

WAAS REFERENCE RECEIVER – THIRD GENERATION (WAAS G-III) MANUAL ADDENDUM – SAMPLE ASCII LOGS

D17839 23 JANUARY 2013

CONTRACT # DTFAWA-09-C-00045

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REVISION HISTORY

REV	ECO#	EFFECT DATE	DESCRIPTION

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1 SCOPE

This document contains ASCII representations of a sample of every log type output by the WAAS G-III receiver. Refer to [EICD] for the specification of the binary format of each log. The ASCII format is that generated by using wg3convert.exe version 1.00V39 to convert the binary logs output natively by the receiver.

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2 REFERENCES

2.1 Referenced Documents

Table 2-1: Reference Documents

Document Number	CDRL Number	Document ID	Document Title	Revision Number
D12994			WAAS G-III List of Acronyms and Definitions	BM
D14799		[EICD]	WAAS G-III – External Interface Control Document (EICD)	EM

2.2 Acronyms and Definitions

Refer to D12994 – WAAS G-III List of Acronyms and Definitions for an explanation of acronyms and definition of terms used in this and other WAAS G-III documentation.

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3 SAMPLE ASCII LOGS

3.1 WAAS G-III Logs

3.1.1 AGCINFOB

@AGCINFOA,3,COARSE,700,325629.000,0,0,0;4,00008a83,00000000,415,1000,0.057923,0.127564,0.
227863,0.259208,0.196641,0.130800,1083277.00,0.020,-683,0,0,00008a93,00000000,345,1000,0.
040536,0.112558,0.216250,0.274144,0.210812,0.145700,1126383.00,0.011,-975,0,0,00008804,00
000000,500,1000,0.057846,0.127795,0.229254,0.257601,0.196082,0.131422,1116542.00,0.020,-6
75,0,0,00008aa4,00000000,378,1000,0.075613,0.145261,0.238823,0.252250,0.177546,0.110507,6
410439.00,0.013,-326,0,0*bbce55d1

3.1.2 ALMANACB

@ALMANACA,4,COARSE,700,325629.000,0,0,0;GPS,3,5,32,1,188,503808.0,1.564026e-03,-7.7946103 9e-09,7.88122702e-01,4.59058731e-01,2.98609059e-01,2.95639038e-04,0.00000000,1.45855743e-20215e-01,-2.6834964e+00,1.2550131e+00,4.15802002e-04,0.00000000,1.45865402e-04,2.6558960 e+07, -3.72709395e-03, 1, 0, 0, 1, 3, 188, 503808.0, 1.595640e-02, -8.03462039e-09, -3.98168757e-01, -3.08168757e-01, -3.08168759e-01, -3.0816875-01, -3.0816870-01, -3.0816870-01, -3.0816870-01,1.2653735 e + 00, 1.4146954 e + 00, 1.59263611 e - 04, 3.63797881 e - 12, 1.45858230 e - 04, 2.6559831 e + 07, -80, 1.40, 1.828e-03,1,0,0,1,5,188,503808.0,3.074646e-03,-8.11462372e-09,1.8340100e+00,3.18304384e-01,,0,1,6,188,503808.0,7.653713e-03,-7.92032991e-09,-3.19660474e-01,-3.90052441e-01,-2.97874 84e+00,3.74794006e-04,-1.09139364e-11,1.45856820e-04,2.6560002e+07,-2.04331035e-03,1,0,0, 1,7,188,503808.0,6.054401e-03,-7.87461372e-09,-2.3346203e+00,-2.9219630e+00,-1.45522945e-8,503808.0,1.270342e-02,-7.71460706e-09,-2.2460370e+00,-2.8836251e+00,-7.23927329e-01,3.884629e+00,-7.23927329e-01,3.884629e+00,-7.23927329e-01,3.884629e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.2392739e+00,-7.239299+00,-7.239299+00,-7.239299+00,-7.239299+00,-7.239299+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23929+00,-7.23949+00,-7.20949+00,-7.20949+00,-7.20949+00,-7.20949+00,-7.20949+00,-7.20949+1469727e-06,0.00000000,1.45863039e-04,2.6559247e+07,5.58345038e-02,1,0,0,1,9,188,503808.0 , 1.706934e - 02, -7.77175230e - 09, -2.3586524e + 00, 1.6368141e + 00, -2.21974435e - 01, 2.15530396e - 04, -2.21974435e - 01, -2.21974456e - 01, -2.21974456e - 01, -2.21974456e - 01, -2.21974456e - 01, -2.219746e - 01, -2.21976e - 01, -2.21976e - 01, -2.21976e - 01, -2.21976e - 01,,0.00000000,1.45929478e-04,2.6551185e+07,4.20346689e-02,1,0,0,1,10,188,503808.0,1.228619e 06277 e-09, 5.00236528 e-01, 1.1410042 e+00, 5.94687200 e-02, -3.46183777 e-04, 0.00000000, 1.4585871 e-02, -3.46183777 e-04, 0.00000000, -1.4585871 e-02, -3.46183777 e-04, 0.000000000, -1.4585871 e-02, -3.46183777 e-04, -3.46183777 e-04, -3.461871 e-02, -27e-04,2.6559770e+07,-5.35814696e-02,1,0,0,1,12,188,503808.0,4.223824e-03,-8.03462039e-09 $.6559443 \\ e+07, \\ 3.99733822 \\ e-02, \\ 2,0,0,1,13,188,503808.0,4.934311 \\ e-03,-7.41745182 \\ e-09,2.980910 \\ e-03,-7.41745182 \\ e-04,2.980910 \\ e-04,2.9800 \\ e-04,2.98000 \\ e-04,$ 0e+00, 2.0674477e+00, 2.3082089e+00, 1.49726868e-04, 0.00000000, 1.45866605e-04, 2.6558814e+07,4.07883095e-02,1,0,0,1,14,188,503808.0,6.700039e-03,-7.47459706e-09,2.9525385e+00,-2.0185 625e+00,2.4470544e+00,2.19345093e-04,0.00000000,1.45855038e-04,2.6560218e+07,3.34899165e-26204e+00,-1.05857849e-04,0.00000000,1.45855660e-04,2.6560143e+07,1.13850137e-04,2,0,0,1, 16,188,503808.0,6.866455e-03,-8.02319134e-09,-1.2579755e+00,2.87924748e-02,-2.6508207e+00 ,-2.51770020e-04,0.00000000,1.45866688e-04,2.6558804e+07,4.07164041e-02,1,0,0,1,17,188,50 3808.0,8.061886e-03,-7.62317468e-09,-2.19743497e-01,-2.2509794e+00,2.6107364e+00,5.531311 04e-05,0.00000000,1.45847576e-04,2.6561124e+07,2.24883980e-02,2,0,0,1,18,188,503808.0,1.3 68570e-02, -8.33177562e-09, 1.8391879e+00, -2.1300589e+00, -2.1599071e+00, 2.35557556e-04, 0.0072e-09,1.7856031e+00,1.2827832e+00,-1.5749987e+00,8.10623169e-05,0.00000000,1.45847742e-0 4,2.6561104e+07,-1.42851961e-02,1,0,0,1,21,188,503808.0,1.972294e-02,-8.09176563e-09,7.90 0, -2.0322751e + 00, -2.8074339e + 00, 1.56402588e - 04, 0.00000000, 1.45861174e - 04, 2.6559473e + 07, -1 $.72033549 {e} - 02, 1, 0, 0, 1, 23, 188, 503808.0, 8.162022 {e} - 03, -7.69174896 {e} - 09, 2.8960782 {e} + 00, -2.91739$ 29e+00,1.4922236e+00,1.20162964e-04,-3.63797881e-12,1.45850436e-04,2.6560777e+07,1.501623 38e-02,1,0,0,1,24,188,503808.0,5.722046e-04,-8.01176229e-09,-2.3611035e+00,-3.12825721e-0 3,9.24244772e-01,0.00000000,0.00000000,1.45855286e-04,2.6560188e+07,1.69576782e-02,3,0,0,

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3.1.3 CARDSTATUSB

@CARDSTATUSA,6,COARSE,700,325630.000,0,0,0;OPERATIONAL,NORMAL,0,3022,0,7,IOMASTER,7,0,97.7,29.0,4.948,3.316,2.489,0.000,1.796,1.490,1.188,1.060,0.742,00000000,00000000,DSPC,2,0,78.0,30.0,4.977,3.307,2.488,2.484,1.797,1.487,1.192,1.055,0.741,00000000,00000000,DSPC,2,192,4,29.0,4.975,3.329,2.491,2.482,1.786,1.484,1.189,1.054,0.742,00000000,0000000,RFCC,490,0.0,27.1,5.030,3.309,2.512,1.542,3.000,1.495,0.155,1.619e-03,8.936,00000000,00000000,RFCC,490,0.0,2.5,2.493,2.481,2.491,2.495,2.491,2.490,2.482,2.487,2.494,00000000,00000000,RFCC,4,0,0.0,3.3,3.287,2.489,0.000,0.00

3.1.4 CORRDATAB

@CORRDATAA,5,COARSE,700,325630.000,0,0,0;106,19,0,0,1000,13,6110614,-19145,-58417,-533, -1185215, 5875, -73133, 2524, -77567, 3867, -78253, 1306, -45533, -4297, 29771, 3547, 86512, 7655, 8026, -4297,3, -101, 79562, -114, 937695, -32412, 275166, -8777, 19, 1, 18, 1, 1000, 13, 2071133, -43675, -19681, -5467,-106904,1059,-99178,1300,-92330,33296,-59056,14784,-32008,39123,19428,29350,52220,17196 85448,-23153,-89470,-161,-1908978,-3337,-122154,4799,-121471,812,-128839,-3965,-54626,-33 09,51297,12331,137782,16166,131136,-3340,122365,-2308,1470026,-30084,440365,-15713,3,1,20 ,5,1000,13,3267343,6261,-42363,-6699,-180134,1599,-188677,2474,-159316,8951,-83840,19887, -26207,19623,28892,19657,99471,13288,146382,487,186094,10122,96626,8250,83436,-3074,3,3,3 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 21, 0, 3, 6, 1000, 13, 12658807, -28164, -110155, -2369, -2360823, 19966, -150766, -120166, -11192,-154778,1798,-159400,3528,-73328,3922,63006,11505,160943,11569,159087,3991,147939,-2 56,1804892,-39203,536368,-12966,21,1,21,7,1000,13,5730416,4184,-70879,-7582,-309307,-5404 ,-311166,3407,-271420,10087,-159605,25736,-54140,9013,54866,21605,170157,3714,254099,-529 8,330250,-6349,168504,-13531,144049,-3304,21,3,39,80,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 2526,-44047,-138925,-3168,-2891635,13685,-186035,-1254,-188210,1839,-194510,387,-90246,-5 731,81973,14570,199931,16544,196953,7571,178730,4421,2233790,-63372,679899,-20251,22,1,22 ,9,1000,13,5650559,80779,-66931,998,-297025,-8582,-335466,4474,-266453,7832,-164858,5526, -81096,47907,61366,24933,162364,44845,244805,38488,322792,30797,172473,-3199,136885,-1315 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,6,0,5,10,1000,13,12276133,-116381,-113147,2177,-2416915,28422 ,-155035,3227,-160084,5450,-162188,3356,-76888,-499,59551,17696,172677,16306,168680,6324, 147475, -1434, 1855216, -52389, 567399, -19703, 6, 1, 23, 11, 1000, 13, 4414605, 16031, -62327, -973, -24

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5226, -4164, -259513, 16647, -190499, 14923, -128929, 10701, -29367, 29354, 42023, 22396, 110780, 2578 7,184928,12937,225727,16769,127859,13221,114228,7391,6,3,41,84,0,13,0,0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,3,42,86,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 3,2346418,3293,-20173,1325,-485703,19529,-27220,732,-32189,447,-29862,323,-13682,1979,118 41,5084,36083,11412,32761,2186,29358,2491,374390,5724,102803,-3783,8,1,25,15,1000,13,2692 71,-13473,-1686,-6957,2907,-10279,-28689,21215,-27579,5196,2695,4795,-9259,7135,4574,7391 ,7595,-6567,5290,15084,16456,11737,8582,7757,-6318,-7003,8,3,43,88,0,13,0,0,0,0,0,0,0,0,0 1000,13,6358010,-9562,-59870,878,-1243533,22210,-77061,-3498,-79419,3225,-85500,423,-3567 5,-974,29328,5745,87150,6713,84064,675,76058,-740,970355,-23051,295015,-13461,9,1,26,17,1 000,13,1744438,-114408,-16044,-1949,-95782,6174,-85562,-4249,-76569,-11150,-51611,-4945,-36306,12924,14902,11690,50121,-4538,84898,-13313,88680,-7448,52698,-10839,61571,-1051,9,3 ,0,0,0,0,0,0,0,0,0,0,0,0,0,0,13,6475058,-46832,-57961,-250,-1182396,6897,-75530,46 3,-81480,3219,-78214,278,-38605,-1289,32164,-2768,90023,2402,84004,808,71814,-756,924571, -9024, 292418, -2845, 24, 1, 27, 19, 1000, 13, 1725049, -119519, -27236, 2300, -96435, 1937, -92587, 19580, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 19580, 19580, 19580, 1958, 19580, 19580, 19580, 19580, 19580, 19580, 19580, 19580, 19580, 19580, 19580, 19,-87331,17941,-63857,-3427,-29822,2943,17032,1699,41260,-11509,69796,-147,104018,763,4902 6,10635,44370,-8443,24,3,45,92,1000,13,2923045,2228,-60098,2667,-1261928,11179,-77254,-43 93,-83693,9731,-81981,-1342,-37310,-2938,29933,7589,88323,8048,88822,-384,77781,1277,9405 4,4,89,101,1000,13,19371394,-76933,-280115,-2360,-1088396,-13528,-1128224,-29104,-907238, -25589,-601130,-17081,-201842,15791,210558,25922,612202,50757,935678,38147,1154016,52956, 629749,16912,494469,10594,14,0,10,20,1000,13,4978841,7994,-44304,1400,-996677,7930,-63660 ,-1721,-62218,-2001,-64286,2669,-28177,504,23791,12473,67253,7961,60486,2911,56241,5303,7 50437,-24197,235164,-5164,14,1,28,21,1000,13,731418,85724,-11633,-3842,-34691,-1112,-2965 1,7074,-19921,1863,-28603,-10857,-7488,340,-2805,1230,2290,15958,37571,6620,44364,4922,18 85,-1151132,-21097,-69338,2183,-71397,-442,-81240,-1344,-39864,2589,33898,10699,84075,643 1,82428,2608,68634,2311,883853,-13056,275448,-1215,26,1,29,23,1000,13,1299612,93264,-1499 9,10637,-65517,5660,-77521,-7742,-64605,-16899,-53606,-5442,-2871,-14211,34586,6024,41520 28,1000,13,12624818,3705,-112596,-2270,-2316547,12213,-146476,-2407,-152655,-800,-157970, -7184,-74997,-6963,67197,6617,166688,12610,162071,8814,148641,5470,1815528,-45916,553139, -9949,15,1,32,29,1000,13,5733988,30473,-78654,1299,-299389,-4152,-332190,-10574,-239743,-24002, -176361, -17430, -49498, 18469, 59575, 10419, 186891, 10272, 252251, -18553, 316223, -4189, 177 655, -9461, 133553, -9995, 15, 3, 50, 102, 1000, 13, 4162104, -16294, -75430, 197, -1818317, 9413, -11677 5,-1105,-124772,-1969,-116574,-3120,-43390,-9680,52811,-2949,106958,-4953,110666,-10167,1 ,0,15,30,1000,13,6975303,-34536,-64236,167,-1392950,457,-89153,3556,-93063,672,-95589,-16 98,-40273,4396,36717,7797,97760,14056,85570,-420,88922,6389,1047408,-37677,318391,-642,16 ,1,33,31,1000,13,1681706,-16462,-23241,1119,-89328,-8638,-90865,7959,-67113,7640,-43427,6 45,-17335,24980,16196,6467,45008,11390,92839,-1060,88173,8485,47617,-370,36501,-4294,16,3

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2,3798,-100606,-120,-99055,-2092,-42737,-3677,41477,12879,108306,17889,99459,6691,90229,2 673,1174670,-8901,358503,-1727,29,1,34,33,1000,13,1559237,-51954,-29414,735,-96968,921,-9 2072,-4195,-60862,-9372,-51416,-17033,-19217,-3015,27997,-2360,45365,-2086,74946,-3715,83 809,-3638,46684,1801,37503,-9449,29,3,52,106,1000,13,1747279,-12642,-36360,-2840,-749667, -19854, -44532, -205, -54278, 871, -50418, -2251, -23839, -6543, 13370, 2394, 43673, -3824, 51561, -2688,0,17,34,1000,13,14565021,-43805,-143884,-2512,-2888217,32431,-183887,-4997,-188324,3883 ,-192168,1067,-87226,-2863,80343,14650,199966,20573,186660,9461,175968,-3127,2201170,-315 18,676372,-10317,18,1,35,35,1000,13,7517148,28221,-101881,-428,-407895,-10229,-419573,35573,-327503,62048,-217300,45041,-72196,75981,89630,99748,226757,90315,316568,68100,413888, 26226,-82540,-2390,-1808504,-24473,-109876,3083,-118831,-1831,-111159,-667,-53198,3869,48 657,15995,110463,12925,116219,5050,110658,-4356,1363515,-37892,422138,-9164,65535,5,55,11 6,-1841,-1368699,-28188,-1423352,-26898,-1142853,6615,-747233,54037,-261625,62376,252051, 99572,747221,81647,1120758,96577,1419201,47005,764051,12876,601955,-5724,65535,6,99,111,0

3.1.5 CORRLOCATIONB

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843751,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0 9980469,-0.20019531,-0.09960938,0.000000000,0.09960938,0.20019531,0.29980469,0.40039063,0. 45019531,0.48925781,11,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0. 02500000, 0.00000000, 0.02500000, 0.05156250, 0.07656250, 0.10156250, 0.4000001, 0.49062499, 29, 9960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,47,13,-0.50937498,-0.49062 499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07 656250,0.10156250,0.40000001,0.49062499,73,13,-0.50000000,-0.44843751,-0.39843750,-0.3484 3749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0.34687501,0.39843750,0.448 43751,0.50000000,91,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.099 60938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,12,13, 0000, 0.05156250, 0.07656250, 0.10156250, 0.40000001, 0.49062499, 30, 13, -0.51074219, -0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.0000000,0.09960938,0.20019531,0.29980 469,0.40039063,0.45019531,0.48925781,48,13,-0.50937498,-0.49062499,-0.10156250,-0.0765625 0, -0.05156250, -0.02500000, 0.00000000, 0.02500000, 0.05156250, 0.07656250, 0.10156250, 0.40000001, 0.49062499, 74, 13, -0.50000000, -0.44843751, -0.39843750, -0.34843749, -0.10156250, -0.05156250,0.00000000,0.05156250,0.10156250,0.34687501,0.39843750,0.44843751,0.50000000,92,13,-0. 51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.0996093 8,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,13,13,-0.50937498,-0.49062499,-0 0.20019531, -0.09960938, 0.00000000, 0.09960938, 0.20019531, 0.29980469, 0.40039063, 0.45019531,0.48925781, 49, 13, -0.50937498, -0.49062499, -0.10156250, -0.07656250, -0.05156250, -0.02500000,40039063,0.45019531,0.48925781,14,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.0 5156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.4 9062499,32,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.0 0000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,50,13,-0.509374 98,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05 156250, 0.07656250, 0.10156250, 0.40000001, 0.49062499, 76, 13, -0.50000000, -0.44843751, -0.39843 43750,0.44843751,0.50000000,94,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.2001 9531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.4892 5781,15,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.0000 0000, 0.02500000, 0.05156250, 0.07656250, 0.10156250, 0.4000001, 0.49062499, 33, 13, -0.51074219, -0.48925781, -0.40039063, -0.29980469, -0.20019531, -0.09960938, 0.00000000, 0.09960938, 0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,51,13,-0.50937498,-0.49062499,-0.10156250 ,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.101562 50,0.40000001,0.49062499,77,13,-0.50000000,-0.44843751,-0.39843750,-0.34843749,-0.1015625 0, 0.09960938, 0.20019531, 0.29980469, 0.40039063, 0.45019531, 0.48925781, 16, 13, -0.50937498, -0.5093749, -0.509749, -0.509740, -0.509740, -0.509740, -0.509740, -0.509740, -0.509740, -0.509740.29980469,-0.20019531,-0.09960938,0.000000000,0.09960938,0.20019531,0.29980469,0.40039063, 0.45019531, 0.48925781, 52, 13, -0.50937498, -0.49062499, -0.10156250, -0.07656250, -0.0515600, -0.0515600, -0.05156000, -0.051560000, -0.05156000, -0.0515600000, -0.05156000, -0.05156000, -0.05156000, -0.05156000, -0.051560.05156250, 0.10156250, 0.34687501, 0.39843750, 0.44843751, 0.50000000, 96, 13, -0.51074219, -0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0. 29980469, 0.40039063, 0.45019531, 0.48925781, 17, 13, -0.50937498, -0.49062499, -0.10156250, -0.07 656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.4 9960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,53,1 3,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02 500000, 0.05156250, 0.07656250, 0.10156250, 0.40000001, 0.49062499, 79, 13, -0.50000000, -0.448437 51,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0.346 87501,0.39843750,0.44843751,0.50000000,97,13,-0.51074219,-0.48925781,-0.40039063,-0.29980 469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.4501

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9531,0.48925781,54,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.0250 0000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,55,13,-000, 0.05156250, 0.07656250, 0.10156250, 0.40000001, 0.49062499, 56, 13, -0.50937498, -0.49062499,50, 0.10156250, 0.40000001, 0.49062499, 57, 13, -0.50937498, -0.49062499, -0.10156250, -0.076600, -0.0766000, -0.0766000, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.076600, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.07660000, -0.07660000, -0.07660000, -0.07660000000, -0.07660000, -0.07660000, -0.07660000000000, -0.07660000000000000000000000000001,0.49062499,58,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.0250000 0,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,59,13,-0.5 10156250, -0.07656250, -0.05156250, -0.02500000, 0.00000000, 0.02500000, 0.05156250, 0.07656250, 0.10156250, 0.40000001, 0.49062499, 61, 13, -0.50937498, -0.49062499, -0.10156250, -0.07666250, -0.0766600, -0.07666000, -0.07666000, -0.07666000, -0.07666000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000, -0.0766000.000000000, 0.09960938, 0.20019531, 0.29980469, 0.40039063, 0.45019531, 0.48925781, 99, 13, -0.51079, 0.29980469, 0.40039063, 0.45019531, 0.489257814219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0. 20019531,0.29980469,0.40039063,0.45019531,0.48925781,100,13,-0.51074219,-0.48925781,-0.40 039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0. 40039063, 0.45019531, 0.48925781, 101, 13, -0.51074219, -0.48925781, -0.40039063, -0.29980469, -0. 20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0. .000000000, 0.09960938, 0.20019531, 0.29980469, 0.40039063, 0.45019531, 0.48925781, 103, 13, -0.510,74219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0 .20019531, 0.29980469, 0.40039063, 0.45019531, 0.48925781, 104, 13, -0.51074219, -0.48925781,0039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0 .48925781*07c77354

3.1.6 ETHSTATUSB

@ETHSTATUSA,8,COARSE,700,325631.000,0,0,0;2,0,"00:21:66:00:20:A3",0,100MBPS_FULL_DUPLEX,1
,"00:21:66:00:20:A4",0,Not Connected*1da96433

3.1.7 EXCEPTIONDATAB

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3.1.8 FACTORYDATAB

000000*57cc9216

3.1.9 MEASUREMENTDATAB

@MEASUREMENTDATAA,9,COARSE,700,325632.000,0,0;106,19,0,0,0,00000000,24976775.640,0.492,3156752.029,0.006,2986.248,44.928,425.000,30.000,1002.000,00001109,19,0,18,1,00004701,249 76776.287,0.497,2324765.588,0.005,2326.948,43.042,305.000,2.000,949.000,00001109,19,0,36,74,00000303,0.000,0.000,0.000,0.000,2330.319,0.000,0.000,0.000,0.000,00000001,19,0,62,56,0000502,0.000,0.000,0.000,0.000,2991.660,0.000,0.000,0.000,0.000,0000001,19,0,80,92,000 04104,0.000,0

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3.1.10 RAWFRAMEDATAB

3.1.11 RXCOMMANDSB

@RXCOMMANDSA,44,COARSE,700,325640.000,0,0,0;80,"AGCMODE L1 AUTO","AGCMODE L2 AUTO", "AGCMODE L5 AUTO", "ANTENNAPOWER OFF", "ASSIGN 18 ACTIVE 135 0 500", "ASSIGN 26 ACTIVE 135 0 500", "CHANCONFIG 18GPSALL8GEO", "CORRSPACING L1GEO 18 0.1", "CORRSPACING L1GEO 19 0.1", "CORRSPACING L1GEO 20 0.1", "CORRSPACING L1GEO 21 0.1", "CORRSPACING L1GEO 22 0.1", "CORRSPACING L1GEO 23 0.1", "CORRSPACING L1GEO 24 0.1", "CORRSPACING L1GEO 25 0.1", "DLLBW L1CA 0.200000", "DLLBW L1GEO 0.200000", "DLLBW L1C 0.200000", "DLLBW L2C 0.200000", "DLLBW L2PY 0.200000", "DLLBW L5GPS 0.200000", "DLLBW L5GEO 0.200000", "ECUTOFF 0.000000", "ETHCONFIG ETHA 100 FULL MDI", "ETHCONFIG ETHB AUTO AUTO", "FIX POSITION 51.000000 -114.000000 1000.000000","IPCONFIG ETHB STATIC 0.0.0.0 0.0.0.0 0.0.0.0", "IPCONFIG ETHA STATIC 192.168.0.10 255.255.255.0 0.0.0.0", "ICOMCONFIG ICOM1 UDP 0.0.0.3000 ETHA", "ICOMCONFIG ICOM2 DISABLED", "LOG ICOM2 CARDSTATUSB ONTIME 1", "LOG ICOM2 FACTORYDATAB ONTIME 1","LOG ICOM2 MEASUREMENTDATAB ONTIME 1","LOG ICOM2 AGCINFOB ONTIME 1", "LOG ICOM2 RAWFRAMEDATAB ONNEW", "LOG ICOM2 VERSIONB ONTIME 500", "LOG ICOM2 RXCOMMANDSB ONTIME 600","LOG ICOM2 ETHSTATUSB ONTIME 500","PLLDYNAMIC L1CA FALSE 3.000000 0.000000 0 0.000000 0","PLLDYNAMIC L1C FALSE 3.000000 0.000000 0 0.000000 0","PLLDYNAMIC L2C FALSE 3.000000 0.000000 0 0.000000 0","PLLDYNAMIC L5GPS FALSE 3.000000 0.000000 0 0.000000 0", "PLLDYNAMIC L2PY FALSE 0.200000 0.000000 0 0.000000

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0","PLLDYNAMIC L1GEO FALSE 3.000000 0.000000 0 0.000000 0","PLLDYNAMIC L5GEO FALSE 3.000000 0.000000 0 0.000000 0","PULSEBLANKING L1 95 2","PULSEBLANKING L2 95 2","PULSEBLANKING L5 95 2","RFATTEN 0","RFIFTEMP ON","TRACKMODE STANDARD GPS","TRACKTYPE L5GEO 26 15","TRACKTYPE L5GEO 27 15","TRACKTYPE L5GEO 28 15","TRACKTYPE L5GEO 29 15","TRACKTYPE L5GEO 31 15","TRACKTYPE L5GEO 32 15","TRACKTYPE L5GEO 31 15","TRACKTYPE L5GEO 32 15","TRACKTYPE L5GEO 33 15","TRACKTYPE L5GEO 31 15","TRACKTYPE L5GEO 32 15","TRACKTYPE L5GEO 36 20 10","THRESHOLD L1CA 36 20 36","THRESHOLD L1C 36 20 10","THRESHOLD L1CA 36 20 36","THRESHOLD L1GEO 36 26 36 18","THRESHOLD L1GEO 36 26 36 20","THRESHOLD L1GEO 36 26 36 21","THRESHOLD L1GEO 36 26 36 22","THRESHOLD L1GEO 36 26 36 23","THRESHOLD L1GEO 36 26 36 24","THRESHOLD L1GEO 36 26 36 26","THRESHOLD L5GEO 36 26 36 27","THRESHOLD L5GEO 36 26 36 28","THRESHOLD L5GEO 36 26 36 29","THRESHOLD L5GEO 36 26 36 30","THRESHOLD L5GEO 36 26 36 38","THRESHOLD L5GEO 36 26 36 30","THRESHOLD L5GEO 36 26 36 38","THRESHOLD L5GEO 36 26 36 30","THRESHOLD L5GEO 36 26 36 38","THRESHOLD L5GEO 36 26 36 30","THRESHOLD L5GEO 36 26 36 38","THRESHOLD L5GEO 36 26 36 30","THRESHOLD L5GEO 36 26 36 38","THRESHOLD L5GEO 36 26 36 30","THRESHOLD L5GEO 36 26 36 38","THRESHOLD L5GEO 36 26 36 32","THRESHOLD L5GEO 36 26 36 38","THRESHOLD L5GEO 36 26 36 32","THRESHOLD L5GEO 36 26 36 38","THRESHOLD L5GEO 36 26 36 38",

3.1.12 SATPOSB

@SATPOSA,43,COARSE,700,325640.000,0,0,0;GPS,TRUE,TRUE,31,1,0,2,0,0,-100.0,-1000.0,0.000,0 ,-100.0,-1000.0,2847.088,2,0,2,0,0,-100.0,-1000.0,0.000,0,-1000.0,-1000.0,-2822.353,3,0,0,0,0,33.5,-59.8,1382.208,0,33.5,-59.8,1382.384,4,0,2,0,0,-100.0,-1000.0,0.000,0,-100.00.0, -1079.495, 5, 0, 2, 0, 0, -100.0, -1000.0, 0.000, 0, -100.0, -1000.0, -3432.458, 6, 0, 0, 0, 0, 45.9, -100.0,78.7, 438.803, 0, 45.9, -78.7, 438.596, 7, 0, 2, 0, 0, -100.0, -1000.0, 0.000, 0, -100.0, -1000.0, -2727.204, 8, 0, 0, 0, 0, 0, 2.1, 1.4, -1423.128, 0, 2.1, 1.4, -1423.147, 9, 0, 0, 0, 0, 13.8, 84.4, 2546.249, 0, 13.8, 1.4,2545.938,10,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-2173.745,11,0,2,0,0,-100.0,-1000.0, 0.000, 0, -100.0, -1000.0, 3601.566, 12, 0, 2, 0, 0, -100.0, -1000.0, 0.000, 0, -100.0, -10301.656,13,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-1813.386,14,0,0,0,0,5.2,-169.0, 3818.083,0,5.2,-169.0,3818.247,15,0,0,0,0,43.9,67.3,-1483.764,0,43.9,67.3,-1484.293,16,0, 0,0,0,11.6,-95.8,-2697.203,0,11.6,-95.8,-2696.985,17,0,2,0,0,-100.0,-1000.0,0.000,0,-100. 0, -1000.0, 1283.169, 18, 0, 0, 0, 0, 80.5, -123.4, 589.687, 0, 80.5, -123.4, 589.100, 19, 0, 0, 0, 0, 17.8, -1000.00, 1000.00,41.9,2986.734,0,17.9,-41.9,2986.594,20,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,1897 .625, 21, 0, 0, 0, 0, 71.4, 121.3, -729.952, 0, 71.4, 121.3, -729.777, 22, 0, 0, 0, 0, 41.6, -114.8, 2496.661,0,41.6,-114.8,2496.103,23,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-346.556,24,0,0, 0, 0, 6.9, 111.8, 2992.095, 0, 6.9, 111.8, 2992.493, 25, 0, 2, 0, 0, -100.0, -1000.0, 0.000, 0, -100.0, -1000.0, -1089.387, 26, 0, 0, 0, 0, 15.4, 37.3, -3443.856, 0, 15.4, 37.3, -3444.229, 28, 0, 2, 0, 0, -100.0, 0.000, 0, -100.0, -1000.0, 2623.899, 29, 0, 0, 0, 0, 5.1, 164.8, -3893.871, 0, 5.1, 164.8, -3893.914,30,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-3262.582,31,0,2,0,0,-100.0,-1000.0,0.00 $0, 0, -100.0, -1000.0, 227.352, 32, 0, 2, 0, 0, -100.0, -1000.0, 0.000, 0, -100.0, -1000.0, 2877.044 \times 238a$

3.1.13 TIMESOLUTIONB

@TIMESOLUTIONA, 45, COARSE, 700, 325641.000, 0, 0, 0; NOT COMPUTED, 0, 0.000000000, 0.00000000, 0.00 229233.737,21228562.737,1,1,0,0,00000089,0.000,0.000000000,0.000,0.000,0.000,0.000,0.000, 2,2,3,0,00000002,1072233.125,47605.222656250,2.473,3.878,-16416070.959,2352003.997,202877 94.590,3,3,21,0,00000002,1082468.875,-82828.093750000,1.556,2.266,-2586861.363,-19658836. 698,17947610.483,4,4,22,0,00000002,1081827.750,46904.023437500,2.138,3.227,-21236360.602, -10920689.098, 11949046.469, 5, 5, 6, 0, 00000002, 1076001.250, 113246.484375000, 1.996, 2.984, -18276321.945,-4548938.120,18950251.371,6,6,0,0,00000089,0.000,0.000000000,0.000,0.000,0.000, 0.000, 0.000, 7, 7, 8, 0, 00000041, 1066725.625, 1272.240844727, 4.839, 37.149, 6754548.835, 1364421314828574.034, 10851051.498, 9, 9, 24, 0, 00000041, 1086841.750, 46.336467743, 4.349, 16.753, 15753824.723, -21316218.547, 1461785.306, 10, 10, 14, 0, 00000041, 1091747.375, 65913.328125000, 4.512, 21. 101, -14398040.072, -20513849.640, -8810369.406, 11, 11, 26, 0, 00000002, 1071234.750, -38315.242187500,3.606,7.988,15124895.388,-59533.442,21247092.592,12,12,0,0,00000089,0.000,0.00000000 0, 0.000, 0.000, 0.000, 0.000, 0.000, 13, 13, 0, 0, 00000089, 0.000, 0.00000000, 0.0000, 0.000, 14, 14, 15, 0, 00000002, 1077773.375, -31798.189453125, 2.060, 3.091, 9570361.158, -13934236.310,20410519.937,15,15,16,0,00000002,1078278.500,-75542.867187500,3.917,10.418,-25686 662.871,1502779.915,7240781.841,16,16,29,0,00000041,1092742.875,120164.625000000,4.532,21 .759, -3847552.601, -24824941.453, -8633371.754, 17, 17, 18, 0, 00000002, 1080393.000, 70700.390625000,1.513,2.177,-10036706.009,-15562842.109,19540298.098,*2c422650

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3.1.14 SOFTLOADSTATUSB

@SOFTLOADSTATUSA,46,COARSE,700,325641.000,0,0;NOT_STARTED,"*b9a6bb98

3.1.15 VERSIONB

3.2 Legacy Logs

3.2.1 ALLSQMIB

#ALLSQMIA,NO PORTS,0,0.0,COARSE,700,325642.000,00000000,0000,0;106,19,0,13,3099987,321876 1,5722845,5877455,6042575,6204357,6283461,6212015,6047489,5883905,5734153,3840885,3271725 ,19,18,13,1265381,1302597,1553725,1769121,1909761,1983491,2042605,1977439,1838283,1670691 0,0,0,19,80,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,1,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,19,13,0,0,086,9630778,9528460,9257290,8999250,8769602,5905780,4988952,3,20,13,1869257,1951399,232615 3,2676953,2953933,3114163,3179545,3103027,2906071,2602753,2272837,2086729,1934993,3,38,13 0,0,0,21,3,13,6756048,6979082,11676630,11976944,12274186,12579876,12714426,12581422,12247 568,11922092,11634210,8030490,6922404,21,21,13,3313798,3485032,4126052,4781696,5309918,56 0,0,0,0,21,65,13,0,0,0,0,0,0,0,0,0,0,0,0,0,21,83,13,0,0,0,0,0,0,0,0,0,0,0,0,0,22,4,13,6451761,6727019,12518037,12881949,13253925,13657777,13836095,13682785,13281449,12880987,1253 1007,8080875,6720865,22,22,13,3397989,3534063,4161729,4770143,5286033,5635829,5747253,565 0307,5300177,4758925,4057497,3700223,3408839,22,40,13,0,0,0,0,0,0,0,0,0,0,0,0,0,2,66,13, 0,0,0,0,0,0,0,0,0,0,0,0,0,0,22,84,13,0,0,0,0,0,0,0,0,0,0,0,0,0,6,5,13,6142077,6373881,11218 733, 11521893, 11825887, 12156483, 12308303, 12175399, 11830263, 11492429, 11194825, 7412741, 626061, 119482577, 6, 23, 13, 2616992, 2734808, 3259170, 3758576, 4124938, 4418780, 4468834, 4359408, 4085220, 372137, 4124938, 4124988, 412498, 4124988, 4124888, 4124888, 4124888, 4124888, 4124888, 4124888, 4124888, 4124888, 4124888, 4124888, 4124888, 4124888, 418888, 418888, 418888, 418888, 418888, 418888, 418888, 418888, 418888, 418888, 418888, 4188888, 4188888, 4188888, 418888, 418888, 4188888, 4188888, 4188888, 4188888, 4188888, 4188888, 4188888, 48,3232688,2990014,2764770,6,41,13,0,0,0,0,0,0,0,0,0,0,0,0,6,67,13,0,0,0,0,0,0,0,0,0,0 ,0,0,6,85,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,6,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,24,13,0,0,0,0 ,2100276,2086966,2019046,1960130,1901882,1207958,1008346,8,25,13,142189,136865,160239,166 ,0,0,0,0,0,8,69,13,0,0,0,0,0,0,0,0,0,0,0,0,0,8,87,13,0,0,0,0,0,0,0,0,0,0,0,0,0,9,8,13,310 8565,3225395,5640261,5801249,5960591,6119665,6189925,6114977,5944325,5779977,5628607,3760 009,3189191,9,26,13,971746,1024836,1214522,1389324,1523580,1637314,1674240,1645422,153097 2,1375646,1204080,1099898,1018680,9,44,13,0,0,0,0,0,0,0,0,0,0,0,0,0,9,70,13,0,0,0,0,0,0 ,0,0,0,0,0,0,9,88,13,0,0,0,0,0,0,0,0,0,0,0,0,0,24,9,13,3663133,3778799,6274873,6425867,65 95157,6762767,6842877,6766387,6582901,6412225,6243741,4319695,3701355,24,27,13,1103994,11 46560,1354734,1537056,1706918,1781274,1816482,1768624,1686076,1524326,1290308,1178856,108 3960,24,45,13,-183087,-57441,2354049,2487913,2636801,2796413,2857631,2794563,2620695,2450 033,2288943,394491,183087,24,71,13,0,0,0,0,0,0,0,0,0,0,0,0,0,24,89,13,11483019,12038523,1 4296529,16638021,18476311,19738327,20173371,19729543,18501959,16604119,14247767,12991215, 11969007, 14, 10, 13, 2500443, 2599557, 4560433, 4689797, 4820033, 4953219, 5016555, 4962779, 4828007 ,4697473,4580699,3027429,2569035,14,28,13,354488,377564,495172,558628,604642,654656,69659 2,697140,644782,603890,532834,500864,490476,14,46,13,0,0,0,0,0,0,0,0,0,0,0,0,0,14,72,13,0 118,5423656,5562184,5720092,5776292,5720716,5558710,5417748,5277628,3526060,2986796,26,29 ,13,734511,769351,916947,1014403,1136025,1224433,1255161,1225763,1119569,993611,865539,78 7131,722603,26,47,13,0,0,0,0,0,0,0,0,0,0,0,0,0,26,73,13,0,0,0,0,0,0,0,0,0,0,0,0,0,26,91,1

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3.2.2 ALLSQMQB

#ALLSQMQA,NO PORTS,0,0.0,COARSE,700,325644.000,00000000,0000,0;106,19,0,13,12972,9766,-46 04, -2030, -4848, -4632, 4270, -5780, -7612, -14124, -9954, 74, 1632, 19, 18, 13, 124259, 108733, 107603, 105001,33465,-4701,-25685,-95673,-155021,-202329,-223059,-221187,-212439,19,36,13,0,0,0,0 , 0, 0, 0, 0, 0, 0, 0, -1, 63, 13, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -1, 81, 13, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, 2,13,40527,31253,30335,32919,34475,34089,33087,6937,-16045,-22113,-14531,14307,16033,3,20,1 3,72579,68989,73825,99035,51517,37361,50747,11269,-50531,-78975,-103659,-125833,-140063,33,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-140065,-0,0,0,0,0,0,21,3,13,17168,18686,15646,22828,24258,32096,15244,-11380,-34240,-47184,-50396 , 21536, 49820, 21, 21, 13, 119810, 116092, 112354, 103792, 72352, 61528, 55446, 26198, 15894, -26134, -26144, -26144, -26144, -26144, -26144, -26144, -26144, -26144, -26144, -26144, -26144, -26140686,120,-17506,21,39,13,0,0,0,0,0,0,0,0,0,0,0,0,0,1,65,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,21, 83,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,22,4,13,45477,50577,-11861,-1845,4835,24283,22937,-3179,-46555,-85515,-95209,-40409,-27615,22,22,13,282596,292116,319624,327886,271968,216210,1033 00,23378,-76736,-172622,-236142,-249994,-244194,22,40,13,0,0,0,0,0,0,0,0,0,0,0,0,0,22,66, 8,876,20654,24188,-9586,-49984,-62190,-65860,37522,64492,6,23,13,109026,108778,128208,140 114,132270,116286,81428,68702,-15468,-44652,-83520,-90890,-106732,6,41,13,0,0,0,0,0,0,0 ,0,0,0,0,0,6,67,13,0,0,0,0,0,0,0,0,0,0,0,0,0,6,85,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,6,13,0, 0,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,24,13,0,0,0,0,0,0,0,0,0,0,0,0,-1,42,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,68,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,86,13,0,0,0,0,0,0,0,0,0,0,0,0,0,8,7,13,99664,1 02950,46436,40768,41574,28746,22266,6424,2184,-1760,-9540,-34740,-52462,8,25,13,-18642,-1 0,0,0,0,0,0,0,0,8,69,13,0,0,0,0,0,0,0,0,0,0,0,0,0,8,87,13,0,0,0,0,0,0,0,0,0,0,0,0,9,8,1 3,21442,25538,-10698,-9466,-10044,-3410,-13772,-18446,-38580,-38746,-45654,22996,25574,9,26,13,-30451,-26153,-19199,-23263,-52833,-70501,-83665,-91645,-127149,-134479,-110099,-92 ,0,0,0,0,0,0,0,0,0,0,0,0,0,0,24,9,13,1216,672,23716,22986,26952,28484,39948,23516,10488,2386, -4448,50860,75838,24,27,13,108021,121011,122561,107019,88929,86157,86577,70761,24691,-468 1, -27693, -18389, -45685, 24, 45, 13, 41278, 39504, 1410, 4798, 3090, 2500, -2584, -26310, -48936, -5066

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8,-47862,-46772,-41278,24,71,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,24,89,13,-291041,-282953,-21681 9,-92763,8715,113045,152629,153899,99161,-8941,-79157,-138481,-156611,14,10,13,11396,8392 ,-5850,-3738,-334,13338,8422,1184,-16524,-21542,-17420,92914,122788,14,28,13,-32889,-2037 1,13111,14877,18433,17027,-9003,9039,31539,46103,29589,26819,33557,14,46,13,0,0,0,0,0,0,0 13,37109,31953,19767,22041,19711,22617,28239,20387,13673,12807,20811,84329,102507,26,29,1 3, -5353, -2417, 31361, 33215, 17947, 6045, -2471, -13705, -16323, -15289, 329, 4405, -1975, 26, 47, 13, 015,14,13,11873,5249,4237,3497,-8641,673,19873,26081,24587,30331,35539,105043,84397,15,32, 13,-10360,-10188,9526,30814,65876,92522,97716,92166,99738,86720,110232,139044,148506,15,5 0, 13, -35698, -46884, -40226, -36256, -31422, -22596, -11338, -7960, 19538, 37408, 54834, 47816, 35698, -11338, -11,15,76,13,0,0,0,0,0,0,0,0,0,0,0,0,0,15,94,13,0,0,0,0,0,0,0,0,0,0,0,0,0,16,15,13,28010,218 76,14760,17472,3588,5084,3484,-12030,-36416,-36432,-29700,25638,20388,16,33,13,118332,118 850,143484,139078,118974,112804,83100,66756,27104,22254,-22872,3040,-2124,16,51,13,0,0,0, 0,0,0,0,0,0,0,0,0,0,0,16,77,13,0,0,0,0,0,0,0,0,0,0,0,0,16,95,13,0,0,0,0,0,0,0,0,0,0,0,0,0 ,29,16,13,-889,1405,5751,6555,1053,5005,7703,-7571,-44463,-63315,-77797,-73891,-73683,29, 34,13,-24646,-30934,-3930,16116,26552,814,31130,17052,6418,14022,-1238,11582,17460,29,52, 13,-43601,-39471,-28973,-18899,-21983,-17875,-17543,-16553,-8477,917,6439,72861,43601,29, 78,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,29,96,13,0,0,0,0,0,0,0,0,0,0,0,0,0,18,17,13,32713,37843,3 1649,30115,29031,31345,35815,11927,-26497,-43455,-42317,43381,69587,18,35,13,577013,57857 1,572025,547101,462795,340751,193159,21693,-171115,-341333,-478035,-530777,-581075,18,53, 0,0,0,0,0,135,54,13,50464,45246,141842,143084,169506,175220,168584,136046,107846,103878,1 08816,143912,152516,-1,55,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,56,13,0,0,0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0,0,0,0,0,-1,60,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,61,13,0,0,0,0,0,0,0,0,0,0,0,0,0,13 5,98,13,395474,407214,499136,521844,481048,424152,299196,141936,-30694,-160860,-240298,-2 73678,-292968,-1,99,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,100,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,1 ,0,0,0,0,0,0,0,0,-1,104,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,105,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0*24 559c62

3.2.3 RANGEB

#RANGEA,NO PORTS,0,0.0,COARSE,700,325645.000,00000000,0000,0;29,19,0,24969394.224,0.182,3 195542.482,0.006,2981.525,45.2,1015.000,00101c04,19,0,24969395.123,1.102,2354991.901,0.00 6,2323.269,43.0,962.000,01301c0b,3,0,23170782.108,0.282,2091110.415,0.004,1371.575,48.7,1 211.000,00101c44,3,0,23170784.861,0.619,1563331.473,0.003,1068.765,42.9,1148.000,01301c4b ,21,0,21799240.626,0.481,-530184.238,0.003,-739.392,51.2,1033.000,00101c64,21,0,21799240. 953,0.305,-403225.170,0.002,-576.145,45.7,991.000,01301c6b,22,0,23075616.449,0.124,272735 8.171,0.003,2500.145,52.0,1031.000,00101c84,22,0,23075615.476,0.035,2038672.733,0.002,194 $8.166, 44.9, 991.000, 01301 \\cmtext{c8b}, 6, 0, 22736389.447, 0.232, 946057.685, 0.003, 427.132, 51.0, 1202.000$,00101ca4,6,0,22736391.594,0.030,705537.098,0.004,332.836,43.5,1153.000,01301cab,8,0,2663 6852.350,0.080,-1284527.069,0.023,-1424.267,35.7,1211.000,00101ce4,8,0,26636858.176,0.908 ,-977040.009,0.034,-1109.819,34.2,1147.000,01301ceb,9,0,25107151.491,0.102,3319870.685,0. 008,2551.583,45.1,1208.000,00101d04,9,0,25107155.949,0.627,2490062.869,0.008,1988.246,40. 7,1147.000,01301d0b,24,0,26098269.339,0.030,2976309.403,0.006,2996.793,46.0,977.000,00101 d24,24,0,26098276.448,0.417,2212578.743,0.007,2335.160,40.4,932.000,01301d2b,14,0,2622876 2.613,0.036,1470895.323,0.006,3818.963,43.1,386.000,00101d44,14,0,26228767.739,2.324,1022 623.482,0.020,2975.818,35.4,344.000,01301d4b,26,0,24778830.442,0.071,-3289079.697,0.009,-3441.785,44.3,1028.000,00101d64,26,0,24778833.641,0.360,-2481119.787,0.008,-2681.905,38.8 ,992.000,01301d6b,15,0,22798329.537,0.011,-1305820.432,0.004,-1478.792,51.3,1209.000,0010 1dc4,15,0,22798331.417,0.052,-995088.194,0.002,-1152.300,45.5,1148.000,01301dcb,16,0,2586 5295.016,0.299,-2978845.709,0.007,-2704.922,46.1,1207.000,00101de4,16,0,25865297.510,0.02 6,-2255249.469,0.008,-2107.726,39.5,1151.000,01301deb,29,0,26200507.932,0.204,-3978577.19 9,0.005,-3894.610,46.6,1025.000,00101e04,29,0,26200513.167,0.057,-2948017.274,0.010,-3034 .758,37.2,974.000,01301e0b,18,0,21630284.192,0.133,991074.996,0.003,591.579,52.5,1208.000 ,00101e24,18,0,21630284.471,0.119,741511.596,0.004,460.974,47.0,1151.000,01301e2b,135,0,3 9782650.195,0.164,2890.438,0.006,2.430,48.3,1212.000,80021e44*1b6d1c32

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3.2.4 RAWGPSSUBFRAMEWPB

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3.2.5 RAWWAASFRAMEWPB

NovAtel Inc. Calgary, Alberta	TITLE: WAAS G-III Sample ASCII Logs		
Proprietary Data	DOCUMENT NO.: D17839	PAGE: 24 of 24	REV: