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# **Juno JIRAM**

## **Report JM0121**

**JIR-IAPS-SY-012-2018**  
Version 1.0

September 05, 2018

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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------|-----|----------|
|  |  | <b>JIR-IAPS-SY-012-2018</b> |     |          |
|                                                                                   |                                                                                   | Issue                       | 1.0 | 05/09/18 |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 | Page                        | 2   | of 53    |

## Table of Contents

|          |                                       |          |
|----------|---------------------------------------|----------|
| <b>1</b> | <b>INTRODUCTION.....</b>              | <b>3</b> |
| <b>2</b> | <b>REFERENCES.....</b>                | <b>3</b> |
| <b>3</b> | <b>ACTIVITY DESCRIPTION.....</b>      | <b>3</b> |
| <b>4</b> | <b>RADIATIONS ACQUISITION.....</b>    | <b>6</b> |
| <b>5</b> | <b>SCIENTIFIC GOALS .....</b>         | <b>6</b> |
| <b>6</b> | <b>DATA COLLECTION OVERWIER .....</b> | <b>8</b> |
|          | A.1 Commanding file (sarf) .....      | 11       |

## List of Figures

|                                                          |          |
|----------------------------------------------------------|----------|
| <b>Figure 1: <i>South Aurora</i>.....</b>                | <b>4</b> |
| <b>Figure 2 <i>North Aurora.</i>.....</b>                | <b>4</b> |
| <b>Figure 3: <i>Coverage Atmospha</i>.....</b>           | <b>5</b> |
| <b>Figure 4: <i>Coverage Nadir</i>.....</b>              | <b>5</b> |
| <b>Figure 5: <i>Coverage the Great Red Spot</i>.....</b> | <b>6</b> |

## List of Tables

|                                              |           |
|----------------------------------------------|-----------|
| <b><i>Table 1: Scientific Goals</i>.....</b> | <b>7</b>  |
| <b><i>Table 2: Data Overwier</i>.....</b>    | <b>10</b> |

|                                                                                   |                                                                                   |  |                             |            |                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|------------|-----------------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |            |                 |
|                                                                                   |                                                                                   |  | Issue                       | <b>1.0</b> | <b>05/09/18</b> |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | <b>3</b>   | of <b>53</b>    |

## 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. Lastrì, 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.

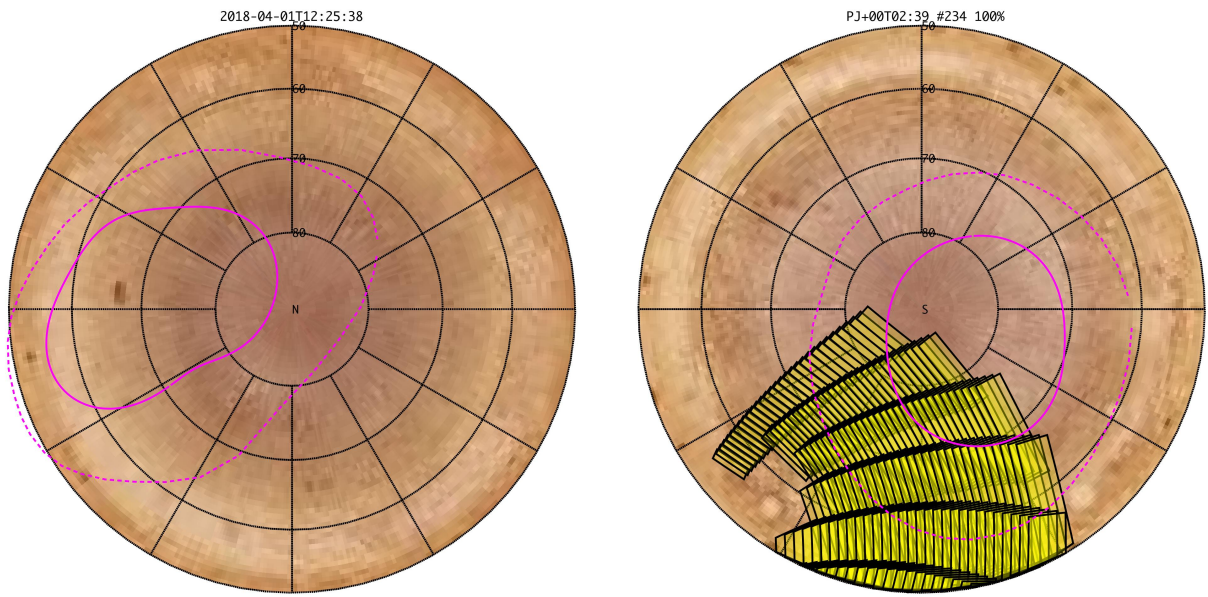


Figure 1: *South Aurora*

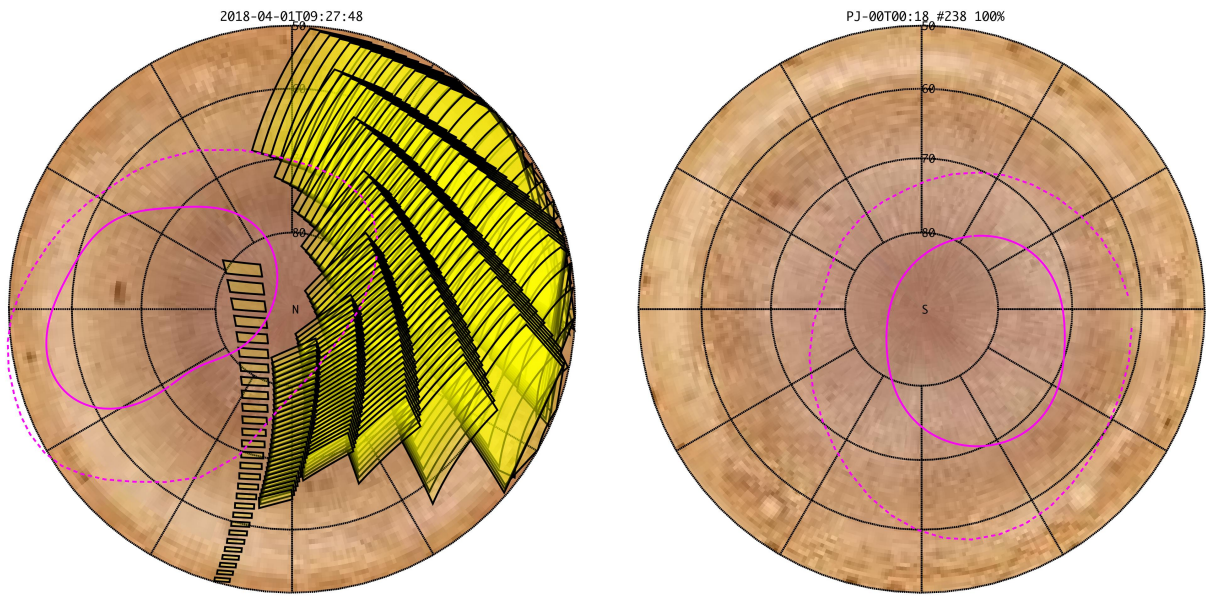


Figure 2 North Aurora.

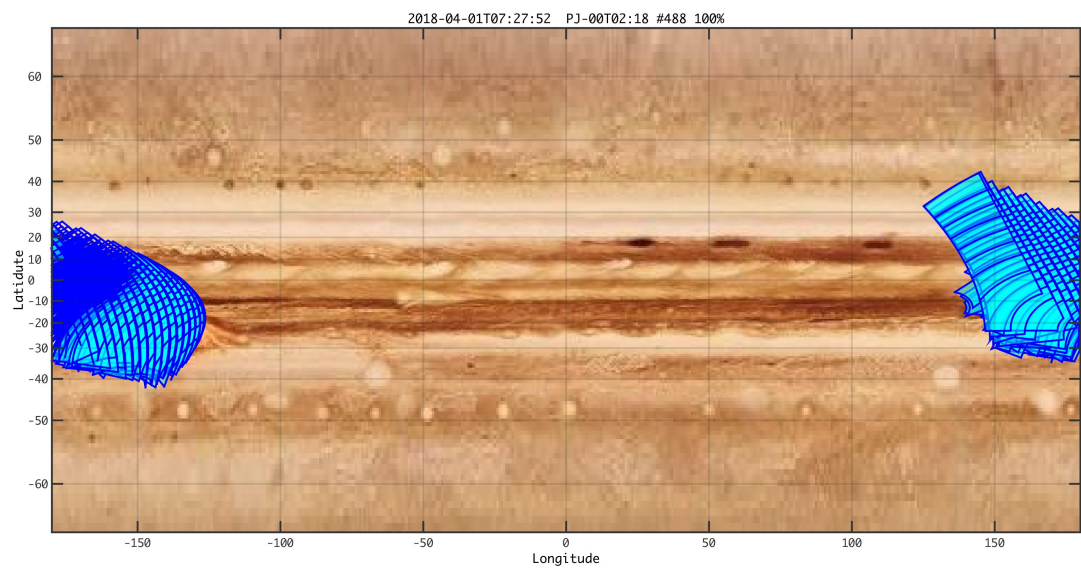


Figure 3: Coverage Atmosphere

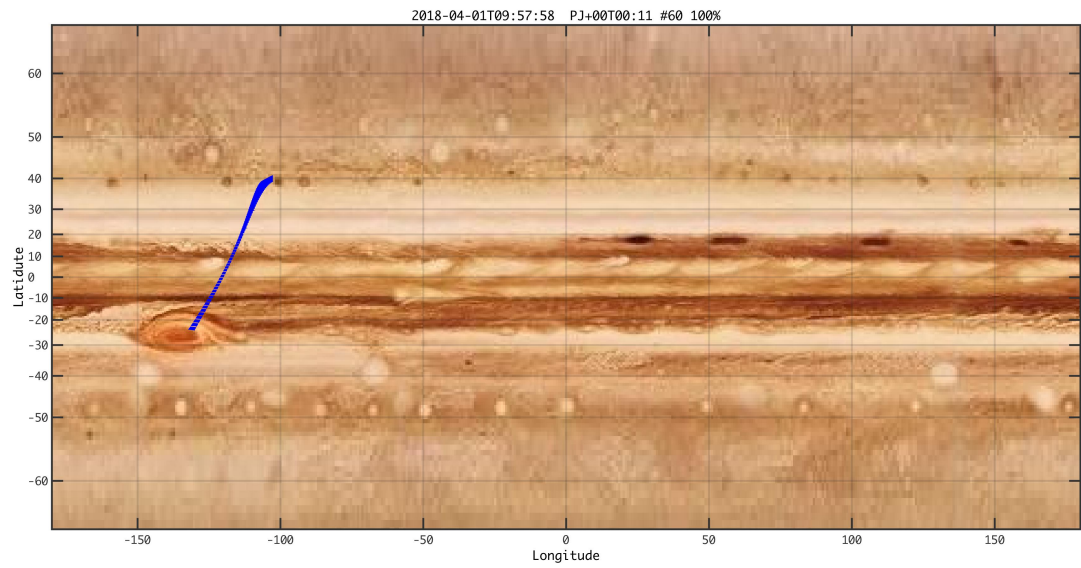
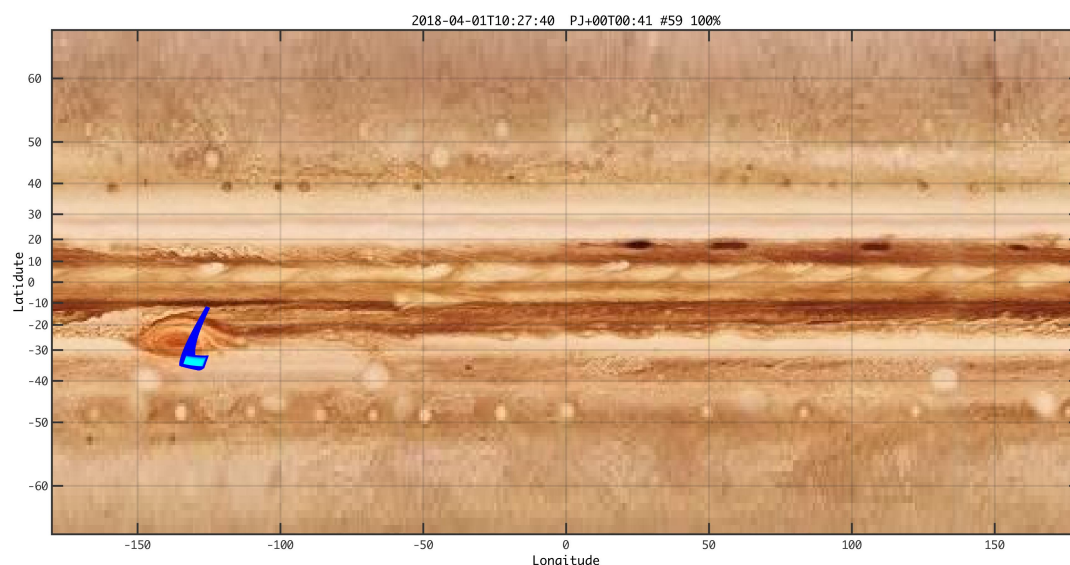


Figure 4: Coverage Nadir



**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 various science blocks are shown in the file “JIR\_STATUS\_EDR\_2018090T161934\_V01.CSV” in the INDEX directory.

| JRM (sarf)        | 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 (sarf)              | 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                        |

|                                                                                   |                                                                                   |  |                             |     |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|-----|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |     |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0 | 05/09/18 |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 9   | of 53    |

|         |           |                  |     |     |   |   |
|---------|-----------|------------------|-----|-----|---|---|
|         |           | 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 |

|                                                                                   |                                                                                   |  |                             |     |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|-----|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |     |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0 | 05/09/18 |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 10  | of 53    |

|         |           |                  |     |     |   |   |
|---------|-----------|------------------|-----|-----|---|---|
|         |           | 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*

|                                                                                   |                                                                                   |  |                      |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|----------------------|----------|
|  |  |  | JIR-IAPS-SY-012-2018 |          |
|                                                                                   |                                                                                   |  | Issue                | 1.0      |
|                                                                                   | JUNO/JIRAM                                                                        |  | Page                 | 11 of 53 |

## A.1 Commanding file (sasf)

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```

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;
CCSD3RE000000$$MARK$$NJPL3IF0M013000000001;
$$JNO      SPACECRAFT ACTIVITY SEQUENCE FILE
*****
*PROJECT      JNO
*SPACECRAFT   61
*OPERATOR     JRMTEAM
*FILE_CMPLT   TRUE
*DATE         Tue Feb 27 13:53:53 2018
*BEGIN        2018-090T09:00:00.000
*CUTOFF       2018-116T19:00:00.000
*TITLE        jm0121_JRMa
*EPOCHS_DEF
*jm0121_JRM,      2018-090T09:00:00.000
*EPOCHS_END
*Input files used:
*File Type   Last modified           File name
*PACKETS_NUMBER 12354
*****
$$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")
        ),

```

|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 12 of 53 |

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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_BF","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()

```

|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 13 of 53 |

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    ),
    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,

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|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 14 of 53 |

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        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")

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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 15 of 53 |

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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,\00:21:51\,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,

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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 16 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 17 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 18 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 19 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|------------|-----------------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |            |                 |
|                                                                                   |                                                                                   |  | Issue                       | <b>1.0</b> | <b>05/09/18</b> |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | <b>20</b>  | of <b>53</b>    |

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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()

```

|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 21 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 22 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 23 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 24 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 25 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 26 of 53 |

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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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 27 of 53 |

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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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|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 28 of 53 |

```

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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|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 29 of 53 |

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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",
    ,28991,5000,5000,"LOW","LOW","POINT",-57025,"NO_SUMMED_SCI")
)

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|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 30 of 53 |

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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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|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 31 of 53 |

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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","LOW",
"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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|                                                                                   |                                                                                   |  |                             |          |
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|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 32 of 53 |

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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","LOW",
"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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|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 33 of 53 |

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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","LOW",
"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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|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 34 of 53 |

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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","LOW",
"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()
    )

```

|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 35 of 53 |

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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","LOW",
        "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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 36 of 53 |

```

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\",\"LOW\",
    \"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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 37 of 53 |

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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","LOW",
"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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 38 of 53 |

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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","LOW",
    "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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 39 of 53 |

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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","LOW",
", "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",

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|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 40 of 53 |

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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","LOW",
"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,
```

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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 41 of 53 |

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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","LOW",
"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\"
),

```

|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 42 of 53 |

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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","LOW",
", "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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 43 of 53 |

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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\",\"LOW\",
,\"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,

```

|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 44 of 53 |

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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","LOW",
"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","LOW",
"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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 45 of 53 |

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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","LOW",
        "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","LOW",
        "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()
    ),
end;

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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 46 of 53 |

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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","LOW",
    "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","LOW",
    "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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 47 of 53 |

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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","LOW",
"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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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 48 of 53 |

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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","LOW",
"POINT",-57343,5000,5000,"LOW","LOW","SPIN",-4021,"NO_SUMMED_SCI")

```

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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
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|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 49 of 53 |

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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,\00:14:07\,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","LOW",
        "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,

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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 50 of 53 |

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JRM_SCI_PAR("SCI_I3_S1",27,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,149,5000,5000,"LOW","LOW",
"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","LOW",
"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)

```

|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 51 of 53 |

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    ),
    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","LOW",
"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","LOW",
"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")

```

|                                                                                   |                                                                                   |  |                             |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|----------|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |          |
|                                                                                   |                                                                                   |  | Issue                       | 1.0      |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 52 of 53 |

```

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","LOW",
"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","LOW",
"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",

```

|                                                                                   |                                                                                   |  |                             |     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------|-----|
|  |  |  | <b>JIR-IAPS-SY-012-2018</b> |     |
|                                                                                   |                                                                                   |  | Issue                       | 1.0 |
|                                                                                   | <b>JUNO/JIRAM</b>                                                                 |  | Page                        | 53  |
|                                                                                   |                                                                                   |  | of                          | 53  |

```

REQUESTOR, "JRMTEAM",
PROCESSOR, "VC2",
KEY, "No_Key")
command(1,
  SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
  JRM_CAL_PAR(8,14,8,14,30,700,30,700,30,700,30,700,200,200,153,153)
),
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

```