# Juno
# JIRAM

## Report JM0121

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# 1 INTRODUCTION

This document describes the activities that JIRAM performed during the activity period JM0121 (PJ12), with particular attention to the comparison with the expected data and that achieved, keeping track of the configuration of the instrument with commanding file (SASF).

# 2 REFERENCES

a) Adriani A., G. Filacchione, T. Di Iorio, D. Turrini, R. Noschese, A. Cicchetti, D. Grassi, A. Mura, G. Sindoni, M. Zambelli, G. Piccioni, M.T. Capria, F. Tosi, R. Orosei, B.M. Dinelli, M.L. Moriconi, E. Roncon, J.I. Lunine, H.N. Becker, A. Bini, A. Barbis, L. Calamai, C. Pasqui, S. Nencioni, M. Rossi, M. Lastri, R. Formaro, A. Olivieri (2014), JIRAM, the Jovian Infrared Auroral Mapper. Space Sci. Rev., DOI 10.1007/s11214-014-0094-y.

b) Adriani A., M.L. Moriconi, A. Mura, F. Tosi, G. Sindoni, R. Noschese, A. Cicchetti, G. Filacchione (2016), Juno's Earth flyby: the Jovian infrared Auroral Mapper preliminary results, Astrophys Space Sci, DOI 10.1007/s10509-016-2842-9.

c) Becker, H.N., J.W. Alexander, A. Adriani, A. Mura, A. Cicchetti, R. Noschese, J.L. Jørgensen, T. Denver, J. Sushkova, A. Jørgensen, M. Benn, J.E.P. Connerney, S.J. Bolton, the Selex Galileo Juno SRU Team, J. Allison, S. Watts, V. Adumitroaie, E.A. Manor-Chapman, I.J. Daubar, C. Lee, S. Kang, W.J. McAlpine, T. Di Iorio, C. Pasqui, A. Barbis, P. Lawton, L. Spalsbury, S. Loftin, and J. Sun (2017), The Juno Radiation Monitoring (RM) Investigation, Space Sci Rev, doi: 10.1007/s11214-017-0345-9.

# 3 ACTIVITY DESCRIPTION

During PJ12 pass, JIRAM could have a partial coverage of the South Aurora (see Fig. 1) and North Aurora focused on satellites footprint (see Fig. 1). Note that in correspondance of each imager's pictures there is a spectral observation. Details about imager/spectrometer coupling and, more in general, about the instrument and its performances can be found in Adriani et al., 2014 and 2016. During this PJ, JIRAM performed the coverage of the Great Red Spot (see Figs. 3, 4 and 5) and dedicated radiation and calibration observations.

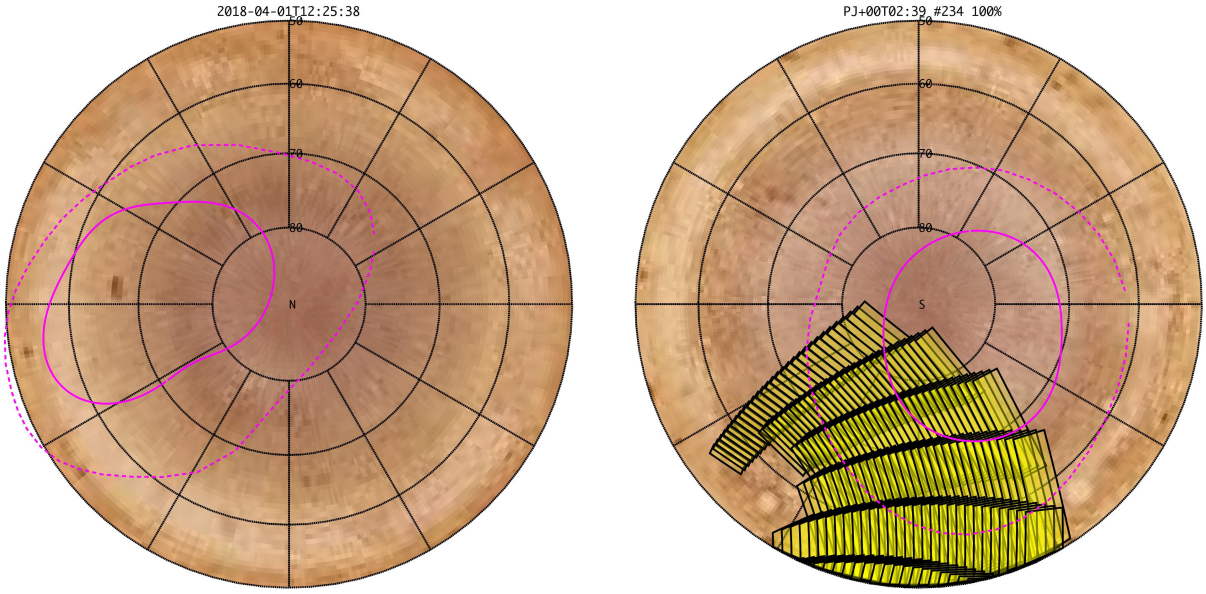


**Figure 1:** ***South Aurora***

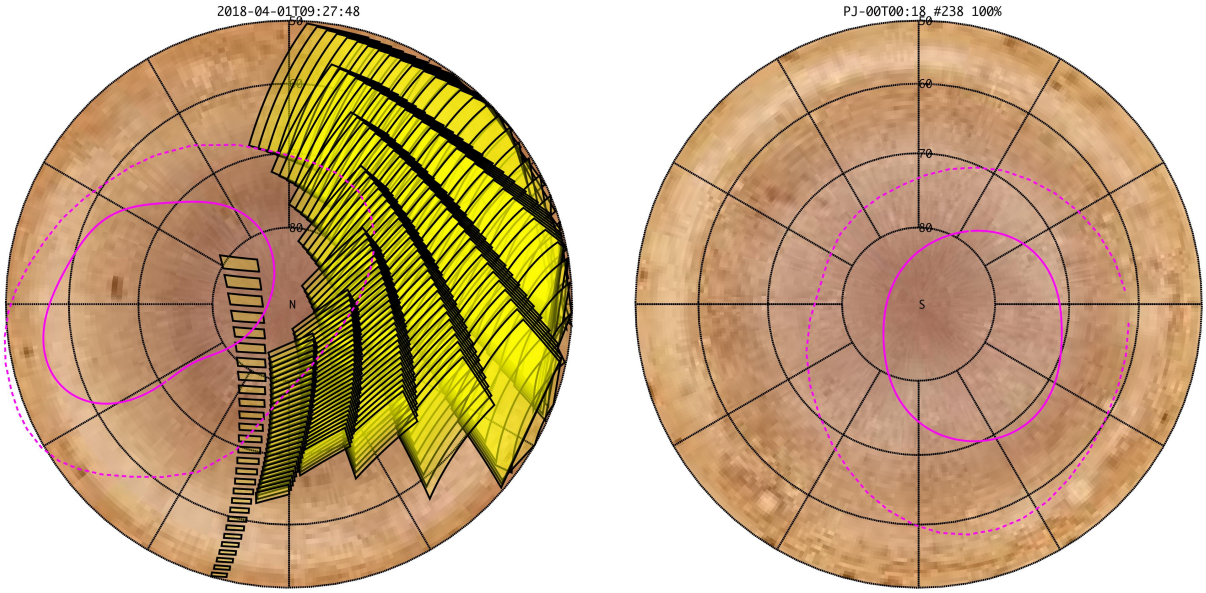


**Figure 2 North Aurora.**

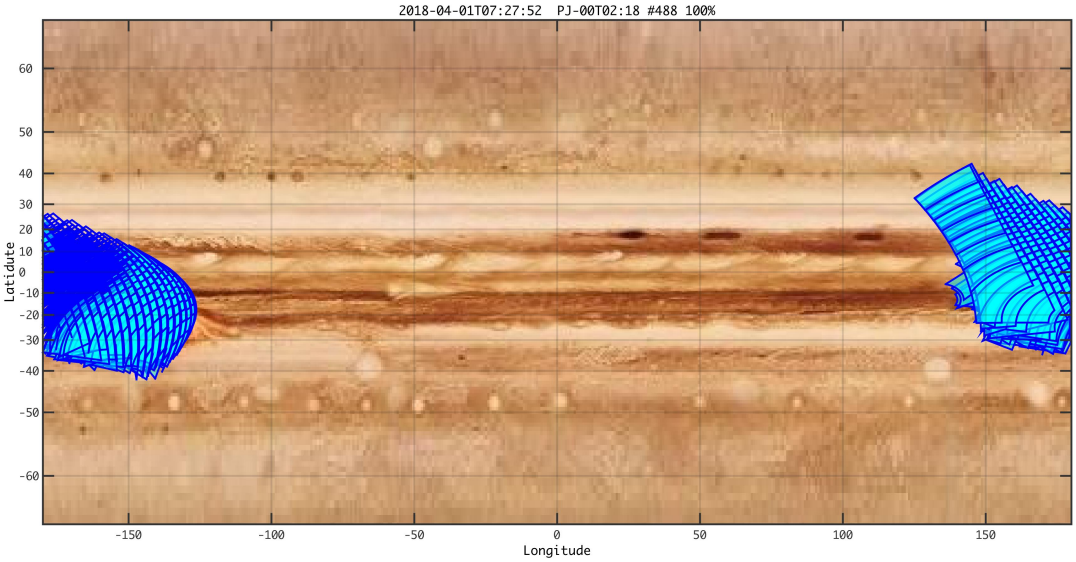


**Figure 3:** ***Coverage Atmosphera***

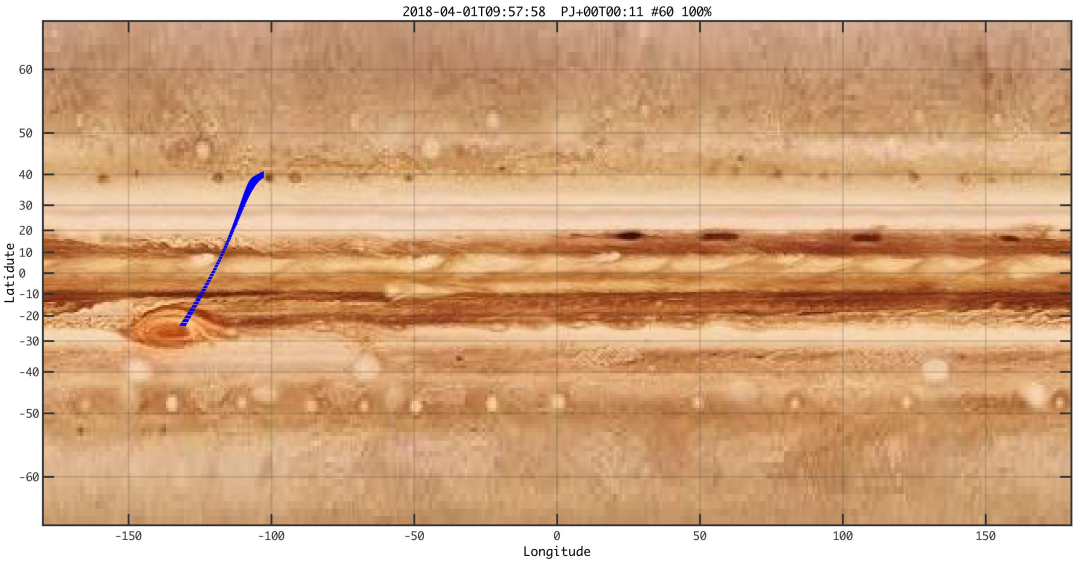


**Figure 4:** ***Coverage Nadir***

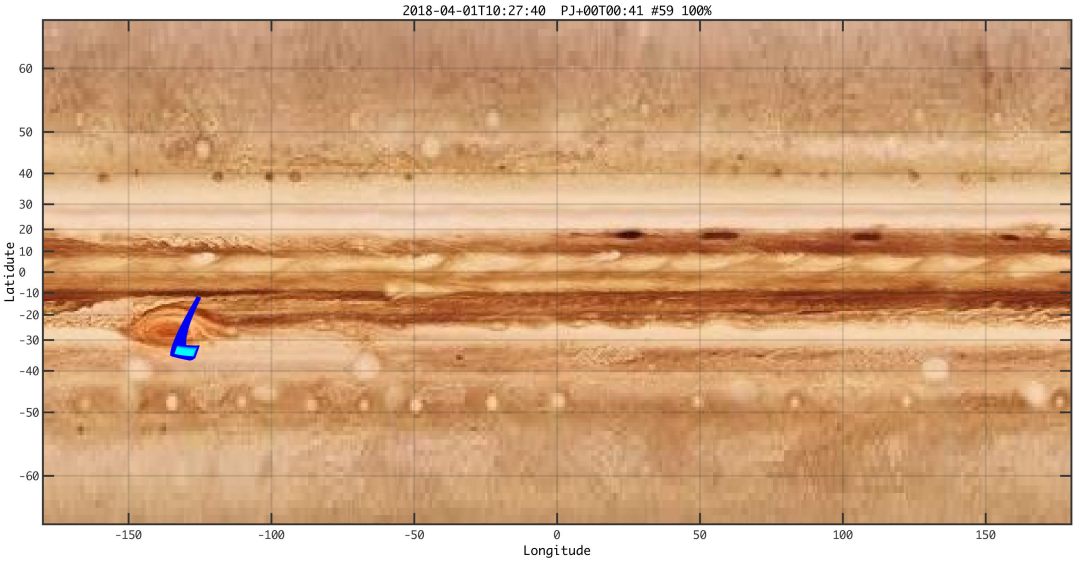


**Figure 5:** ***Coverage the Great Red Spot***

# 4 RADIATIONS ACQUISITION

Radiation sequences were collected in locations of low particle flux in order to update the mapping of good pixel locations to be used in subsequent radiation data processing. Radiation sequences targeting observations of the radiation environment were performed in the middle magnetosphere.

# 5 SCIENTIFIC GOALS

Below is a table that describes for each science block in the commanding file the relative operative mode and the scientific objectives. The files relating to the varius science blocks are shown in the file "JIR_STATUS_EDR_2018090T161934_V01.CSV" in the INDEX directory.

| JRM (sasf) | Operative Mode | Goals |
|---|---|---|
| JRM_004 | CAL_I1_S1 | INTERNAL CALIBRATION |
| JRM_005 | SCI_I1_S0 | RADIATION |
| JRM_006 – JRM_011 | SCI_I1_S1 | RADIATION+CALIBRATION |
| JRM_012 - JRM_024 | SCI_I1_S0 | RADIATION |
| JRM_025 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_026 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_027 | SCI_I1_S1 | EMISSION ANGLE |

| | | |
|---|---|---|
| JRM_028 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_029 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_030 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_031 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_032 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_033 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_034 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_035 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_036 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_037 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_038 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_039 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_040 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_041 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_042 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_043 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_044 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_045 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_046 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_047 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_048 | SCI_I1_S1 | NORTH EQUATOR |
| JRM_049 | SCI_I1_S1 | EMISSION ANGLE |
| JRM_050 | SCI_I3_S1 | IO FOOTPRINT NORTH |
| JRM_051 | SCI_I3_S1 | IO FOOTPRINT NORTH |
| JRM_052 | SCI_I3_S1 | IO FOOTPRINT NORTH |
| JRM_053 | SCI_I3_S1 | IO FOOTPRINT NORTH |
| JRM_054 | SCI_I3_S1 | IO FOOTPRINT NORTH |
| JRM_055 | SCI_I3_S1 | IO FOOTPRINT NORTH |
| JRM_056 | SCI_I3_S1 | IO FOOTPRINT NORTH |
| JRM_057 | SCI_I3_S1 | IO FOOTPRINT NORTH |
| JRM_058 | SCI_I2_S1 | NADIR |
| JRM_059 | SCI_I2_S1 | GREAT RED SPOT |
| JRM_060 | SCI_I3_S1 | AURORA SOUTH |
| JRM_061 | SCI_I3_S1 | AURORA SOUTH |
| JRM_062 | SCI_I3_S1 | AURORA SOUTH |
| JRM_063 | SCI_I3_S1 | AURORA SOUTH |
| JRM_064 | SCI_I3_S1 | AURORA SOUTH |
| JRM_065 | SCI_I3_S1 | AURORA SOUTH |
| JRM_066 | SCI_I3_S1 | AURORA SOUTH |
| JRM_067 | SCI_I3_S1 | AURORA SOUTH |
| JRM_068 | CAL_I1_S1 | INTERNAL CALIBRATION |

*Table 1: Scientific Goals*

# 6 DATA COLLECTION OVERWIER

Below a table that give an overwier of the data collected during the activity period JM0121. The table describes, for each science block in the commanding file, the programmed operative modes, with the real collected data.

| JRM (sasf) | Operative Mode | Observations | Packets Retrived | Packets Exepected | Missing Observations SPE | Missing Observations IMG |
|---|---|---|---|---|---|---|
| JRM_004 | CAL_I1_S1 | 6 IMG<br>6 SPE | 72 | 72 | 0 | 0 |
| JRM_005 | SCI_I1_S0 | 3 IMG | 18 | 18 | N/A | 0 |
| JRM_006 | SCI_I3_S1 | 40 IMG<br>40 SPE | 360 | 360 | 0 | 0 |
| JRM_007 | SCI_I3_S1 | 40 IMG<br>40 SPE | 360 | 360 | 0 | 0 |
| JRM_008 | SCI_I3_S1 | 40 IMG<br>40 SPE | 360 | 360 | 0 | 0 |
| JRM_009 | SCI_I3_S1 | 40 IMG<br>40 SPE | 360 | 360 | 0 | 0 |
| JRM_010 | SCI_I3_S1 | 40 IMG<br>40 SPE | 360 | 360 | 0 | 0 |
| JRM_011 | SCI_I3_S1 | 40 IMG<br>40 SPE | 360 | 360 | 0 | 0 |
| From JRM_012 To JRM_024 | SCI_I1_S0 | 39 IMG | 234 | 234 | N/A | 0 |
| JRM_025 | SCI_I1_S1 | 20 IMG<br>20 SPE | 240 | 240 | 0 | 0 |
| JRM_026 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_027 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_028 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_029 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_030 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_031 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_032 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_033 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_034 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_035 | SCI_I1_S1 | 17 IMG | 204 | 204 | 0 | 0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 17 SPE | | | | |
| JRM_036 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_037 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_038 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_039 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_040 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_041 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_042 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_043 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_044 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_045 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_046 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_047 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_048 | SCI_I1_S1 | 17 IMG<br>17 SPE | 204 | 204 | 0 | 0 |
| JRM_049 | SCI_I1_S1 | 5 IMG<br>5 SPE | 60 | 60 | 0 | 0 |
| JRM_050 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_051 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_052 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_053 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_054 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_055 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_056 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_057 | SCI_I3_S1 | 25 IMG<br>25 SPE | 225 | 225 | 0 | 0 |
| JRM_058 | SCI_I2_S1 | 56 IMG<br>56 SPE | 504 | 504 | 0 | 0 |
| JRM_059 | SCI_I2_S1 | 55 IMG<br>55 SPE | 495 | 495 | 0 | 0 |
| JRM_060 | SCI_I3_S1 | 26 IMG<br>26 SPE | 234 | 234 | 0 | 0 |
| JRM_061 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_062 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_063 | SCI_I3_S1 | 27 IMG | 243 | 243 | 0 | 0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 27 SPE | | | | |
| JRM_064 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_065 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_066 | SCI_I3_S1 | 27 IMG<br>27 SPE | 243 | 243 | 0 | 0 |
| JRM_067 | SCI_I3_S1 | 21 IMG<br>21 SPE | 189 | 189 | 0 | 0 |
| JRM_068 | CAL_I1_S1 | 6 IMG<br>6 SPE | 72 | 72 | 0 | 0 |

*Table 2: Data Overwier*

## A.1 Commanding file (sasf)

```
************************************************************


************************************************************

CCSD3ZF0000100000001NJPL3KS0L015$$MARK$$;
MISSION_NAME = JUNO;
SPACECRAFT_NAME = JUNO;
DATA_SET_ID = SPACECRAFT_ACTIVITY_SEQUENCE_JRM;
FILE_NAME = jm0121_JRMa.sasf;
APPLICABLE_START_TIME = 2018-090T09:00:00.000;
APPLICABLE_STOP_TIME = 2018-116T19:00:00.000;
PRODUCT_CREATION_TIME = 2018-058T13:53:53.000;
PRODUCER_ID = JRMTEAM;
SEQ_ID = jm0121_JRMa;
HOST_ID = JRM_CMD_121_121_V02.jrm;
CCSD3RE00000$$MARK$$NJPL3IF0M01300000001;
$$JNO         SPACECRAFT ACTIVITY SEQUENCE FILE
************************************************************
*PROJECT    JNO
*SPACECRAFT 61
*OPERATOR   JRMTEAM
*FILE_CMPLT TRUE
*DATE       Tue Feb 27 13:53:53 2018
*BEGIN      2018-090T09:00:00.000
*CUTOFF     2018-116T19:00:00.000
*TITLE      jm0121_JRMa
*EPOCHS_DEF
*jm0121_JRM,      2018-090T09:00:00.000
*EPOCHS_END
*Input files used:
*File Type  Last modified             File name
*PACKETS_NUMBER  12354
************************************************************
$$EOH
$$EOD
request(JRM_Sequence_Management_Request,
               START_TIME,2018-090T09:00:00.000,
               TITLE, "JRM_MAINTENANCE",
               REQUESTOR, "JRMTEAM",
               PROCESSOR, "VC2",
               KEY, "No_Key")

activity(1,
         SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                SEQTRAN_directive
                (VML_START,2001-001T00:00:00.000,2030-
001T00:00:00.000,"ABSLTE","jm0121_JRM","jm0121_JRM.abs","d:/seq")
            ),
     command(2,
               SCHEDULED_TIME,\00:00:30\,FROM_PREVIOUS_START,
               FILE_DELETE("d:/seq/jm0121_JRM.abs")
            ),
     command(3,
               SCHEDULED_TIME,\026T09:59:58\,FROM_REQUEST_START,
               VM_LOAD(20,"d:/seq/jm0122_JRM.abs")
            ),
 end;

request(JRM_001,
                START_TIME,2018-090T10:55:04.000,
                TITLE, "jm0121_JRM_Heater_Op",
                REQUESTOR, "JRMTEAM",
                PROCESSOR, "VC2",
                KEY, "No_Key")
        command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                THRM_SET_PT_SEL("JIRAM_OH","OPERATIONAL")
        ),
```

```
        command(2,
                SCHEDULED_TIME,\00:00:01\,FROM_PREVIOUS_START,
                THRM_SET_PT_SEL("JIRAM_DECON","OPERATIONAL")
        ),
        command(3,
                SCHEDULED_TIME,\03:10:00\,FROM_PREVIOUS_START,
                THRM_SET_PT_SEL("JIRAM_ELECT_BP","OPERATIONAL")
        ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NaN"\
             ),
 end;

request(JRM_002,
                  START_TIME,2018-090T16:16:04.000,
                  TITLE, "jm0121_JRM-POWER_ON",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
            spawn(1,
                  SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                  REQ_ENGINE_ID,21,RT_on_board_block(jiram_pwr_on)
             ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NaN"\
             ),
 end;

request(JRM_003,
                  START_TIME,2018-090T16:18:47.000,
                  TITLE, "jm0121_JRM_StandBy",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(111,2)
           ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STANDBY("ON","ON","ON")
           ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I2_S3",120,1,10,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,956,2,150,"LOW","LOW
","POINT",-57343,2,150,"LOW","LOW","SPIN",0,"NO_SUMMED_SCI")
             ),
              note(1,
                   SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                   TEXT,\"NaN"\
              ),
 end;

request(JRM_004,
                  START_TIME,2018-090T16:18:59.000,
                  TITLE, "jm0121_JRM_Calibration",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_CAL_PAR(8,14,8,14,30,700,30,700,30,700,30,700,30,700,200,200,153,153)
           ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
           ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
```

```
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_CALIBRATION("CAL_I1_S1","IDIS_SDIS","DISABLE",1,"LAMP_1")
            ),
         command(5,
                SCHEDULED_TIME,\00:04:00\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NaN"\
             ),
 end;

request(JRM_005,
                  START_TIME,2018-090T16:28:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
```

```
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_001_Approach_2018-090T16:28:15.000"\
             ),
 end;

request(JRM_006,
                  START_TIME,2018-090T16:39:20.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",40,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,2941,5000,5000,"LOW","
LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-34,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:21:51\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"RAD+CAL"\
             ),
 end;

request(JRM_007,
                  START_TIME,2018-090T17:19:41.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",40,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,2941,5000,5000,"LOW","
LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-34,"NO_SUMMED_SCI")
```

```
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:21:51\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"RAD+CAL"\
             ),
 end;

request(JRM_008,
                   START_TIME,2018-090T18:00:02.000,
                   TITLE, "jm0121_JRM_Science",
                   REQUESTOR, "JRMTEAM",
                   PROCESSOR, "VC2",
                   KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",40,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,2941,5000,5000,"LOW","
LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-34,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:21:51\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"RAD+CAL"\
             ),
 end;

request(JRM_009,
                   START_TIME,2018-090T18:40:24.000,
                   TITLE, "jm0121_JRM_Science",
                   REQUESTOR, "JRMTEAM",
                   PROCESSOR, "VC2",
                   KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
```

```
JRM_SCI_PAR("SCI_I3_S1",40,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,2941,5000,5000,"LOW","
LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-34,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:21:51\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"RAD+CAL"\
             ),
 end;

request(JRM_010,
                  START_TIME,2018-090T19:20:45.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",40,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,2941,5000,5000,"LOW","
LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-35,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:21:51\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"RAD+CAL"\
             ),
 end;

request(JRM_011,
                  START_TIME,2018-090T20:01:06.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
```

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            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",40,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,2941,5000,5000,"LOW","
LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-35,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:21:51\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"RAD+CAL"\
             ),
 end;

request(JRM_012,
                  START_TIME,2018-090T20:38:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
```

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JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_002_GoodPxMap_2018-090T20:38:15.000"\
             ),
 end;

request(JRM_013,
                  START_TIME,2018-090T20:43:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
```

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                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_003_GoodPxMap_2018-090T20:43:15.000"\
             ),
 end;

request(JRM_014,
                  START_TIME,2018-090T20:48:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
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         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_004_GoodPxMap_2018-090T20:48:15.000"\
              ),
 end;

request(JRM_015,
                   START_TIME,2018-090T20:53:15.000,
                   TITLE, "jm0121_JRM_Science",
                   REQUESTOR, "JRMTEAM",
                   PROCESSOR, "VC2",
                   KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
```

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            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_005_GoodPxMap_2018-090T20:53:15.000"\
             ),
 end;

request(JRM_016,
                  START_TIME,2018-090T20:58:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
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                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_006_GoodPxMap_2018-090T20:58:15.000"\
             ),
 end;

request(JRM_017,
                  START_TIME,2018-090T21:03:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
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                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_007_GoodPxMap_2018-090T21:03:15.000"\
             ),
 end;

request(JRM_018,
                  START_TIME,2018-090T21:08:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
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         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_008_GoodPxMap_2018-090T21:08:15.000"\
             ),
 end;

request(JRM_019,
                  START_TIME,2018-090T21:58:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
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            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_009_DarkFrame_2018-090T21:58:15.000"\
             ),
 end;

request(JRM_020,
                  START_TIME,2018-090T23:31:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
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                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 TEXT,\"Radiation_Sequence_12_010_Approach_2018-090T23:31:15.000"\
             ),
 end;

request(JRM_021,
                  START_TIME,2018-090T23:58:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(7,
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                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 TEXT,\"Radiation_Sequence_12_011_Approach_2018-090T23:58:15.000"\
             ),
 end;

request(JRM_022,
                 START_TIME,2018-091T00:28:15.000,
                 TITLE, "jm0121_JRM_Science",
                 REQUESTOR, "JRMTEAM",
                 PROCESSOR, "VC2",
                 KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
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         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 TEXT,\"Radiation_Sequence_12_012_Approach_2018-091T00:28:15.000"\
             ),
 end;

request(JRM_023,
                 START_TIME,2018-091T01:28:15.000,
                 TITLE, "jm0121_JRM_Science",
                 REQUESTOR, "JRMTEAM",
                 PROCESSOR, "VC2",
                 KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
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            ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
            ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Radiation_Sequence_12_013_Approach_2018-091T01:28:15.000"\
             ),
 end;

request(JRM_024,
                  START_TIME,2018-091T02:28:15.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(92,153)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(5,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(6,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
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,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
           ),
         command(7,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
           ),
         command(8,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
           ),
         command(9,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0,0,0,"LOW","LOW","POINT"
,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
           ),
         command(10,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_GET_PAR(6000)
           ),
         command(11,
                SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
           ),
         command(12,
                SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
           ),
         command(13,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SET_PAR(92,8174)
           ),
         command(14,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
           ),
            note(1,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 TEXT,\"Radiation_Sequence_12_014_Approach_2018-091T02:28:15.000"\
            ),
 end;

request(JRM_025,
                 START_TIME,2018-091T03:21:26.000,
                 TITLE, "jm0121_JRM_Science",
                 REQUESTOR, "JRMTEAM",
                 PROCESSOR, "VC2",
                 KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2475)
           ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",20,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,115,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-1742,"NO_SUMMED_SCI")
           ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
           ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
           ),
         command(5,
                SCHEDULED_TIME,\00:11:00\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
           ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
```

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            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_026,
                  START_TIME,2018-091T03:33:02.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
          command(1,
                 SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                 JRM_SET_PAR(74,2000)
             ),
          command(2,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,147,1000,5000,"LOW","L
OW","POINT",-57343,1000,5000,"LOW","LOW","SPIN",-1875,"NO_SUMMED_SCI")
             ),
          command(3,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_START_HS_REC()
             ),
          command(4,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_SCIENCE()
             ),
          command(5,
                 SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                 JRM_ERROR_LOG()
             ),
          command(6,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_STOP_HS_REC()
             ),
              note(1,
                   SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                   TEXT,\"NEB"\
              ),
 end;

request(JRM_027,
                  START_TIME,2018-091T03:43:08.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
          command(1,
                 SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                 JRM_SET_PAR(74,2475)
             ),
          command(2,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,150,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-1861,"NO_SUMMED_SCI")
             ),
          command(3,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_START_HS_REC()
             ),
          command(4,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_SCIENCE()
             ),
          command(5,
                 SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                 JRM_ERROR_LOG()
             ),
```

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         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_028,
                  START_TIME,2018-091T03:53:13.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2250)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,143,500,5000,"LOW","LO
W","POINT",-57343,500,5000,"LOW","LOW","SPIN",-1843,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 TEXT,\"NEB"\
             ),
 end;

request(JRM_029,
                  START_TIME,2018-091T04:03:18.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2475)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,154,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-1992,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
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                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_030,
                  START_TIME,2018-091T04:13:23.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2375)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,147,250,5000,"LOW","LO
W","POINT",-57343,250,5000,"LOW","LOW","SPIN",-1979,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NEB"\
             ),
 end;

request(JRM_031,
                  START_TIME,2018-091T04:23:29.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2475)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,160,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-2135,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
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                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_032,
                   START_TIME,2018-091T04:33:34.000,
                   TITLE, "jm0121_JRM_Science",
                   REQUESTOR, "JRMTEAM",
                   PROCESSOR, "VC2",
                   KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2450)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,163,100,5000,"LOW","LO
W","POINT",-57343,100,5000,"LOW","LOW","SPIN",-2130,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NEB"\
             ),
 end;

request(JRM_033,
                   START_TIME,2018-091T04:43:39.000,
                   TITLE, "jm0121_JRM_Science",
                   REQUESTOR, "JRMTEAM",
                   PROCESSOR, "VC2",
                   KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2475)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,154,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-2118,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
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            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_034,
                  START_TIME,2018-091T04:53:44.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2000)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,169,1000,5000,"LOW","L
OW","POINT",-57343,1000,5000,"LOW","LOW","SPIN",-2296,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NEB"\
             ),
 end;

request(JRM_035,
                  START_TIME,2018-091T05:03:50.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2475)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,172,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-2294,"NO_SUMMED_SCI")
            ),
```

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         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_036,
                  START_TIME,2018-091T05:13:55.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2250)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,162,500,5000,"LOW","LO
W","POINT",-57343,500,5000,"LOW","LOW","SPIN",-2285,"NO_SUMMED_SCI")
             ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NEB"\
             ),
 end;

request(JRM_037,
                  START_TIME,2018-091T05:24:00.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2475)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
```

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JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,178,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-2490,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_038,
                  START_TIME,2018-091T05:34:05.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2375)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,167,250,5000,"LOW","LO
W","POINT",-57343,250,5000,"LOW","LOW","SPIN",-2492,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NEB"\
             ),
 end;

request(JRM_039,
                  START_TIME,2018-091T05:44:10.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2475)
            ),
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         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,184,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-2712,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_040,
                  START_TIME,2018-091T05:54:16.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2450)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,188,100,5000,"LOW","LO
W","POINT",-57343,100,5000,"LOW","LOW","SPIN",-2728,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NEB"\
             ),
 end;

request(JRM_041,
                  START_TIME,2018-091T06:04:21.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
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                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2475)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,176,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-2737,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_042,
                  START_TIME,2018-091T06:14:26.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2000)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,194,1000,5000,"LOW","L
OW","POINT",-57343,1000,5000,"LOW","LOW","SPIN",-2997,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NEB"\
             ),
 end;

request(JRM_043,
                  START_TIME,2018-091T06:24:31.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
```

```
                 PROCESSOR, "VC2",
                 KEY, "No_Key")
          command(1,
                 SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                 JRM_SET_PAR(74,2475)
             ),
          command(2,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,198,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-3024,"NO_SUMMED_SCI")
             ),
          command(3,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_START_HS_REC()
             ),
          command(4,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_SCIENCE()
             ),
          command(5,
                 SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                 JRM_ERROR_LOG()
             ),
          command(6,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_STOP_HS_REC()
             ),
              note(1,
                   SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                   TEXT,\"Emission Angle"\
              ),
 end;

request(JRM_044,
                  START_TIME,2018-091T06:34:37.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
          command(1,
                 SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                 JRM_SET_PAR(74,2250)
             ),
          command(2,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,183,500,5000,"LOW","LO
W","POINT",-57343,500,5000,"LOW","LOW","SPIN",-3046,"NO_SUMMED_SCI")
             ),
          command(3,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_START_HS_REC()
             ),
          command(4,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_SCIENCE()
             ),
          command(5,
                 SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                 JRM_ERROR_LOG()
             ),
          command(6,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_STOP_HS_REC()
             ),
              note(1,
                   SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                   TEXT,\"NEB"\
              ),
 end;

request(JRM_045,
```

```
                 START_TIME,2018-091T06:44:42.000,
                 TITLE, "jm0121_JRM_Science",
                 REQUESTOR, "JRMTEAM",
                 PROCESSOR, "VC2",
                 KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2475)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,203,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-3360,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
             ),
 end;

request(JRM_046,
                 START_TIME,2018-091T06:54:47.000,
                 TITLE, "jm0121_JRM_Science",
                 REQUESTOR, "JRMTEAM",
                 PROCESSOR, "VC2",
                 KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2375)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,185,250,5000,"LOW","LO
W","POINT",-57343,250,5000,"LOW","LOW","SPIN",-3406,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NEB"\
             ),
```

```
 end;

request(JRM_047,
                  START_TIME,2018-091T07:04:52.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
          command(1,
                  SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                  JRM_SET_PAR(74,2475)
             ),
          command(2,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,204,50,5000,"LOW","LOW
","POINT",-57343,50,5000,"LOW","LOW","SPIN",-3752,"NO_SUMMED_SCI")
             ),
          command(3,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  JRM_START_HS_REC()
             ),
          command(4,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  JRM_SCIENCE()
             ),
          command(5,
                  SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                  JRM_ERROR_LOG()
             ),
          command(6,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  JRM_STOP_HS_REC()
             ),
              note(1,
                   SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                   TEXT,\"Emission Angle"\
              ),
 end;

request(JRM_048,
                  START_TIME,2018-091T07:14:57.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
          command(1,
                  SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                  JRM_SET_PAR(74,2450)
             ),
          command(2,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",17,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,207,100,5000,"LOW","LO
W","POINT",-57343,100,5000,"LOW","LOW","SPIN",-3832,"NO_SUMMED_SCI")
             ),
          command(3,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  JRM_START_HS_REC()
             ),
          command(4,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  JRM_SCIENCE()
             ),
          command(5,
                  SCHEDULED_TIME,\00:09:27\,FROM_PREVIOUS_START,
                  JRM_ERROR_LOG()
             ),
          command(6,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  JRM_STOP_HS_REC()
             ),
              note(1,
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                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                TEXT,\"NEB"\
             ),
 end;

request(JRM_049,
                START_TIME,2018-091T07:25:02.000,
                TITLE, "jm0121_JRM_Science",
                REQUESTOR, "JRMTEAM",
                PROCESSOR, "VC2",
                KEY, "No_Key")
          command(1,
                 SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                 JRM_SET_PAR(74,2475)
             ),
          command(2,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",5,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,800,50,5000,"LOW","LOW"
,"POINT",-57343,50,5000,"LOW","LOW","SPIN",-3906,"NO_SUMMED_SCI")
             ),
          command(3,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_START_HS_REC()
             ),
          command(4,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_SCIENCE()
             ),
          command(5,
                 SCHEDULED_TIME,\00:03:15\,FROM_PREVIOUS_START,
                 JRM_ERROR_LOG()
             ),
          command(6,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_STOP_HS_REC()
             ),
              note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Emission Angle"\
              ),
 end;

request(JRM_050,
                START_TIME,2018-091T07:29:05.000,
                TITLE, "jm0121_JRM_Science",
                REQUESTOR, "JRMTEAM",
                PROCESSOR, "VC2",
                KEY, "No_Key")
          command(1,
                 SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                 JRM_SET_PAR(74,0)
             ),
          command(2,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,104,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",2417,"NO_SUMMED_SCI")
             ),
          command(3,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_START_HS_REC()
             ),
          command(4,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_SCIENCE()
             ),
          command(5,
                 SCHEDULED_TIME,\00:14:37\,FROM_PREVIOUS_START,
                 JRM_ERROR_LOG()
             ),
          command(6,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
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                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Io FP North"\
             ),
 end;

request(JRM_051,
                  START_TIME,2018-091T07:44:12.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,105,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",2556,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:37\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Io FP North"\
             ),
 end;

request(JRM_052,
                  START_TIME,2018-091T07:59:20.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,106,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",2732,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:37\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
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            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Io FP North"\
             ),
 end;

request(JRM_053,
                  START_TIME,2018-091T08:14:27.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,109,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",2928,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:37\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Io FP North"\
             ),
 end;

request(JRM_054,
                  START_TIME,2018-091T08:29:35.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,106,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",3228,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
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         command(5,
                SCHEDULED_TIME,\00:14:37\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Io FP North"\
             ),
 end;

request(JRM_055,
                  START_TIME,2018-091T08:44:42.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,104,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",3400,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:37\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Io FP North"\
             ),
 end;

request(JRM_056,
                  START_TIME,2018-091T08:59:49.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,144,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",2456,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
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                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:38\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Io FP North"\
             ),
 end;

request(JRM_057,
                  START_TIME,2018-091T09:14:56.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",25,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,604,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-8314,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:13:38\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Io FP North"\
             ),
 end;

request(JRM_058,
                  START_TIME,2018-091T09:29:31.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2450)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I2_S1",56,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,0,100,5000,"LOW","LOW"
,"POINT",-57343,100,5000,"LOW","LOW","SPIN",13923,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
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                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:29:35\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Nadir"\
             ),
 end;

request(JRM_059,
                  START_TIME,2018-091T09:59:41.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,2000)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I2_S1",55,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,0,60,5000,"LOW","LOW",
"POINT",-57343,60,5000,"LOW","LOW","SPIN",-9829,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:29:04\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"GRS"\
             ),
 end;

request(JRM_060,
                  START_TIME,2018-091T10:29:23.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",26,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,199,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-4021,"NO_SUMMED_SCI")
```

```
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:07\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Aurora South"\
             ),
 end;

request(JRM_061,
                  START_TIME,2018-091T10:44:00.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,156,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-4328,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:38\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Aurora South"\
             ),
 end;

request(JRM_062,
                  START_TIME,2018-091T10:59:07.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
```

```
JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,149,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-4271,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:38\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Aurora South"\
             ),
 end;

request(JRM_063,
                  START_TIME,2018-091T11:14:14.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,152,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-4179,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:38\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Aurora South"\
             ),
 end;

request(JRM_064,
                  START_TIME,2018-091T11:29:22.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
```

```
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,153,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-4035,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:38\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Aurora South"\
             ),
 end;

request(JRM_065,
                  START_TIME,2018-091T11:44:29.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,152,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-3877,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:38\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Aurora South"\
             ),
 end;

request(JRM_066,
                  START_TIME,2018-091T11:59:37.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
```

```
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,151,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-3755,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:14:38\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Aurora South"\
             ),
 end;

request(JRM_067,
                  START_TIME,2018-091T12:14:45.000,
                  TITLE, "jm0121_JRM_Science",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
         command(1,
                SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                JRM_SET_PAR(74,0)
            ),
         command(2,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I3_S1",21,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,193,5000,5000,"LOW","L
OW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-3664,"NO_SUMMED_SCI")
            ),
         command(3,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_START_HS_REC()
            ),
         command(4,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_SCIENCE()
            ),
         command(5,
                SCHEDULED_TIME,\00:11:32\,FROM_PREVIOUS_START,
                JRM_ERROR_LOG()
            ),
         command(6,
                SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                JRM_STOP_HS_REC()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"Aurora South"\
             ),
 end;

request(JRM_068,
                  START_TIME,2018-091T12:26:37.000,
                  TITLE, "jm0121_JRM_Calibration",
```

```
                 REQUESTOR, "JRMTEAM",
                 PROCESSOR, "VC2",
                 KEY, "No_Key")
         command(1,
                 SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                 JRM_CAL_PAR(8,14,8,14,30,700,30,700,30,700,30,700,30,700,200,200,153,153)
            ),
         command(2,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_GET_PAR(6000)
            ),
         command(3,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_START_HS_REC()
            ),
         command(4,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_CALIBRATION("CAL_I1_S1","IDIS_SDIS","DISABLE",1,"LAMP_1")
            ),
         command(5,
                 SCHEDULED_TIME,\00:04:00\,FROM_PREVIOUS_START,
                 JRM_STOP_HS_REC()
            ),
         command(6,
                 SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                 JRM_ERROR_LOG()
            ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NaN"\
             ),
 end;

request(JRM_069,
                  START_TIME,2018-091T12:30:57.000,
                  TITLE, "jm0121_JRM-POWER_OFF",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
     command(1,
                  SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                  VM_LOAD(21,"d:/seq/hlfp_spm_safe_jiram.mod")
             ),
             note(1,
                  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
                  TEXT,\"NaN"\
             ),
 end;

request(JRM_070,
                  START_TIME,2018-091T12:31:13.000,
                  TITLE, "jm0121_JRM_Heater_Op",
                  REQUESTOR, "JRMTEAM",
                  PROCESSOR, "VC2",
                  KEY, "No_Key")
        command(1,
                 SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
                 THRM_SET_PT_SEL("JIRAM_OH","NON_OPERATIONAL")
        ),
        command(2,
                 SCHEDULED_TIME,\00:00:01\,FROM_PREVIOUS_START,
                 THRM_SET_PT_SEL("JIRAM_DECON","NON_OPERATIONAL")
        ),
        command(3,
                 SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
                 THRM_SET_PT_SEL("JIRAM_ELECT_BP","NON_OPERATIONAL")
        ),
 end;

$$EOF
```