IF Amplifier Channel 10 Temperature Coefficient 0 | 1393 | 1396 | i | 4 | 1 | 4 | K |  |
| IF Amplifier Channel 10 Temperature Coefficient 1 | 1397 | 1400 | i | 4 | 1 | 9 | K/count |  |
| IF Amplifier Channel 10 Temperature Coefficient 2 | 1401 | 1404 | i | 4 | 1 | 16 | K/count2 |  |
| IF Amplifier Channel 10 Temperature Coefficient 3 | 1405 | 1408 | i | 4 | 1 | 20 | K/count3 |  |
| IF Amplifier Channel 11 Temperature Coefficient 0 | 1409 | 1412 | i | 4 | 1 | 4 | K |  |
| IF Amplifier Channel 11 Temperature Coefficient 1 | 1413 | 1416 | i | 4 | 1 | 9 | K/count |  |
| IF Amplifier Channel 11 Temperature Coefficient 2 | 1417 | 1420 | i | 4 | 1 | 16 | K/count2 |  |
| IF Amplifier Channel 11 Temperature Coefficient 3 | 1421 | 1424 | i | 4 | 1 | 20 | K/count3 |  |
| DC/DC Converter Temperature Coefficient 0 | 1425 | 1428 | i | 4 | 1 | 4 | K |  |
| DC/DC Converter Temperature Coefficient 1 | 1429 | 1432 | i | 4 | 1 | 9 | K/count |  |
| DC/DC Converter Temperature Coefficient 2 | 1433 | 1436 | i | 4 | 1 | 16 | K/count2 |  |
| DC/DC Converter Temperature Coefficient 3 | 1437 | 1440 | i | 4 | 1 | 20 | K/count3 |  |
| IF Amplifier Channel 13 Temperature Coefficient 0 | 1441 | 1444 | i | 4 | 1 | 4 | K |  |
| IF Amplifier Channel 13 Temperature Coefficient 1 | 1445 | 1448 | i | 4 | 1 | 9 | K/count |  |
| IF Amplifier Channel 13 Temperature Coefficient 2 | 1449 | 1452 | i | 4 | 1 | 16 | K/count2 |  |
| IF Amplifier Channel 13 Temperature Coefficient 3 | 1453 | 1456 | i | 4 | 1 | 20 | K/count3 |  |
| IF Amplifier Channel 14 Temperature Coefficient 0 | 1457 | 1460 | i | 4 | 1 | 4 | K |  |
| IF Amplifier Channel 14 Temperature Coefficient 1 | 1461 | 1464 | i | 4 | 1 | 9 | K/count |  |
| IF Amplifier Channel 14 Temperature Coefficient 2 | 1465 | 1468 | i | 4 | 1 | 16 | K/count2 |  |
| IF Amplifier Channel 14 Temperature Coefficient 3 | 1469 | 1472 | i | 4 | 1 | 20 | K/count3 |  |
| IF Amplifier Channel 12 Temperature Coefficient 0 | 1473 | 1476 | i | 4 | 1 | 4 | K |  |
| IF Amplifier Channel 12 Temperature Coefficient 1 | 1477 | 1480 | i | 4 | 1 | 9 | K/count |  |
| IF Amplifier Channel 12 Temperature Coefficient 2 | 1481 | 1484 | i | 4 | 1 | 16 | K/count2 |  |
| IF Amplifier Channel 12 Temperature Coefficient 3 | 1485 | 1488 | i | 4 | 1 | 20 | K/count3 |  |
| RF Shelf A1-1 Temperature Coefficient 0 | 1489 | 1492 | i | 4 | 1 | 4 | K |  |
| RF Shelf A1-1 Temperature Coefficient 1 | 1493 | 1496 | i | 4 | 1 | 9 | K/count |  |
| RF Shelf A1-1 Temperature Coefficient 2 | 1497 | 1500 | i | 4 | 1 | 16 | K/count2 |  |
| RF Shelf A1-1 Temperature Coefficient 3 | 1501 | 1504 | i | 4 | 1 | 20 | K/count3 |  |
| RF Shelf A1-2 Temperature Coefficient 0 | 1505 | 1508 | i | 4 | 1 | 4 | K |  |
| RF Shelf A1-2 Temperature Coefficient 1 | 1509 | 1512 | i | 4 | 1 | 9 | K/count |  |
| RF Shelf A1-2 Temperature Coefficient 2 | 1513 | 1516 | i | 4 | 1 | 16 | K/count2 |  |
| RF Shelf A1-2 Temperature Coefficient 3 | 1517 | 1520 | i | 4 | 1 | 20 | K/count3 |  |
| Detector/preamp Assembly Temperature Coefficient 0 | 1521 | 1524 | i | 4 | 1 | 4 | K |  |
| Detector/preamp Assembly Temperature Coefficient 1 | 1525 | 1528 | i | 4 | 1 | 9 | K/count |  |
| Detector/preamp Assembly Temperature Coefficient 2 | 1529 | 1532 | i | 4 | 1 | 16 | K/count2 |  |
| Detector/preamp Assembly Temperature Coefficient 3 | 1533 | 1536 | i | 4 | 1 | 20 | K/count3 |  |
| A1-1 Warm Load 1 Temperature Coefficient 0 | 1537 | 1540 | i | 4 | 1 | 4 | K |  |
| A1-1 Warm Load 1 Temperature Coefficient 1 | 1541 | 1544 | i | 4 | 1 | 9 | K/count |  |
| A1-1 Warm Load 1 Temperature Coefficient 2 | 1545 | 1548 | i | 4 | 1 | 16 | K/count2 |  |
| A1-1 Warm Load 1 Temperature Coefficient 3 | 1549 | 1552 | i | 4 | 1 | 20 | K/count3 |  |
| A1-1 Warm Load 2 Temperature Coefficient 0 | 1553 | 1556 | i | 4 | 1 | 4 | K |  |
| A1-1 Warm Load 2 Temperature Coefficient 1 | 1557 | 1560 | i | 4 | 1 | 9 | K/count |  |
| A1-1 Warm Load 2 Temperature Coefficient 2 | 1561 | 1564 | i | 4 | 1 | 16 | K/count2 |  |
| A1-1 Warm Load 2 Temperature Coefficient 3 | 1565 | 1568 | i | 4 | 1 | 20 | K/count3 |  |
| A1-1 Warm Load 3 Temperature Coefficient 0 | 1569 | 1572 | i | 4 | 1 | 4 | K |  |
| A1-1 Warm Load 3 Temperature Coefficient 1 | 1573 | 1576 | i | 4 | 1 | 9 | K/count |  |
| A1-1 Warm Load 3 Temperature Coefficient 2 | 1577 | 1580 | i | 4 | 1 | 16 | K/count2 |  |
| A1-1 Warm Load 3 Temperature Coefficient 3 | 1581 | 1584 | i | 4 | 1 | 20 | K/count3 |  |
| A1-1 Warm Load 4 Temperature Coefficient 0 | 1585 | 1588 | i | 4 | 1 | 4 | K |  |
| A1-1 Warm Load 4 Temperature Coefficient 1 | 1589 | 1592 | i | 4 | 1 | 9 | K/count |  |
| A1-1 Warm Load 4 Temperature Coefficient 2 | 1593 | 1596 | i | 4 | 1 | 16 | K/count2 |  |
| A1-1 Warm Load 4 Temperature Coefficient 3 | 1597 | 1600 | i | 4 | 1 | 20 | K/count3 |  |
| A1-1 Warm Load Center Temperature Coefficient 0 | 1601 | 1604 | i | 4 | 1 | 4 | K |  |
| A1-1 Warm Load Center Temperature Coefficient 1 | 1605 | 1608 | i | 4 | 1 | 9 | K/count |  |
| A1-1 Warm Load Center Temperature Coefficient 2 | 1609 | 1612 | i | 4 | 1 | 16 | K/count2 |  |
| A1-1 Warm Load Center Temperature Coefficient 3 | 1613 | 1616 | i | 4 | 1 | 20 | K/count3 |  |
| A1-2 Warm Load 1 Temperature Coefficient 0 | 1617 | 1620 | i | 4 | 1 | 4 | K |  |
| A1-2 Warm Load 1 Temperature Coefficient 1 | 1621 | 1624 | i | 4 | 1 | 9 | K/count |  |
| A1-2 Warm Load 1 Temperature Coefficient 2 | 1625 | 1628 | i | 4 | 1 | 16 | K/count2 |  |
| A1-2 Warm Load 1 Temperature Coefficient 3 | 1629 | 1632 | i | 4 | 1 | 20 | K/count3 |  |
| A1-2 Warm Load 2 Temperature Coefficient 0 | 1633 | 1636 | i | 4 | 1 | 4 | K |  |
| A1-2 Warm Load 2 Temperature Coefficient 1 | 1637 | 1640 | i | 4 | 1 | 9 | K/count |  |
| A1-2 Warm Load 2 Temperature Coefficient 2 | 1641 | 1644 | i | 4 | 1 | 16 | K/count2 |  |
| A1-2 Warm Load 2 Temperature Coefficient 3 | 1645 | 1648 | i | 4 | 1 | 20 | K/count3 |  |
| A1-2 Warm Load 3 Temperature Coefficient 0 | 1649 | 1652 | i | 4 | 1 | 4 | K |  |
| A1-2 Warm Load 3 Temperature Coefficient 1 | 1653 | 1656 | i | 4 | 1 | 9 | K/count |  |
| A1-2 Warm Load 3 Temperature Coefficient 2 | 1657 | 1660 | i | 4 | 1 | 16 | K/count2 |  |
| A1-2 Warm Load 3 Temperature Coefficient 3 | 1661 | 1664 | i | 4 | 1 | 20 | K/count3 |  |
| A1-2 Warm Load 4 Temperature Coefficient 0 | 1665 | 1668 | i | 4 | 1 | 4 | K |  |
| A1-2 Warm Load 4 Temperature Coefficient 1 | 1669 | 1672 | i | 4 | 1 | 9 | K/count |  |
| A1-2 Warm Load 4 Temperature Coefficient 2 | 1673 | 1676 | i | 4 | 1 | 16 | K/count2 |  |
| A1-2 Warm Load 4 Temperature Coefficient 3 | 1677 | 1680 | i | 4 | 1 | 20 | K/count3 |  |
| A1-2 Warm Load Center Temperature Coefficient 0 | 1681 | 1684 | i | 4 | 1 | 4 | K |  |
| A1-2 Warm Load Center Temperature Coefficient 1 | 1685 | 1688 | i | 4 | 1 | 9 | K/count |  |
| A1-2 Warm Load Center Temperature Coefficient 2 | 1689 | 1692 | i | 4 | 1 | 16 | K/count2 |  |
| A1-2 Warm Load Center Temperature Coefficient 3 | 1693 | 1696 | i | 4 | 1 | 20 | K/count3 |  |
| <Zero Fill> | 1697 | 1700 | i | 4 | 1 | 0 |  |  |
| **AMSU-A1 ANALOG TELEMETRY CONVERSION (from volts to physical quantities)** | | | | | | | | |
| Note: 0.02V\*(analog value) = x volt, where x is the number of volts corresponding to the analog value. | | | | | | | | |
| A1-1 Scan Motor Temp Intercept | 1701 | 1704 | i | 4 | 1 | 3 | K |  |
| A1-1 Scan Motor Temp Slope | 1705 | 1708 | i | 4 | 1 | 3 | K/volt |  |
| A1-2 Scan Motor Temp Intercept | 1709 | 1712 | i | 4 | 1 | 3 | K |  |
| A1-2 Scan Motor Temp Slope | 1713 | 1716 | i | 4 | 1 | 3 | K/volt |  |
| A1-1 RF Shelf Temp Intercept | 1717 | 1720 | i | 4 | 1 | 3 | K |  |
| A1-1 RF Shelf Temp Slope | 1721 | 1724 | i | 4 | 1 | 3 | K/volt |  |
| A1-2 RF Shelf Temp Intercept | 1725 | 1728 | i | 4 | 1 | 3 | K |  |
| A1-2 RF Shelf Temp Slope | 1729 | 1732 | i | 4 | 1 | 3 | K/volt |  |
| A1-1 Warm Load Temp Intercept | 1733 | 1736 | i | 4 | 1 | 3 | K |  |
| A1-1 Warm Load Temp Slope | 1737 | 1740 | i | 4 | 1 | 3 | K/volt |  |
| A1-2 Warm Load Temp Intercept | 1741 | 1744 | i | 4 | 1 | 3 | K |  |
| A1-2 Warm Load Temp Slope | 1745 | 1748 | i | 4 | 1 | 3 | K/volt |  |
| A1-1 Antenna Motor Current Intercept | 1749 | 1752 | i | 4 | 1 | 3 | milliamps |  |
| A1-1 Antenna Motor Current Slope | 1753 | 1756 | i | 4 | 1 | 3 | milliamps/volt |  |
| A1-2 Antenna Motor Current Intercept | 1757 | 1760 | i | 4 | 1 | 3 | milliamps |  |
| A1-2 Antenna Motor Current Slope | 1761 | 1764 | i | 4 | 1 | 3 | milliamps/volt |  |
| -15v Signal Processing Intercept | 1765 | 1768 | i | 4 | 1 | 3 | volts |  |
| -15v Signal Processing Slope | 1769 | 1772 | i | 4 | 1 | 3 |  |  |
| -15v Antenna Drive Intercept | 1773 | 1776 | i | 4 | 1 | 3 | volts |  |
| -15v Antenna Drive Slope | 1777 | 1780 | i | 4 | 1 | 3 |  |  |
| -15v Signal Processing Intercept | 1781 | 1784 | i | 4 | 1 | 3 | volts |  |
| -15v Signal Processing Slope | 1785 | 1788 | i | 4 | 1 | 3 |  |  |
| -15v Antenna Drive Intercept | 1789 | 1792 | i | 4 | 1 | 3 | volts |  |
| -15v Antenna Drive Slope | 1793 | 1796 | i | 4 | 1 | 3 |  |  |
| -8v Receiver Amps Intercept | 1797 | 1800 | i | 4 | 1 | 3 | volts |  |
| -8v Receiver Amps Slope | 1801 | 1804 | i | 4 | 1 | 3 |  |  |
| -5v Signal Processing Intercept | 1805 | 1808 | i | 4 | 1 | 3 | volts |  |
| -5v Signal Processing Slope | 1809 | 1812 | i | 4 | 1 | 3 |  |  |
| -5v Antenna Drive Intercept | 1813 | 1816 | i | 4 | 1 | 3 | volts |  |
| -5v Antenna Drive Slope | 1817 | 1820 | i | 4 | 1 | 3 |  |  |
| +8.5v Phase Lock Loop Ch 9/14 Intercept | 1821 | 1824 | i | 4 | 1 | 3 | volts |  |
| +8.5v Phase Lock Loop Ch 9/14 Slope | 1825 | 1828 | i | 4 | 1 | 3 |  |  |
| +15v Phase Lock Loop Ch 9/14 Intercept | 1829 | 1832 | i | 4 | 1 | 3 | volts |  |
| +15v Phase Lock Loop Ch 9/14 Slope | 1833 | 1836 | i | 4 | 1 | 3 |  |  |
| -15v Phase Lock Loop Ch 9/14 Intercept | 1837 | 1840 | i | 4 | 1 | 3 | volts |  |
| -15v Phase Lock Loop Ch 9/14 Slope | 1841 | 1844 | i | 4 | 1 | 3 |  |  |
| GDO Voltage 50.3 GHz Ch 3 Intercept | 1845 | 1848 | i | 4 | 1 | 3 | volts |  |
| GDO Voltage 50.3 GHz Ch 3 Slope | 1849 | 1852 | i | 4 | 1 | 3 |  |  |
| GDO Voltage 52.8 GHz Ch 4 Intercept | 1853 | 1856 | i | 4 | 1 | 3 | volts |  |
| GDO Voltage 52.8 GHz Ch 4 Slope | 1857 | 1860 | i | 4 | 1 | 3 |  |  |
| GDO Voltage 53.596 GHz Ch 5 Intercept | 1861 | 1864 | i | 4 | 1 | 3 | volts |  |
| GDO Voltage 53.596 GHz Ch 5 Slope | 1865 | 1868 | i | 4 | 1 | 3 |  |  |
| GDO Voltage 54.4 GHz Ch 6 Intercept | 1869 | 1872 | i | 4 | 1 | 3 | volts |  |
| GDO Voltage 54.4 GHz Ch 6 Slope | 1873 | 1876 | i | 4 | 1 | 3 |  |  |
| GDO Voltage 54.94 GHz Ch 7 Intercept | 1877 | 1880 | i | 4 | 1 | 3 | volts |  |
| GDO Voltage 54.94 GHz Ch 7 Slope | 1881 | 1884 | i | 4 | 1 | 3 |  |  |
| GDO Voltage 55.5 GHz Ch 8 Intercept | 1885 | 1888 | i | 4 | 1 | 3 | volts |  |
| GDO Voltage 55.5 GHz Ch 8 Slope | 1889 | 1892 | i | 4 | 1 | 3 |  |  |
| PLLO Primary Lock Detect Intercept | 1893 | 1896 | i | 4 | 1 | 3 | volts |  |
| PLLO Primary Lock Detect Slope | 1897 | 1900 | i | 4 | 1 | 3 |  |  |
| PLLO Redundant Lock Detect Intercept | 1901 | 1904 | i | 4 | 1 | 3 | volts |  |
| PLLO Redundant Lock Detect Slope | 1905 | 1908 | i | 4 | 1 | 3 |  |  |
| GDO Voltage 89.0 GHz Ch 15 Intercept | 1909 | 1912 | i | 4 | 1 | 3 | volts |  |
| GDO Voltage 89.0 GHz Ch 15 Slope | 1913 | 1916 | i | 4 | 1 | 3 |  |  |
| <Zero Fill> | 1917 | 1920 | i | 4 | 1 | 0 |  |  |
| **AMSU-A2 DIGITAL A CONVERSION** | | | | | | | | |
| Scan Motor Temp. Conv. Coeff 0 | 1921 | 1924 | i | 4 | 1 | 4 | K |  |
| Scan Motor Temp. Conv. Coeff 1 | 1925 | 1928 | i | 4 | 1 | 9 | K/count |  |
| Scan Motor Temp. Conv. Coeff 2 | 1929 | 1932 | i | 4 | 1 | 16 | K/count2 |  |
| Scan Motor Temp. Conv. Coeff 3 | 1933 | 1936 | i | 4 | 1 | 20 | K/count3 |  |
| Feed Horn Temp. Conv. Coeff 0 | 1937 | 1940 | i | 4 | 1 | 4 | K |  |
| Feed Horn Temp. Conv. Coeff 1 | 1941 | 1944 | i | 4 | 1 | 9 | K/count |  |
| Feed Horn Temp. Conv. Coeff 2 | 1945 | 1948 | i | 4 | 1 | 16 | K/count2 |  |
| Feed Horn Temp. Conv. Coeff 3 | 1949 | 1952 | i | 4 | 1 | 20 | K/count3 |  |
| RF Mux Temp. Conv. Coeff 0 | 1953 | 1956 | i | 4 | 1 | 4 | K |  |
| RF Mux Temp. Conv. Coeff 1 | 1957 | 1960 | i | 4 | 1 | 9 | K/count |  |
| RF Mux Temp. Conv. Coeff 2 | 1961 | 1964 | i | 4 | 1 | 16 | K/count2 |  |
| RF Mux Temp. Conv. Coeff 3 | 1965 | 1968 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 1 Temp. Conv. Coeff 0 | 1969 | 1972 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 1 Temp. Conv. Coeff 1 | 1973 | 1976 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 1 Temp. Conv. Coeff 2 | 1977 | 1980 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 1 Temp. Conv. Coeff 3 | 1981 | 1984 | i | 4 | 1 | 20 | K/count3 |  |
| Mixer/IF Amplifier Channel 2 Temp. Conv. Coeff 0 | 1985 | 1988 | i | 4 | 1 | 4 | K |  |
| Mixer/IF Amplifier Channel 2 Temp. Conv. Coeff 1 | 1989 | 1992 | i | 4 | 1 | 9 | K/count |  |
| Mixer/IF Amplifier Channel 2 Temp. Conv. Coeff 2 | 1993 | 1996 | i | 4 | 1 | 16 | K/count2 |  |
| Mixer/IF Amplifier Channel 2 Temp. Conv. Coeff 3 | 1997 | 2000 | i | 4 | 1 | 20 | K/count3 |  |
| Local Oscillator Channel 1 Temp. Conv. Coeff 0 | 2001 | 2004 | i | 4 | 1 | 4 | K |  |
| Local Oscillator Channel 1 Temp. Conv. Coeff 1 | 2005 | 2008 | i | 4 | 1 | 9 | K/count |  |
| Local Oscillator Channel 1 Temp. Conv. Coeff 2 | 2009 | 2012 | i | 4 | 1 | 16 | K/count2 |  |
| Local Oscillator Channel 1 Temp. Conv. Coeff 3 | 2013 | 2016 | i | 4 | 1 | 20 | K/count3 |  |
| Local Oscillator Channel 2 Temp. Conv. Coeff 0 | 2017 | 2020 | i | 4 | 1 | 4 | K |  |
| Local Oscillator Channel 2 Temp. Conv. Coeff 1 | 2021 | 2024 | i | 4 | 1 | 9 | K/count |  |
| Local Oscillator Channel 2 Temp. Conv. Coeff 2 | 2025 | 2028 | i | 4 | 1 | 16 | K/count2 |  |
| Local Oscillator Channel 2 Temp. Conv. Coeff 3 | 2029 | 2032 | i | 4 | 1 | 20 | K/count3 |  |
| Compensation Motor Temp. Conv. Coeff 0 | 2033 | 2036 | i | 4 | 1 | 4 | K |  |
| Compensation Motor Temp. Conv. Coeff 1 | 2037 | 2040 | i | 4 | 1 | 9 | K/count |  |
| Compensation Motor Temp. Conv. Coeff 2 | 2041 | 2044 | i | 4 | 1 | 16 | K/count2 |  |
| Compensation Motor Temp. Conv. Coeff 3 | 2045 | 2048 | i | 4 | 1 | 20 | K/count3 |  |
| Subreflector Temp. Conv. Coeff 0 | 2049 | 2052 | i | 4 | 1 | 4 | K |  |
| Subreflector Temp. Conv. Coeff 1 | 2053 | 2056 | i | 4 | 1 | 9 | K/count |  |
| Subreflector Temp. Conv. Coeff 2 | 2057 | 2060 | i | 4 | 1 | 16 | K/count2 |  |
| Subreflector Temp. Conv. Coeff 3 | 2061 | 2064 | i | 4 | 1 | 20 | K/count3 |  |
| DC/DC Converter Temp. Conv. Coeff 0 | 2065 | 2068 | i | 4 | 1 | 4 | K |  |
| DC/DC Converter Temp. Conv. Coeff 1 | 2069 | 2072 | i | 4 | 1 | 9 | K/count |  |
| DC/DC Converter Temp. Conv. Coeff 2 | 2073 | 2076 | i | 4 | 1 | 16 | K/count2 |  |
| DC/DC Converter Temp. Conv. Coeff 3 | 2077 | 2080 | i | 4 | 1 | 20 | K/count3 |  |
| RF Shelf Temp. Conv. Coeff 0 | 2081 | 2084 | i | 4 | 1 | 4 | K |  |
| RF Shelf Temp. Conv. Coeff 1 | 2085 | 2088 | i | 4 | 1 | 9 | K/count |  |
| RF Shelf Temp. Conv. Coeff 2 | 2089 | 2092 | i | 4 | 1 | 16 | K/count2 |  |
| RF Shelf Temp. Conv. Coeff 3 | 2093 | 2096 | i | 4 | 1 | 20 | K/count3 |  |
| Detector/preamp Assembly Temp. Conv. Coeff 0 | 2097 | 2100 | i | 4 | 1 | 4 | K |  |
| Detector/preamp Assembly Temp. Conv. Coeff 1 | 2101 | 2104 | i | 4 | 1 | 9 | K/count |  |
| Detector/preamp Assembly Temp. Conv. Coeff 2 | 2105 | 2108 | i | 4 | 1 | 16 | K/count2 |  |
| Detector/preamp Assembly Temp. Conv. Coeff 3 | 2109 | 2112 | i | 4 | 1 | 20 | K/count3 |  |
| Warm Load Center Temp. Conv. Coeff 0 | 2113 | 2116 | i | 4 | 1 | 4 | K |  |
| Warm Load Center Temp. Conv. Coeff 1 | 2117 | 2120 | i | 4 | 1 | 9 | K/count |  |
| Warm Load Center Temp. Conv. Coeff 2 | 2121 | 2124 | i | 4 | 1 | 16 | K/count2 |  |
| Warm Load Center Temp. Conv. Coeff 3 | 2125 | 2128 | i | 4 | 1 | 20 | K/count3 |  |
| Warm Load 1 Temp. Conv. Coeff 0 | 2129 | 2132 | i | 4 | 1 | 4 | K |  |
| Warm Load 1 Temp. Conv. Coeff 1 | 2133 | 2136 | i | 4 | 1 | 9 | K/count |  |
| Warm Load 1 Temp. Conv. Coeff 2 | 2137 | 2140 | i | 4 | 1 | 16 | K/count2 |  |
| Warm Load 1 Temp. Conv. Coeff 3 | 2141 | 2144 | i | 4 | 1 | 20 | K/count3 |  |
| Warm Load 2 Temp. Conv. Coeff 0 | 2145 | 2148 | i | 4 | 1 | 4 | K |  |
| Warm Load 2 Temp. Conv. Coeff 1 | 2149 | 2152 | i | 4 | 1 | 9 | K/count |  |
| Warm Load 2 Temp. Conv. Coeff 2 | 2153 | 2156 | i | 4 | 1 | 16 | K/count2 |  |
| Warm Load 2 Temp. Conv. Coeff 3 | 2157 | 2160 | i | 4 | 1 | 20 | K/count3 |  |
| Warm Load 3 Temp. Conv. Coeff 0 | 2161 | 2164 | i | 4 | 1 | 4 | K |  |
| Warm Load 3 Temp. Conv. Coeff 1 | 2165 | 2168 | i | 4 | 1 | 9 | K/count |  |
| Warm Load 3 Temp. Conv. Coeff 2 | 2169 | 2172 | i | 4 | 1 | 16 | K/count2 |  |
| Warm Load 3 Temp. Conv. Coeff 3 | 2173 | 2176 | i | 4 | 1 | 20 | K/count3 |  |
| Warm Load 4 Temp. Conv. Coeff 0 | 2177 | 2180 | i | 4 | 1 | 4 | K |  |
| Warm Load 4 Temp. Conv. Coeff 1 | 2181 | 2184 | i | 4 | 1 | 9 | K/count |  |
| Warm Load 4 Temp. Conv. Coeff 2 | 2185 | 2188 | i | 4 | 1 | 16 | K/count2 |  |
| Warm Load 4 Temp. Conv. Coeff 3 | 2189 | 2192 | i | 4 | 1 | 20 | K/count3 |  |
| Warm Load 5 Temp. Conv. Coeff 0 | 2193 | 2196 | i | 4 | 1 | 4 | K |  |
| Warm Load 5 Temp. Conv. Coeff 1 | 2197 | 2200 | i | 4 | 1 | 9 | K/count |  |
| Warm Load 5 Temp. Conv. Coeff 2 | 2201 | 2204 | i | 4 | 1 | 16 | K/count2 |  |
| Warm Load 5 Temp. Conv. Coeff 3 | 2205 | 2208 | i | 4 | 1 | 20 | K/count3 |  |
| Warm Load 6 Temp. Conv. Coeff 0 | 2209 | 2212 | i | 4 | 1 | 4 | K |  |
| Warm Load 6 Temp. Conv. Coeff 1 | 2213 | 2216 | i | 4 | 1 | 9 | K/count |  |
| Warm Load 6 Temp. Conv. Coeff 2 | 2217 | 2220 | i | 4 | 1 | 16 | K/count2 |  |
| Warm Load 6 Temp. Conv. Coeff 3 | 2221 | 2224 | i | 4 | 1 | 20 | K/count3 |  |
| <Zero Fill> | 2225 | 2228 | i | 4 | 1 | 0 |  |  |
| **AMSU-A2 ANALOG TELEMETRY CONVERSION (from volt to physical quantities)** | | | | | | | | |
| Note: 0.02V\*(analog value) = x volt, where x is the number of volts corresponding to the analog value. | | | | | | | | |
| A2 Scan Motor Temp Intercept | 2229 | 2232 | i | 4 | 1 | 3 | K |  |
| A2 Scan Motor Temp Slope | 2233 | 2236 | i | 4 | 1 | 3 | K/volt |  |
| Compensator Motor Temp Intercept | 2237 | 2240 | i | 4 | 1 | 3 | K |  |
| Compensator Motor Temp Slope | 2241 | 2244 | i | 4 | 1 | 3 | K/volt |  |
| RF Shelf Temp Intercept | 2245 | 2248 | i | 4 | 1 | 3 | K |  |
| RF Shelf Temp Slope | 2249 | 2252 | i | 4 | 1 | 3 | K/volt |  |
| Warm Load Temp Intercept | 2253 | 2256 | i | 4 | 1 | 3 | K |  |
| Warm Load Temp Slope | 2257 | 2260 | i | 4 | 1 | 3 | K/volt |  |
| Compensator Motor Current Intercept | 2261 | 2264 | i | 4 | 1 | 3 | milliamps |  |
| Compensator Motor Current Slope | 2265 | 2268 | i | 4 | 1 | 3 | milliamps/volt |  |
| Antenna Motor Current Intercept | 2269 | 2272 | i | 4 | 1 | 3 | milliamps |  |
| Antenna Motor Current Slope | 2273 | 2276 | i | 4 | 1 | 3 | milliamps/volt |  |
| -15v Signal Processing Intercept | 2277 | 2280 | i | 4 | 1 | 3 | volts |  |
| -15v Signal Processing Slope | 2281 | 2284 | i | 4 | 1 | 3 |  |  |
| -15v Antenna Drive Intercept | 2285 | 2288 | i | 4 | 1 | 3 | volts |  |
| -15v Antenna Drive Slope | 2289 | 2292 | i | 4 | 1 | 3 |  |  |
| -15v Signal Processing Intercept | 2293 | 2296 | i | 4 | 1 | 3 | volts |  |
| -15v Signal Processing Slope | 2297 | 2300 | i | 4 | 1 | 3 |  |  |
| -15v Antenna Drive Intercept | 2301 | 2304 | i | 4 | 1 | 3 | volts |  |
| -15v Antenna Drive Slope | 2305 | 2308 | i | 4 | 1 | 3 |  |  |
| -8v Receiver Amps Intercept | 2309 | 2312 | i | 4 | 1 | 3 | volts |  |
| -8v Receiver Amps Slope | 2313 | 2316 | i | 4 | 1 | 3 |  |  |
| -5v Signal Processing Intercept | 2317 | 2320 | i | 4 | 1 | 3 | volts |  |
| -5v Signal Processing Slope | 2321 | 2324 | i | 4 | 1 | 3 |  |  |
| -5v Antenna Drive Intercept | 2325 | 2328 | i | 4 | 1 | 3 | volts |  |
| -5v Antenna Drive Slope | 2329 | 2332 | i | 4 | 1 | 3 |  |  |
| GDO Voltage 23.8 GHz Ch 1 Intercept | 2333 | 2336 | i | 4 | 1 | 3 | volts |  |
| GDO Voltage 23.8 GHz Ch 1 Slope | 2337 | 2340 | i | 4 | 1 | 3 |  |  |
| GDO Voltage 31.4 GHz Ch 2 Intercept | 2341 | 2344 | i | 4 | 1 | 3 | volts |  |
| GDO Voltage 31.4 GHz Ch 2 Slope | 2345 | 2348 | i | 4 | 1 | 3 |  |  |
| **FILLER** | | | | | | | | |
| <Zero Fill> | 2349 | 2560 | i | 4 | 53 | 0 |  |  |

[*Amended June 19, 2002*](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/amendmnt.htm#a061902a)

[*Amended November 26, 2002*](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/amendmnt.htm#a112602a)

[*Amended January 13, 2005*](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/amendmnt.htm#a011305a)

[*Amended April 12, 2005*](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/amendmnt.htm#a041205a)

[*Amended May 4, 2005*](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/amendmnt.htm#a050405a)

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| [***Previous Section***](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/html/c8/sec8316-2.htm) | [***Top of Page***](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/html/c8/sec83162-1.htm#top) | [***Next Section***](http://www.ncdc.noaa.gov/oa/pod-guide/ncdc/docs/klm/html/c8/sec83162-2.htm) |

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