

The following data are collected from the nas at the following location: </nas/data/irsol/2015>

The following data shows the headers of the measurements and their various values. The values of the headers, which change for practically every measurement, are not shown. All measurements are fits or z3bd files.

Number of measurements that have a specific header  
values of the header

Number of measurement parsed: 8919

HEADERS:

'PIGLOWIN': [6529, {1, 2}],  
'AANGLE': [3599, {0.0, 35.199559727967895, 143.6538866467286}],  
'CA\_TYPE': [3361, {'', 'IMAGING', 'SPECTROGRAPH'}],  
'M\_ID': [5087, {'lot of different values'}],  
'M\_TYPE': [5087, {'FPSCAN', 'SCIENCE', 'CALIBRATION', 'FPCALIBRATE',  
'DARKFRAME', 'CALIBRATION', 'SCIENCE', 'FPSCAN', 'DARKFRAME', 'FLATFIELD',  
'FPCALIBRATE'}],  
'SPEORDER': [6138, {0}],  
'M\_MSL': [5087, {1, 2, 50}],  
'SPEMODE': [6138, {2}],  
'CCD\_NAME': [6612, {'CCD55-30-1-349', 'CCD55-30-1-349'}],  
'WLENGTH': [6608, {0.0, 5890, 4227, 5158, 5355, 5868, 5875, 5140, 6173, 4607}],  
'IANGLE': [4367, {0.0, 26.87977930056144, 5.025328820295996, 28.14715178504703,  
20.90861225435835, 20.62870917973951, 21.94271645195599, 22.56530664195769,  
24.61409360881618, 25.31295318824658, 26.26351452433195, 28.15176467050602,  
25.33541598238054}],  
'MCOMMENT': [6530, {'', '{'}],  
'PIGGUIDE': [6529, {1, 2}],  
'SPEENCOD': [6138, {'lot of different values'}],  
'RSLIN': [4376, {0, 10}],  
'DESCRIPT': [6530, {'', '{'}],  
'STOKES': [6612, {'IQUV', 'I I', 'IQUV IQUV IQUV IQUV IQUV IQUV', 'IQV IUUV', 'IQUV',  
'IQV', 'IQV', 'IQUV', 'IQUV IQUV', 'IQV', 'IQV IQV IQV IQV', 'I', 'IUUV'}],  
'DATE': [8863, {'lot of different values'}],  
'CAM\_TC': [6612, {'lot of different values'}],  
'SPEALPHA': [6138, {'lot of different values'}],  
'PIGY': [6529, {'lot of different values'}],  
'PIGX': [6529, {'lot of different values'}],  
'CAM\_VER': [6612, {'lot of different values'}],  
'OBJECT': [6530, {'', '{'}],  
'PIGSOLRT': [6529, {0, 1, 2}],  
'M\_NAME': [5087, {'lot of different values'}],  
'MOD\_POS': [5087, {0, 90, 45.0, -90}],  
'M\_SSL': [5087, {1, 2, 4, 6}],  
'M\_STATUS': [5087, {1}],

'IMG\_W': [5169, [1240, 400]],  
 'MODULATO': [6612, {'DFLC', {'DFLC'}, 'PEM', {'PEM'}}],  
 'IMG\_T': [7495, [0, 160, 192, 132, 168, 172, 156, 180, 188]],  
 'PIGPOS': [6529, [0, 1, 2, 3, 4]],  
 'WAITLOWI': [6523, [0]],  
 'CCD\_ID': [6612, {'03262-21-09', {'03262-21-09'}}],  
 'IMG\_L': [7495, [0, 610, 580, 620, 625, 635]],  
 'SPEGRWL': [6138, {'lot of different values'}],  
 'OBSERVER': [6530, {'', 'DG', 'me', {'DG'}, 'mb', {'me'}}],  
 'SLIN': [4376, [0, -90, 135, 45, -45, 90, 60]],  
 'IMG\_H': [5169, [560, 280, 284, 272]],  
 'CAM\_IT': [6612, [0.55, 0.8, 0.6, 0.3, 0.2, 0.4, 1, 0.5, 0.9, 0.75, 2.0, 1.5, 5.0, 0.125, 0.25, 10, 0.18, 4, 0.05, 0.11, 1.6, 2.1, 0.7, 0.45, 1.2, 0.12, 0.03, 0.1, 0.15, 0.13, 0.025, 0.018, 0.02, 0.14, 0.06, 0.08, 0.015, 0.013, 0.82, 0.65, 0.009, 0.01, 0.24]],  
 'CAM\_REV': [6612, {'C.0', {'C.0'}}],  
 'INSTRUME': [6612, {'ZIMPOL3', {'ZIMPOL3'}}],  
 'TELESCOP': [6612, [{'Gregory IRSOL'}, 'IRSOL Gregory', 'Gregory IRSOL']],  
 'CAM\_NAME': [6612, [{'CAM2'}, 'CAM2']],  
 'CA\_DFFN': [3361, ['', 'dark01200\_m3', 'dark00100\_m1', 'dark00300\_m6', 'dark00300\_m5', 'dark00800\_m3', 'dark00300\_m2', 'dark00300\_m3', 'dark00200\_m5', 'dark00200\_m3', 'dark01000\_m4', 'dark05000\_m1', '','', 'dark01200\_m2', 'dark00800\_m2', 'dark01000\_m7', 'dark00100\_m5', 'dark00100\_m8', 'dark00300\_m1', 'dark01000\_m2', 'dark01000\_m5', 'dark00200\_m1', 'dark01000\_m3', 'dark00100\_m4', 'dark01000\_m6', 'dark01500\_m2', 'dark00200\_m4', 'dark00200\_m2', 'dark00100\_m7', 'dark00100\_m3', 'dark02000\_m4', 'dark00100\_m6', 'dark02000\_m3', 'dark02000\_m2']],  
 'PIGI': [4374, {'lot of different values'}],  
 'SPEMOWL': [6138, [0.0]],  
 'EPOLCOMP': [6530, [0, 1]],  
 'PIGMODE': [6547, [0, 2, 3, 4]],  
 'ENCXR': [4374, {'lot of different values'}],  
 'DATE\_QE': [2931, {'lot of different values'}],  
 'PIGXR': [4374, {'lot of different values'}],  
 'SM\_NAME': [2931, {'dc ', 'sigF ', 'pQF mQF pUF mUF pVF mVF ', 'sigl ', 'mQQ mVQ pQQ pVQ ', 'pQQ mQQ pVQ mVQ ', 'sigQ sigU ', 'sigQ ', 'FP1 FP2 '}],  
 'CAM\_ISL': [4374, [1, 2, 4, ' 30 30 ', '30 30 ', 8, 10, '14 14 14 14 ', '1000 ', 12, 14, 400, 16, 3600, ' 20 20 ', 20, ' 1000 ', 150, 30, '12 12 12 12 12 12 ', 32, 800, '34 ', 1440, ' 60 60 ', '14 ', ' 10 10 10 10 ', 40, 300, '35 35 ', 1200, 50, '50 ', 52, 180, ' 14 ', '200 ', 3000, 60, '61 ', '15 ', 700, 832, '21 ', 450, 200, '12 12 12 ', '20 20 ', '12 ', 80, '33 ', '300 300 ', 600, '10 10 10 10 ', 1500, '60 60 ', 350, '16 ', 2400, 100, ' 14 14 14 14 ', 1000, 360, 104, '10 ', '150 150 ', 240, 500, ' 10 ', ' 200 ', 120, '4 ']],  
 'DATE\_QS': [2931, {'lot of different values'}],  
 'ENCYR': [4374, {'lot of different values'}],  
 'SLOUT': [4374, {'lot of different values'}],  
 'PIGYR': [4374, {'lot of different values'}],  
 'DATE\_END': [2931, {'lot of different values'}],  
 'SIMPLE': [3776, [True]],  
 'BITPIX': [3776, [32, 16]],

'NAXIS': [3776, {2, 3}],  
'NAXIS1': [3776, {1240, 580, 400}],  
'NAXIS2': [3776, {580, 560, 272, 280, 284}],  
'NAXIS3': [1443, {2, 4}],  
'BZERO': [3776, {2147483648, 32768}],  
'SPEOROPT': [4153, {6, 9, 10, 11, 12, 13, 14, 15, 17, 19, 21, 23, 26, 29, 33, 37, 42, 47, 53}],  
'IPP\_SRW': [4195, {1240}],  
'IPP\_SRT': [4195, {0}],  
'SANGLE': [3520, {0.0, 37.16253147440688, 134.582228278089, 38.6751806655081, 136.1564260832674, 140.1934046844255, 141.4279251396977, 145.874298023651, 145.87429802365097, 145.0021622065976, 52.44509148527758, 145.6448248649345}],  
'IPP\_SRL': [4195, {0}],  
'IPP\_SRH': [4195, {560}],  
'ENCSLIT': [4188, {0, 0.300195, 0.100098, 9.76563e-05, 0.100195, 0.0599609, 0.0600586, 0.0302734, 0.0598633, 0.000195313}],  
'SPEFWENC': [4113, {'lot of different values'}],  
'SPEFNR': [4153, {1, 3, 6, 8, 12, 13, -1}],  
'PIGIMIN': [6350, {160, 150, 149, 30}],  
'SPEFWL': [3480, {0, 5990, 4520, 5230, 4250}],  
'TSP35': [597, {0, 68, 104, 77, 46, 79, 269, 211, 87, 151, 25, 26}],  
'TSP34': [597, {0}],  
'TSP33': [597, {0, 113, 42, 126}],  
'TSP32': [597, {0, 96, 450, 131, 3, 101, 38, 230, 268, 76, 140, 175, 14, 110, 249, 318, 31}],  
'TSP31': [597, {0, 11, 12, 21, 153, 162, 44, 175, 48, 50, 57, 66, 72, 85, 220, 225, 100, 108, 109, 250}],  
'TSP30': [597, {0, 32, 102, 104, 109, 20, 22, 25, 60, 127}],  
'TSP25': [597, {128, 193, 0, 133, 165, 46, 80, 113, 116, 184, 90, 91, 156}],  
'TSP24': [597, {0}],  
'TSP23': [597, {0, 65}],  
'TSP22': [597, {0, 3, 270, 15, 535, 37, 433, 311, 195, 77, 207, 483, 234, 241, 115, 118, 247, 508, 253}],  
'TSP21': [597, {0, 129, 137, 11, 12, 22, 30, 164, 172, 175, 48, 191, 73, 74, 202, 207, 91, 101, 117, 251}],  
'TSP20': [597, {0, 128, 32, 172, 20, 22, 88, 60, 191}],  
'TSP15': [597, {0, 416, 3, 71, 72, 268, 79, 209, 116}],  
'TSP14': [597, {0, 65, 67, 104, 41, 10, 75, 45, 50, 53, 87, 218}],  
'TSP13': [597, {0, 3}],  
'TSP12': [597, {0, 3, 262, 16, 160, 37, 168, 171, 45, 305, 58, 203, 76, 80, 212, 218, 92, 99, 110}],  
'TSP11': [597, {0, 100, 11, 12, 48, 176, 52, 20, 22, 60}],  
'TSP10': [597, {0, 64, 32, 229, 176, 20, 22, 251, 60, 61, 127}],  
'TSP05': [597, {0, 194, 99, 227, 333, 77, 145, 85, 215, 376, 409, 346, 219, 158}],  
'TSP04': [597, {0, 33, 71, 76, 45, 174, 13, 12, 18, 19, 91, 60, 127}],  
'TSP03': [597, {0, 66, 139, 39}],  
'TSP02': [597, {0, 3, 292, 37, 4, 186, 204, 268, 78, 271, 16, 145, 84, 181, 213, 250, 316, 254}],  
'TSP01': [597, {0, 102, 201, 11, 12, 47, 22}],  
'TSP00': [597, {0, 128, 32, 99, 20, 118, 22, 60}],

'TC': [2326, [-15.017, -15.0, -15.001, -15.003, -15.002, -15.009, -14.999, -14.993, -15.012, -15.011, -15.01, -14.99, -14.992, -14.991, -14.987, -14.984, -15.018, -15.013, -15.015, -15.016, -15.014, -14.988, -15.008, -15.006, -15.007, -15.004, -14.995, -14.994, -14.998, -14.996, -14.997, -15.005]],

'SEQ\_STAT': [2326, {0}],

'FP1\_TILT': [5142, {0.0, -0.7315, -0.0532, -0.6916, -0.7448, -0.7182, 0.2261, 0.1463, -0.0931, -0.1463, -0.5985, -0.1064}],

'FP1\_PV': [5142, {26.13, 26.0, 21.99, 22.01, 22.0, 22.03, 25.96, 26.05, 26.08, 26.07, 26.04, 26.01, 26.02, 26.09, 26.03, 26.06, 26.11, 25.77, 25.97, 25.98, 25.99, 21.98, 21.97, 21.96, 22.02, 22.07, 22.04, 22.06, 22.1, 22.05, 22.09, 22.08, 22.11, 24.89, 25.6}],

'FP2\_HV': [5142, {'lot of different values'}],

'FPE\_WL': [5142, {'lot of different values'}],

'FP1\_TEMP': [5142, {26.0, 22.0}],

'IT': [2333, {0.3, 0.06, 0.6, 2.0, 1.0, 0.2, 0.18, 0.45, 0.82, 0.24, 5.0, 2.1, 12.4953, 13.0458, 14.9316, 15.7441, 14.5424, 13.2252, 0.125, 0.05, 1.2, 0.12, 0.03, 0.1, 0.15, 0.13, 0.025, 0.8, 0.018, 0.02, 0.14, 0.08, 0.015, 0.013, 0.4, 0.009, 0.01}],

'FP2\_PV': [5142, {26.03, 26.11, 25.95, 21.99, 22.0, 21.98, 22.01, 25.96, 26.1, 26.06, 26.07, 26.04, 26.01, 26.02, 26.09, 26.0, 26.05, 26.08, 25.84, 25.97, 25.98, 25.99, 21.97, 21.96, 21.95, 21.94, 22.03, 22.02, 22.04, 22.05, 22.08, 22.07, 22.09, 22.06, 22.11, 22.12, 24.92, 25.67}],

'SEQ\_MODE': [2326, {0}],

'FP2\_TILT': [5142, {0.0, 1.0108, 0.0798, 1.0241, 1.0374, -0.2128, -0.1596, 0.1064, 0.2128, 0.133, 0.9177, -0.0133}],

'MOD\_INV': [2326, {0}],

'TW': [2326, {'lot of different values'}],

'FP1\_HV': [5142, {'lot of different values'}],

'FP2\_TEMP': [5142, {26.0, 22.0}],

'FPE\_CADF': [5048, {""dark00050\_m1"", 'dark01200\_m1', 'dark00020\_m2', ""dark00060\_m1"", 'dark00100\_m1', ""dark00130\_m1"", ""dark02100\_m2"", 'dark00030\_m1', 'dark00120\_m1', 'dark00125\_m1', 'dark00050\_m1', ""dark00200\_m2"", 'dark00018\_m1', ""dark00140\_m1"", 'dark00150\_m1', ""dark00120\_m1"", ""dark00150\_m1"", ""dark02100\_m1"", 'dark02100\_m1', ""dark00100\_m1"", ""dark00180\_m1"", ""dark00800\_m1"", ""dark02000\_m1"", ""dark00020\_m2"", ""dark00125\_m1"", 'dark02000\_m1', 'dark00060\_m1', 'dark00009\_m1', 'dark00180\_m1', 'dark00200\_m1', 'dark00600\_m3', 'dark02100\_m2', 'dark00130\_m1', 'dark01000\_m6', 'dark00240\_m1', 'dark00200\_m2', ""dark00030\_m1"", ""dark01000\_m6"", ""dark00240\_m1"", 'dark00800\_m1', ""dark01200\_m1"", 'dark00140\_m1', ""dark00200\_m1""}],

'TSL': [7, {2754202432, 1327372455, 3915151819, 3712287148, 2165048620, 4258760121, 1215371039}],

'TS': [7, {13507.909, 2736.625, 16305.931, 20752.123, 12213.421, 4990.278, 7903.302}],

'TSH': [7, {98, 36, 19, 118, 150, 88, 57}],

'HWC': [7, {194183, 214775, 331563, 43253, 79158, 125495, 259259}],

'ISN': [7, {0}],

'SSL': [7, {0}],

'SWC': [7, {326785, 194183, 214775, 43253, 79158, 125495, 259259}],

'CNT\_CMB': [2904, {0, 1449056133, -1449053689.0, -1449047670.0, -1449045490.0, 1449057295.0, -1448978800.0, -1448979953.0, -1449048796.0, 1449050535, -1448977623.0, 1449046570.0, -1449051598.0, -1448976585.0, 1449052601, -1449052601.0, 1448976585, 1449051598.0, -1449046570.0, 1448977623.0,

-1449050535.0, 1449048796.0, 1448978800, -1449057295.0, 1449045490, 1448979953.0,  
1449047670, 1449053689.0, -1449056133.0]],

'CNT\_HWP': [2904, {0, 45}],

'seq\_mode': [2797, {32}],

'img\_l': [2797, {0}],

'mod\_inv': [2797, {0}],

'seq\_state': [2797, {0, 1}],

'date': [2797, {'lot of different values'}],

'tc': [2797, {'lot of different values'}],

'it': [2797, {0.8, 0.3}],

'tw': [2797, {'lot of different values'}],

'img\_t': [2797, {0}]