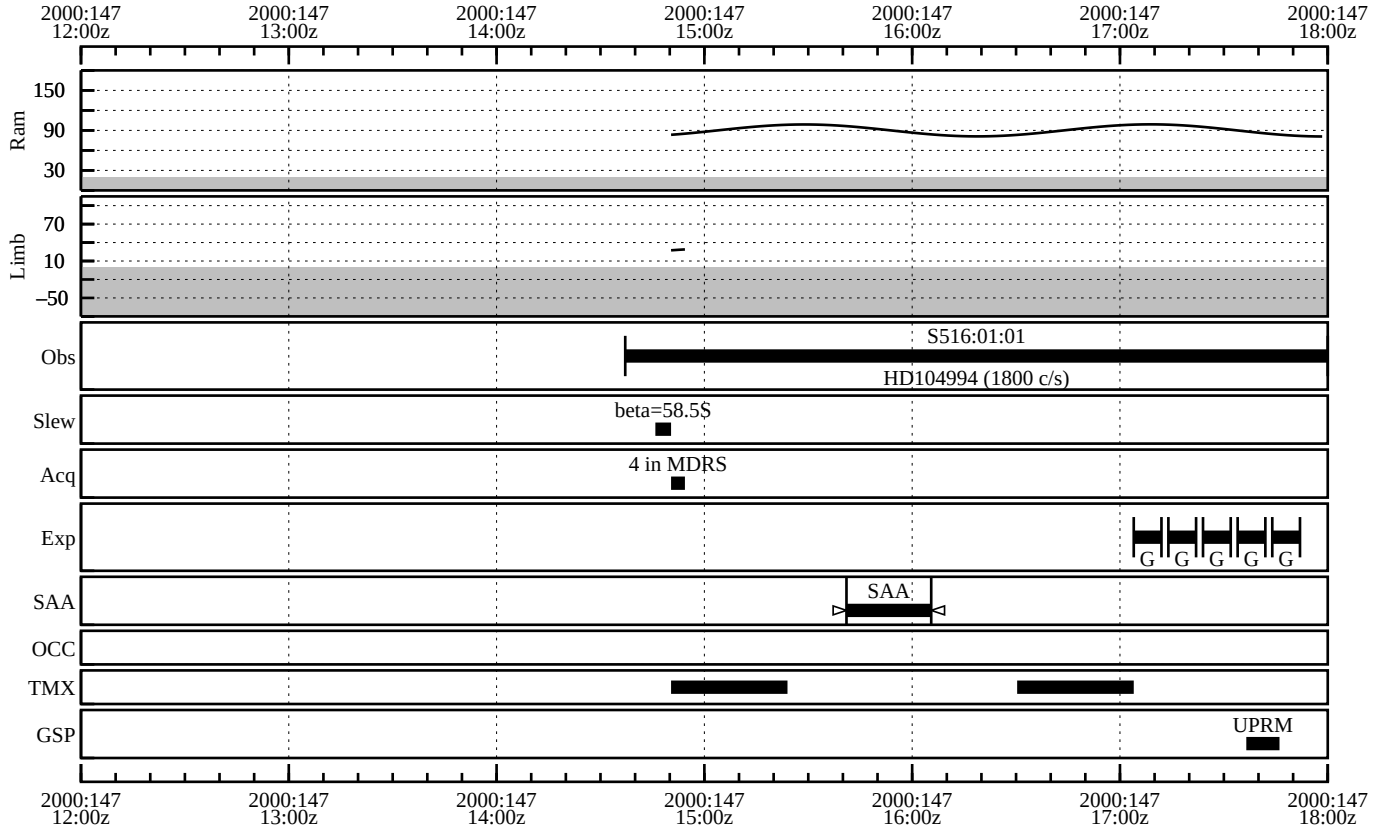
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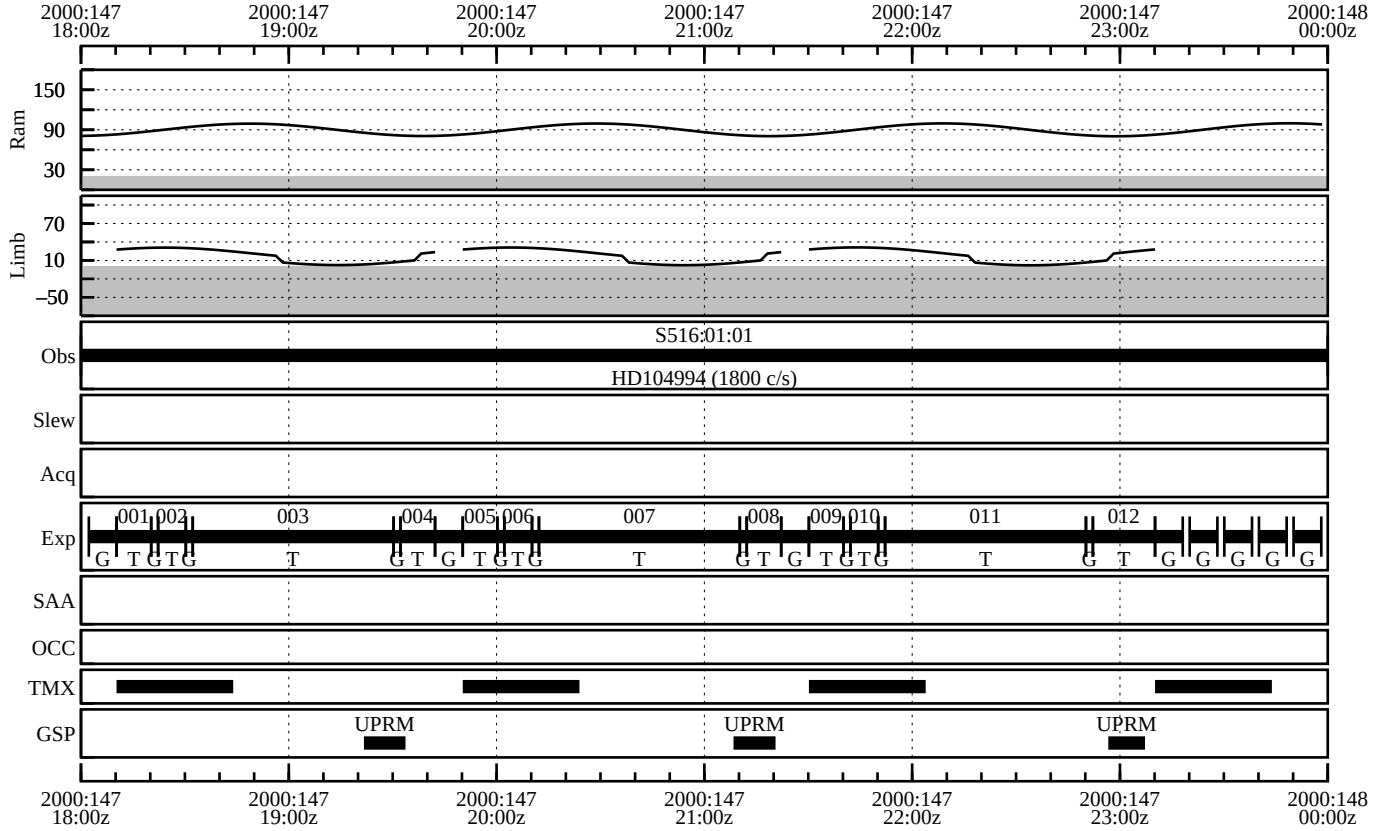
2000:147 16:00z
2000:147 17:00z
2000:147 18:00z
Ram
150
90
30
Limb
70
10
–50
Obs
S516:01:01
HD104994 (1800 c/s)
Slew
beta=58.5$
Acq
4 in MDRS
Exp
G G G G G
SAA
SAA
OCC
TMX
GSP
UPRM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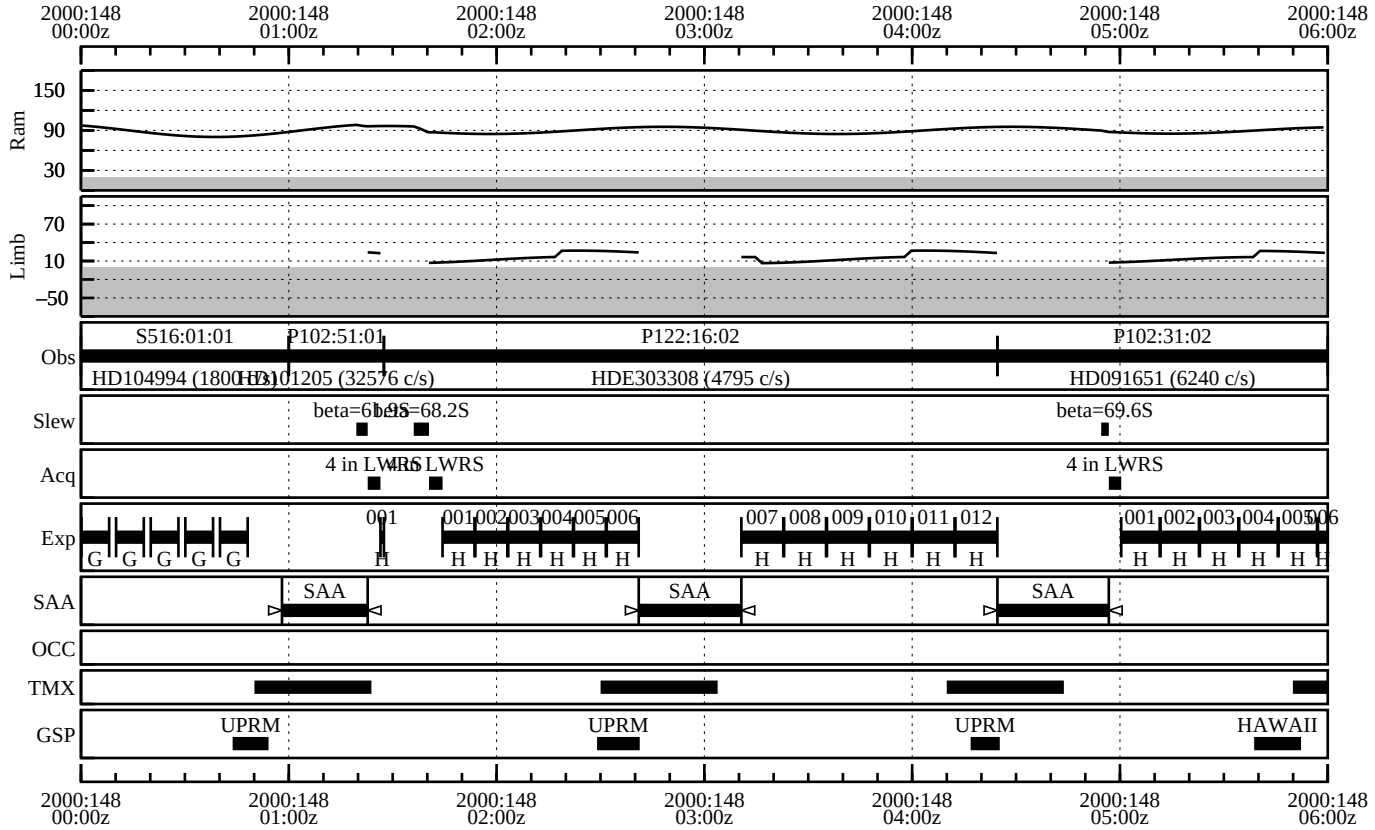
2000:147 22:00z
2000:147 23:00z
2000:148 00:00z
Ram
150
90
30
Limb
70
10
–50
Obs
S516:01:01
HD104994 (1800 c/s)
Slew
Acq
Exp
001 002 003 004 005 006 007 008 009 010 011 012
G T G T G T G T G T G T G T G T G T G T G T G T G G G G G
SAA
OCC
TMX
GSP
UPRM
UPRM
UPRM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2000:148 02:00z
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2000:148 04:00z
2000:148 05:00z
2000:148 06:00z
Ram
150
90
30
Limb
70
10
–50
Obs
S516:01:01
P102:51:01
P122:16:02
P102:31:02
HD104994 (1800 c/s)
HD101205 (32576 c/s)
HDE303308 (4795 c/s)
HD091651 (6240 c/s)
Slew
beta=68.2S
beta=69.6S
Acq
4 in LWRS
4 in LWRS
Exp
001
001 002 003 004 005 006
007 008 009 010 011 012
001 002 003 004 005 006
G G G G G
H
H H H H H H
H H H H H H
H H H H H H
SAA
SAA
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM
UPRM
HAWAII
2000:148 06:00z
2000:148 07:00z
2000:148 08:00z
2000:148 09:00z
2000:148 10:00z
2000:148 11:00z
2000:148 12:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P102:31:02
P122:17:02
HD091651 (6240 c/s)
HD097913 (2998 c/s)
Slew
beta=64.5S
Acq
4 in LWRS
Exp
006
007 008 009 010 011 012
001 002 003 004
005 006 007 008
009
H
H H H H H H
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H H H H
H
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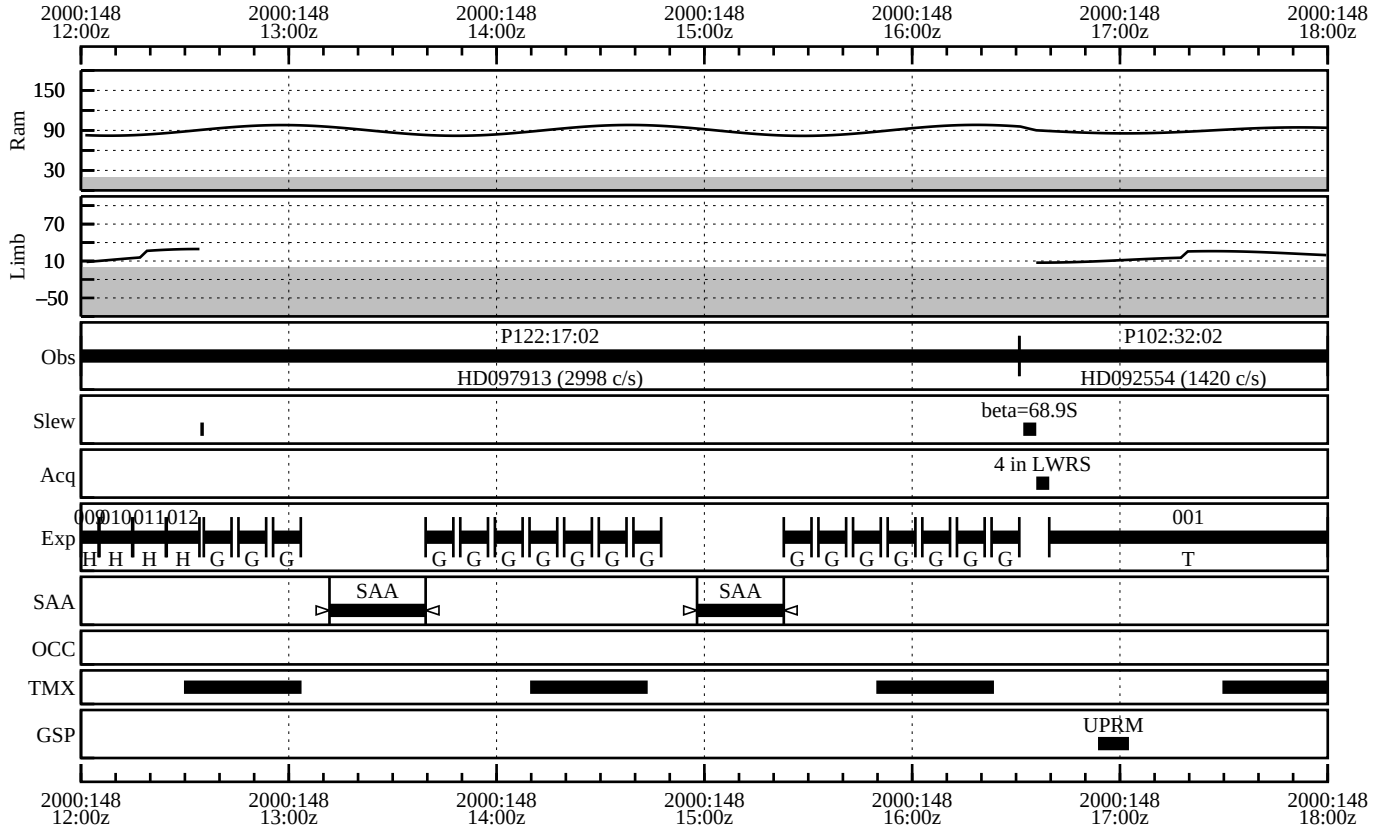
SAA
SAA
OCC
TMX
GSP
HAWAII
HAWAII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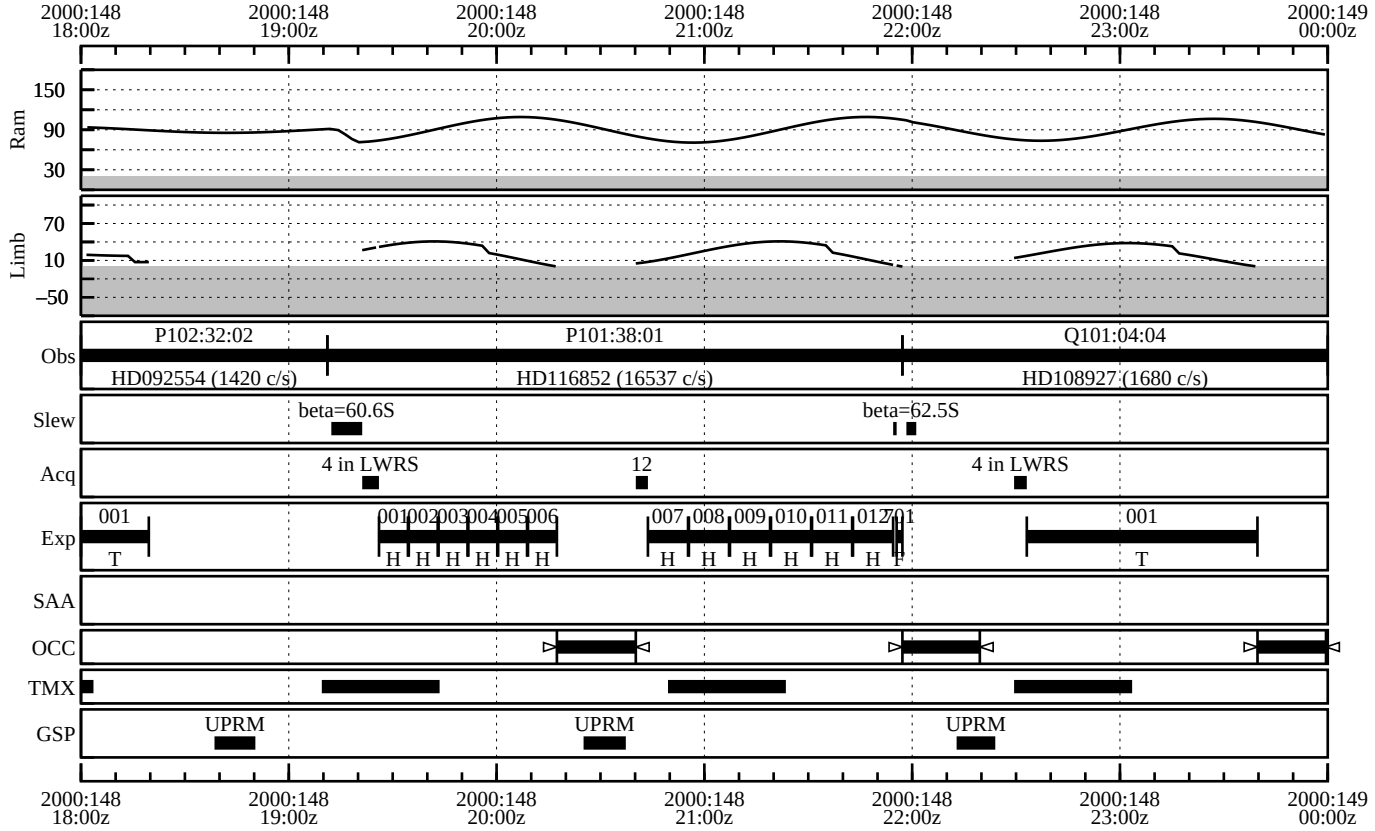
2000:148 17:00z
2000:148 18:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P122:17:02
P102:32:02
HD097913 (2998 c/s)
HD092554 (1420 c/s)
Slew
beta=68.9S
Acq
4 in LWRS
Exp
009010011012
001
H H H H G G G
G G G G G G G
G G G G G G G
T
SAA
SAA
SAA
OCC
TMX
GSP
UPRM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2000:149 00:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P102:32:02
P101:38:01
Q101:04:04
HD092554 (1420 c/s)
HD116852 (16537 c/s)
HD108927 (1680 c/s)
Slew
beta=60.6S
beta=62.5S
Acq
4 in LWRS
12
4 in LWRS
Exp
001
001002003004005006
007 008 009 010 011 012 701
001
T
H H H H H H
H H H H H H F
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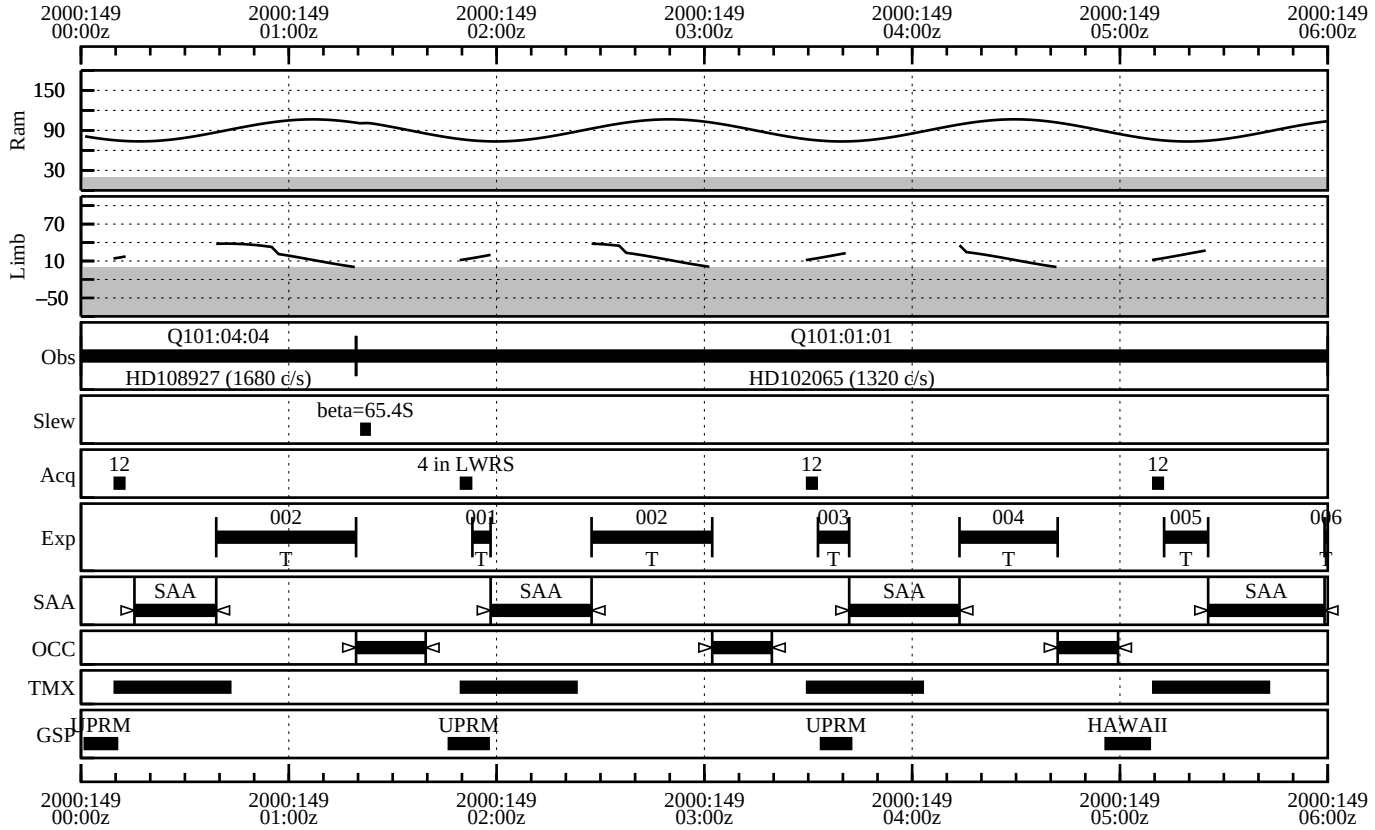
OCC
TMX
GSP
UPRM
UPRM
UPRM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2000:149 04:00z
2000:149 05:00z
2000:149 06:00z
Ram
150
90
30
Limb
70
10
–50
Obs
Q101:04:04
Q101:01:01
HD108927 (1680 c/s)
HD102065 (1320 c/s)
Slew
beta=65.4S
Acq
12
4 in LWRS
12
12
Exp
002
001
002
003
004
005
006
T
T
T
T
T
T
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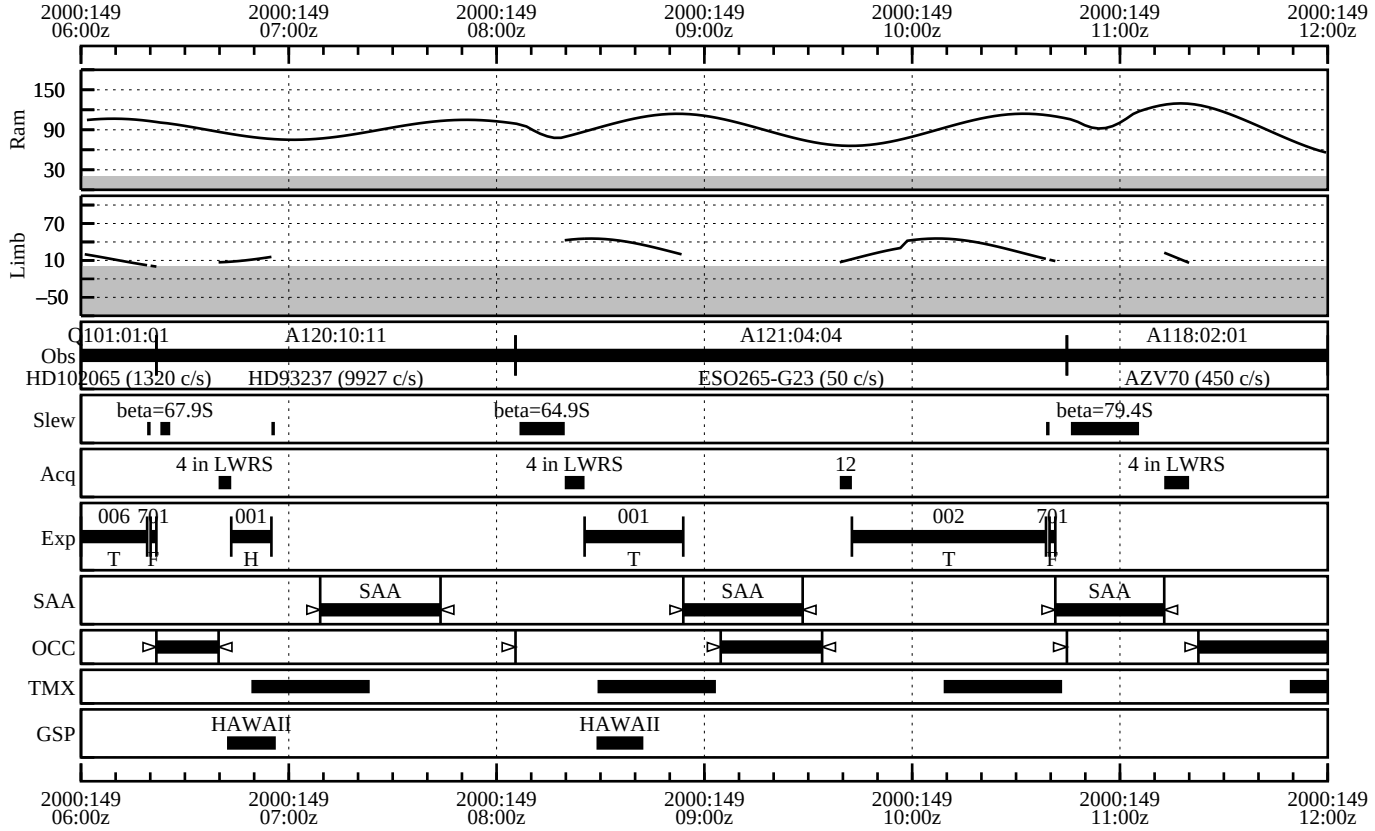
SAA
SAA
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM
UPRM
HAWAII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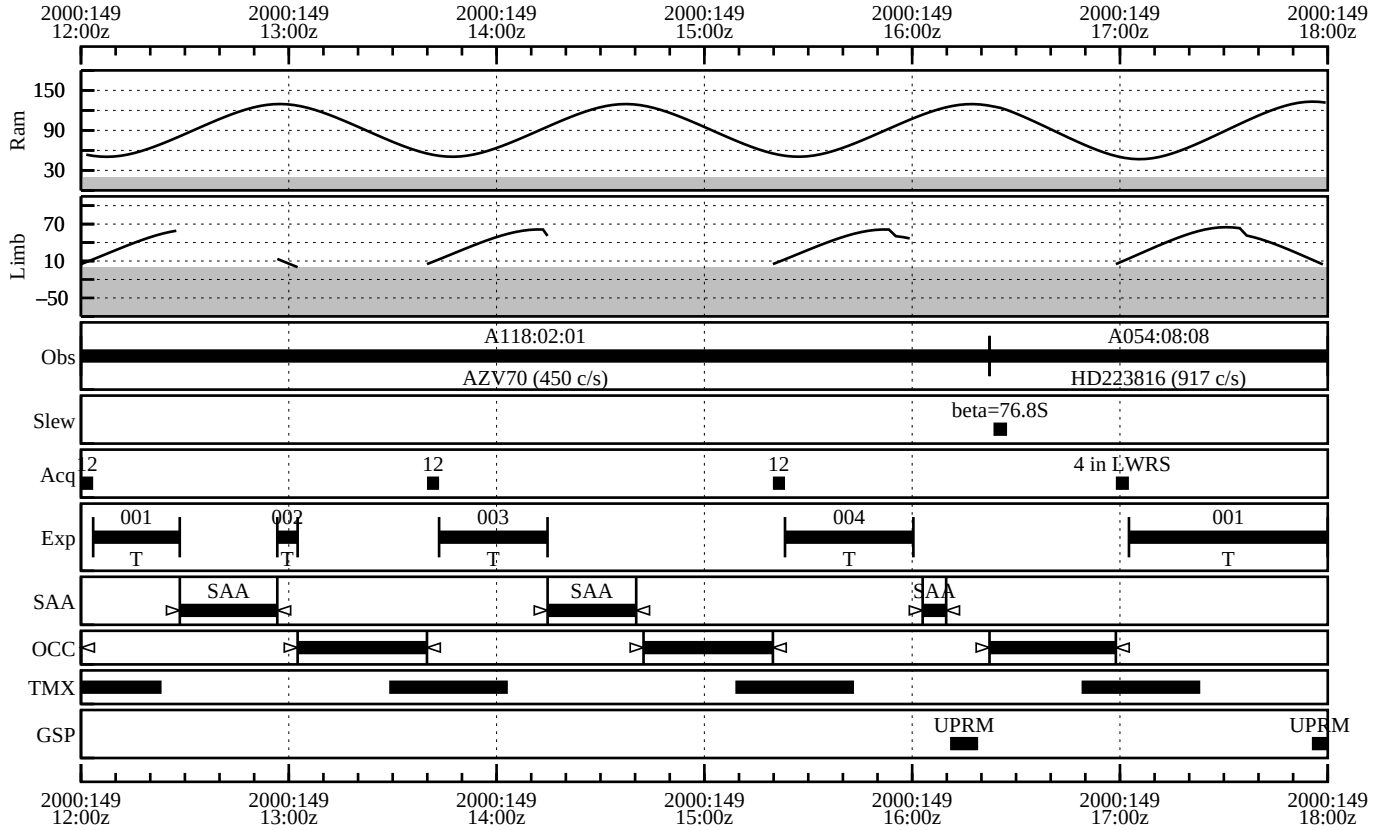
2000:149 10:00z
2000:149 11:00z
2000:149 12:00z
Ram
150
90
30
Limb
70
10
–50
Obs
Q101:01:01
A120:10:11
A121:04:04
A118:02:01
HD102065 (1320 c/s)
HD93237 (9927 c/s)
ESO265-G23 (50 c/s)
AZV70 (450 c/s)
Slew
beta=67.9S
beta=64.9S
beta=79.4S
Acq
4 in LWRS
4 in LWRS
12
4 in LWRS
Exp
006
701
001
001
002
701
T
F
H
T
T
F
SAA
SAA
SAA
SAA
OCC
TMX
GSP
HAWAII
HAWAII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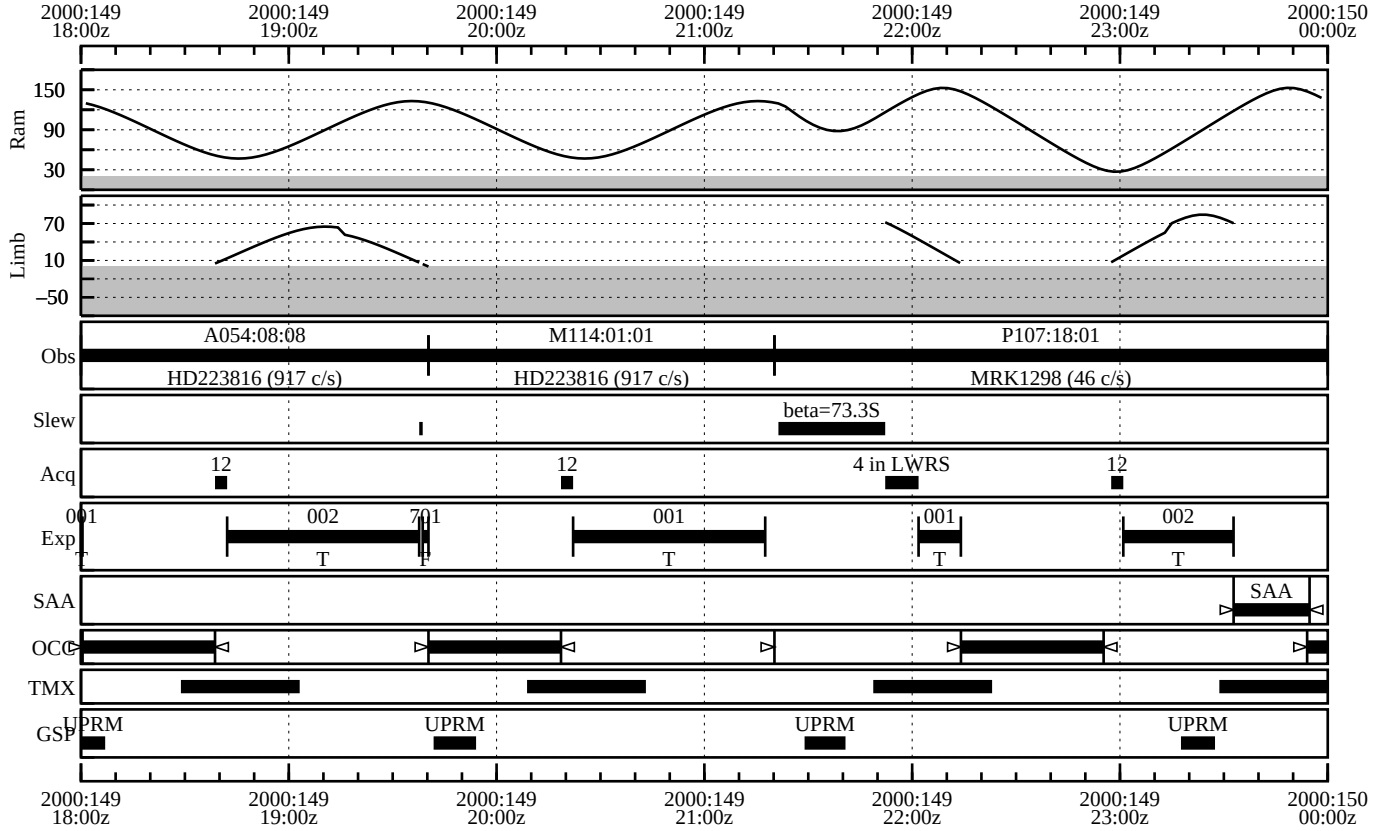
2000:149 17:00z
2000:149 18:00z
Ram
150
90
30
Limb
70
10
–50
Obs
A118:02:01
A054:08:08
AZV70 (450 c/s)
HD223816 (917 c/s)
Slew
beta=76.8S
Acq
12
12
12
4 in LWRS
Exp
001
002
003
004
001
T
SAA
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM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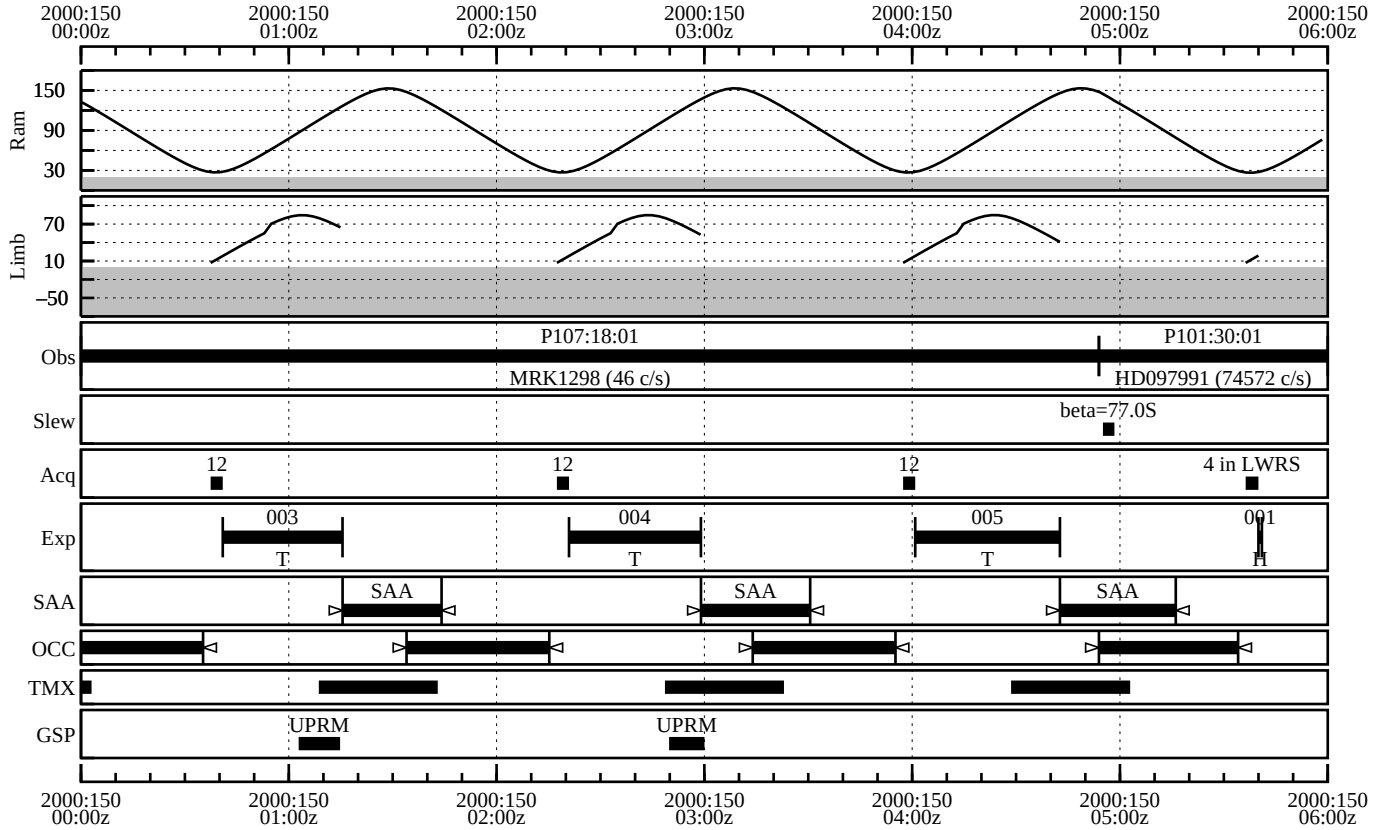
2000:149 23:00z
2000:150 00:00z
Ram
150
90
30
Limb
70
10
–50
Obs
A054:08:08
M114:01:01
P107:18:01
HD223816 (917 c/s)
HD223816 (917 c/s)
MRK1298 (46 c/s)
Slew
beta=73.3S
Acq
12
12
4 in LWRS
12
Exp
001
002
701
001
001
002
T
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM
UPRM
UPRM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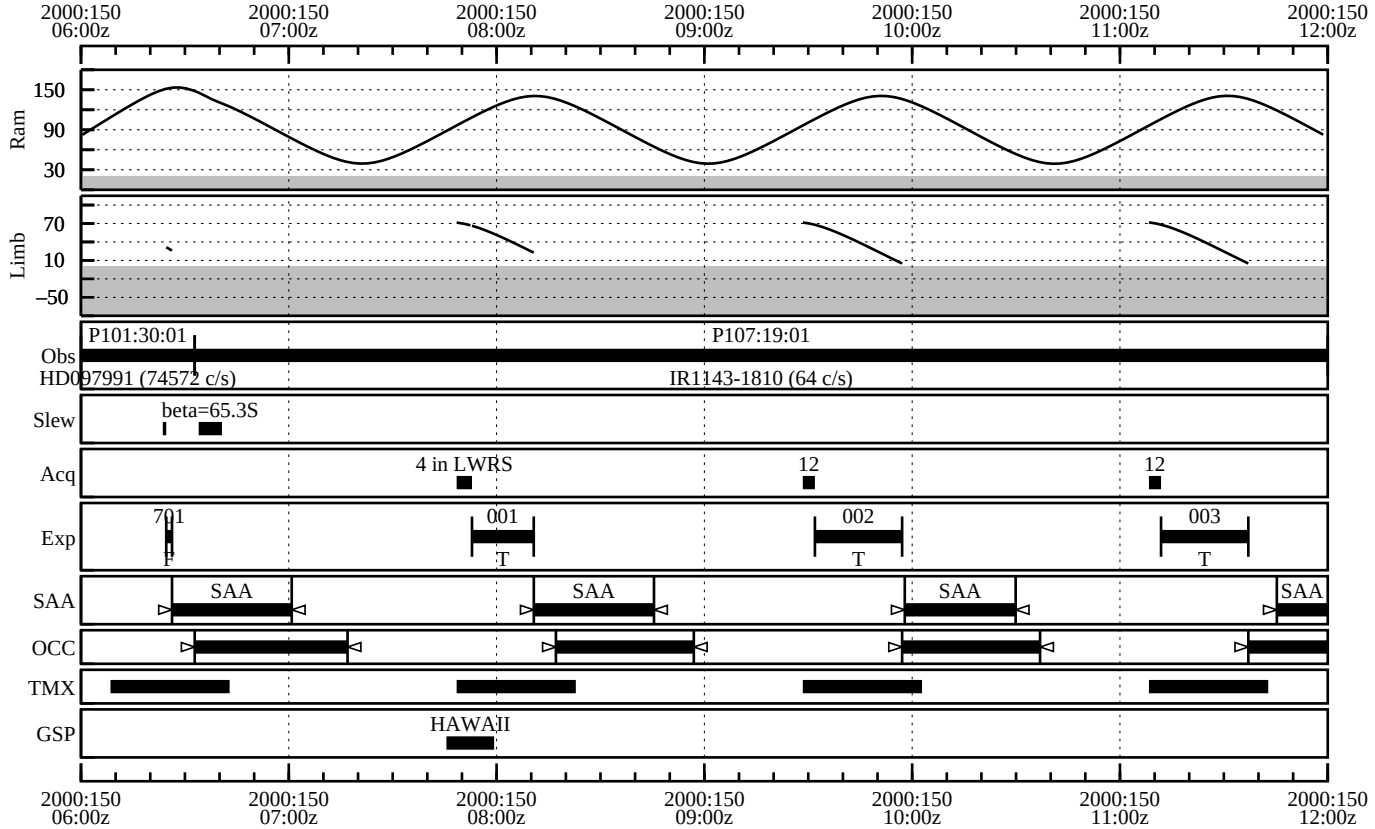
2000:150 05:00z
2000:150 06:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P107:18:01
P101:30:01
MRK1298 (46 c/s)
HD097991 (74572 c/s)
Slew
beta=77.0S
Acq
12
12
12
4 in LWRS
Exp
003
004
005
001
T
T
T
H
SAA
SAA
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM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2000:150 11:00z
2000:150 12:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P101:30:01
P107:19:01
HD097991 (74572 c/s)
IR1143-1810 (64 c/s)
Slew
beta=65.3S
Acq
4 in LWRS
12
12
Exp
701
001
002
003
H
T
T
T
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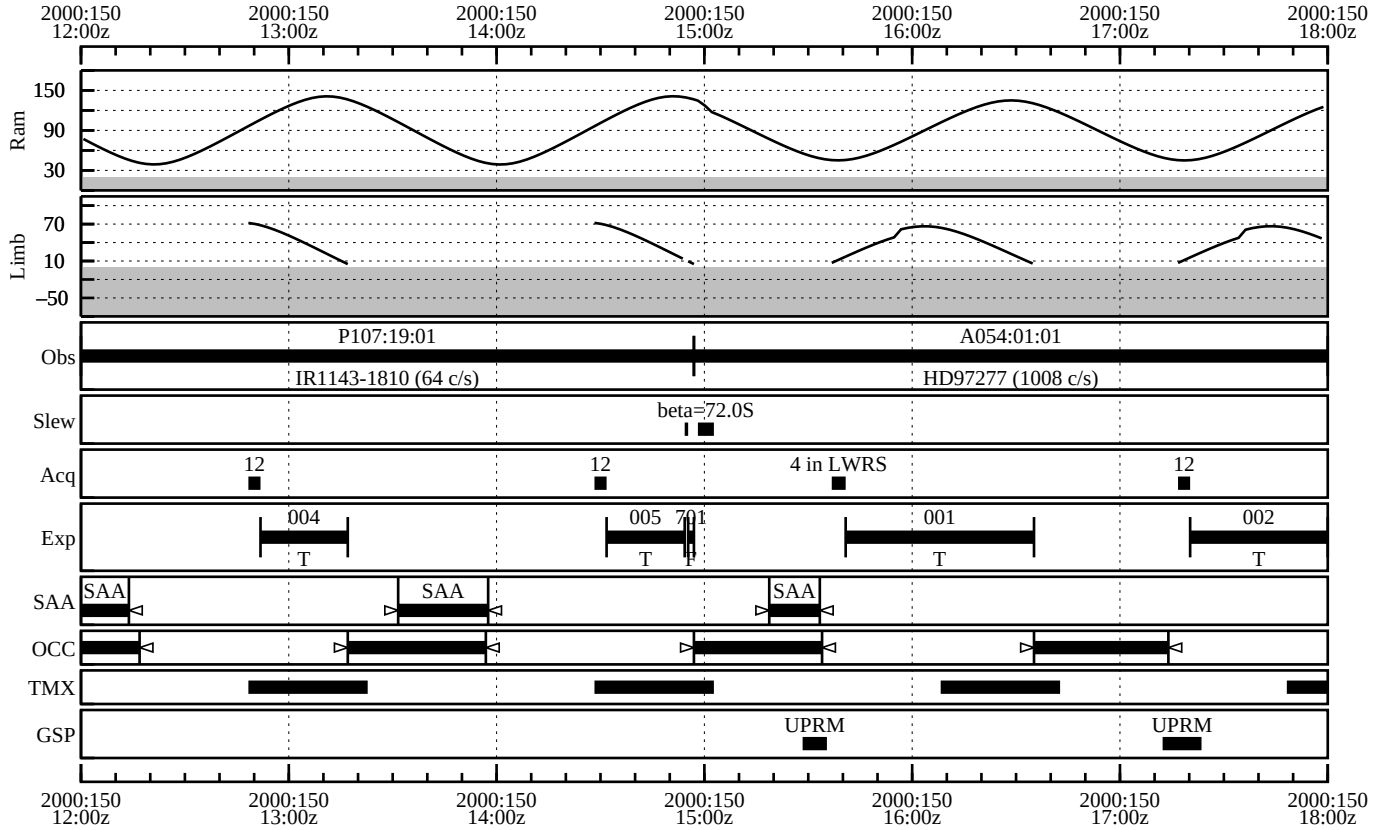
SAA
SAA
SAA
OCC
TMX
GSP
HAWAII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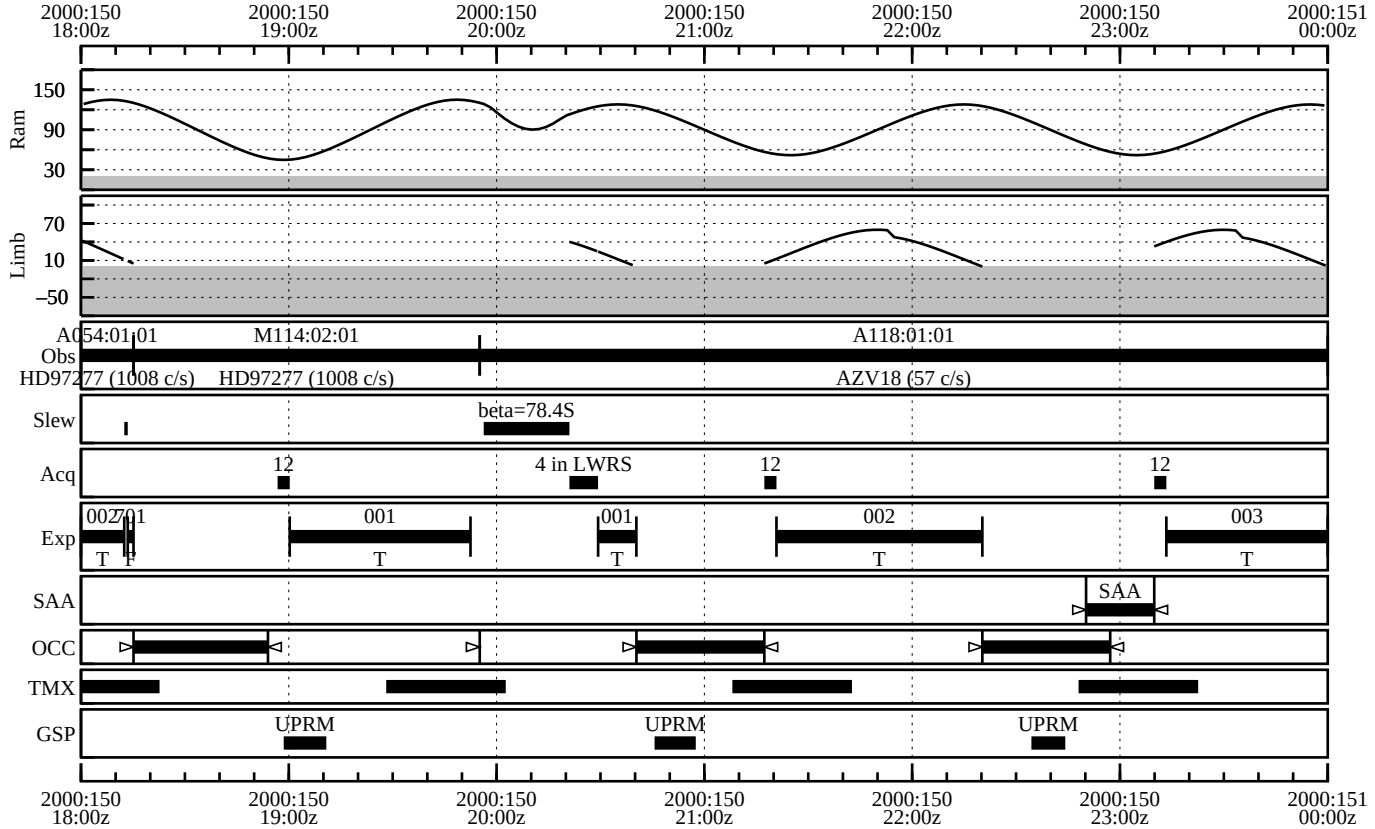
2000:150 17:00z
2000:150 18:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P107:19:01
A054:01:01
IR1143-1810 (64 c/s)
HD97277 (1008 c/s)
Slew
beta=72.0S
Acq
12
12
4 in LWRS
12
Exp
004
T
005
T
701
T
001
T
002
T
SAA
SAA
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM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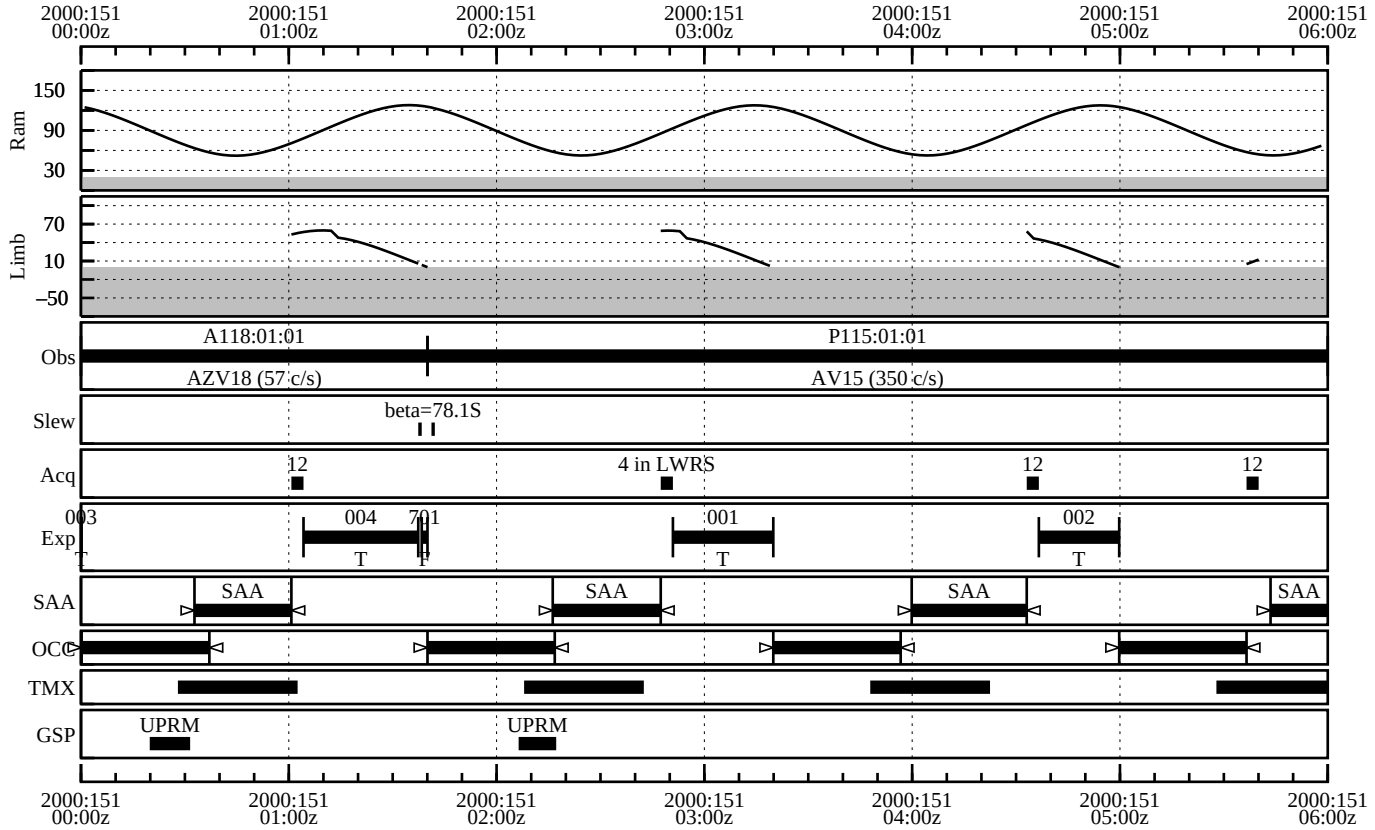
2000:150 23:00z
2000:151 00:00z
Ram
150
90
30
Limb
70
10
–50
Obs
A054:01:01
M114:02:01
A118:01:01
HD97277 (1008 c/s)
HD97277 (1008 c/s)
AZV18 (57 c/s)
Slew
beta=78.4S
Acq
12
4 in LWRS
12
12
Exp
002
T
701
T
001
T
001
T
002
T
003
T
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM
UPRM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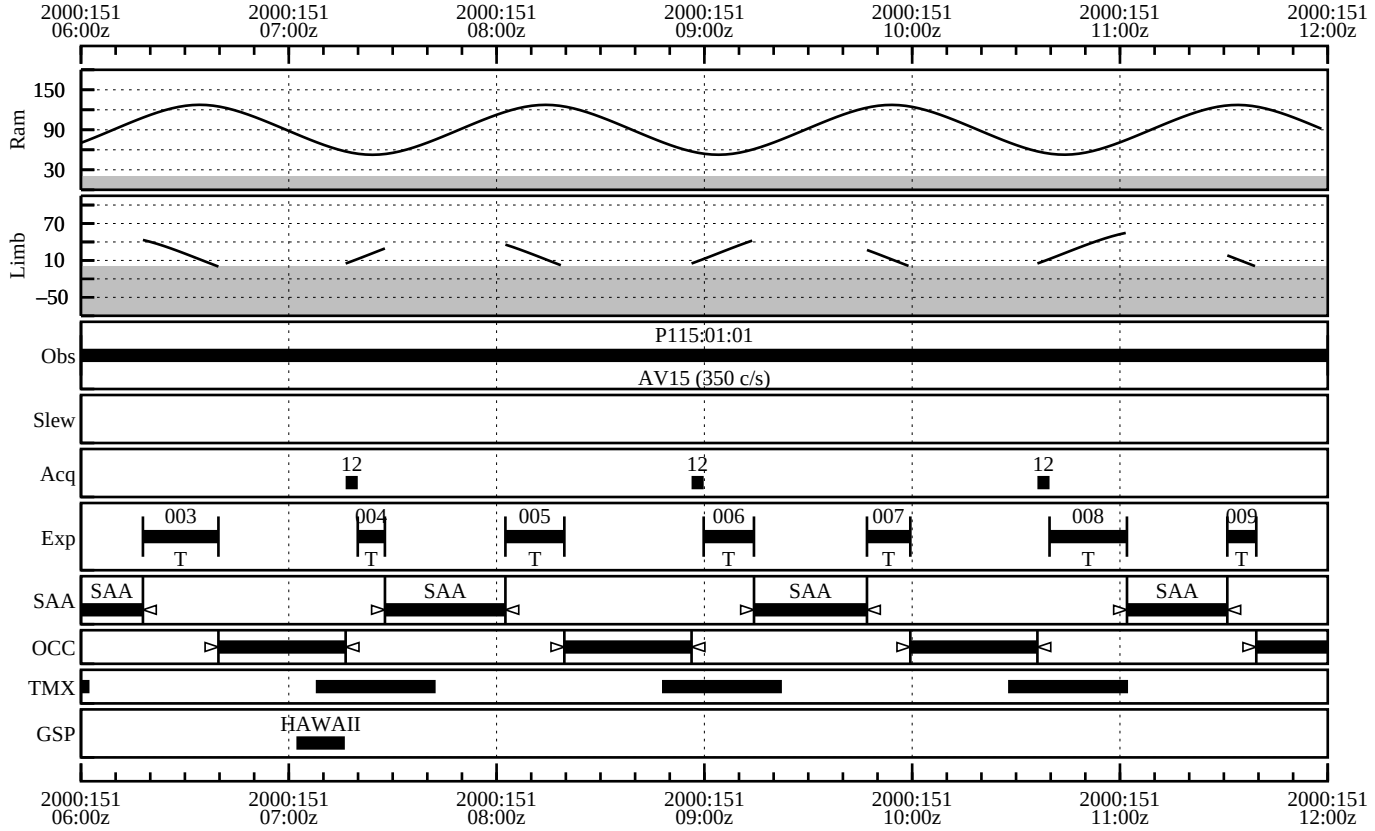
2000:151 04:00z
2000:151 05:00z
2000:151 06:00z
Ram
150
90
30
Limb
70
10
–50
Obs
A118:01:01
P115:01:01
AZV18 (57 c/s)
AV15 (350 c/s)
Slew
beta=78.1S
Acq
12
4 in LWRS
12
12
Exp
003
004
701
001
002
T
SAA
OCC
TMX
GSP
UPRM
UPRM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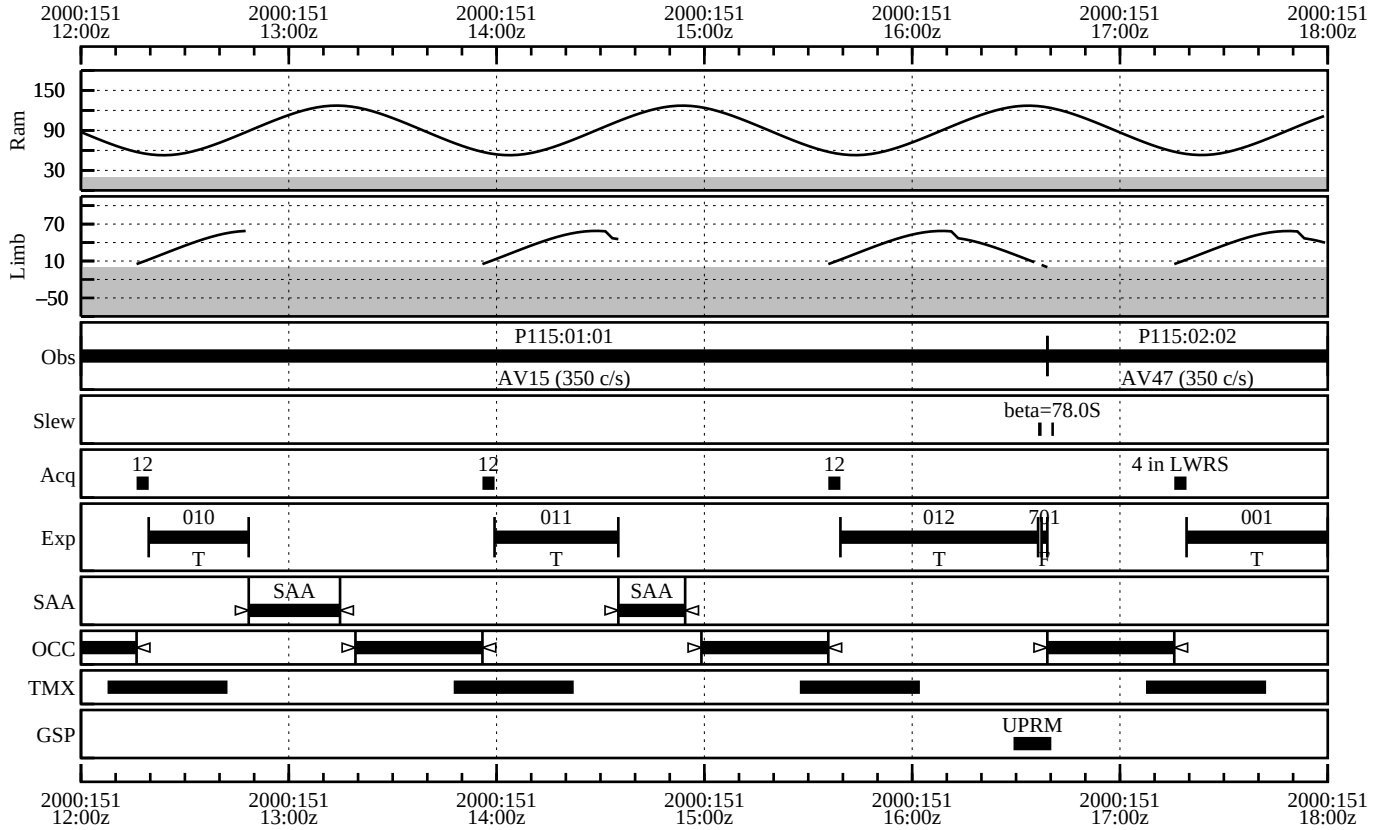
2000:151 11:00z
2000:151 12:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:01:01
AV15 (350 c/s)
Slew
Acq
12
12
12
Exp
003
004
005
006
007
008
009
T
SAA
OCC
TMX
GSP
HAWAII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2000:151 17:00z
2000:151 18:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:01:01
P115:02:02
AV15 (350 c/s)
AV47 (350 c/s)
Slew
beta=78.0S
Acq
12
12
12
4 in LWRS
Exp
010
011
012
701
001
T
T
T
T
T
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SAA
SAA
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TMX
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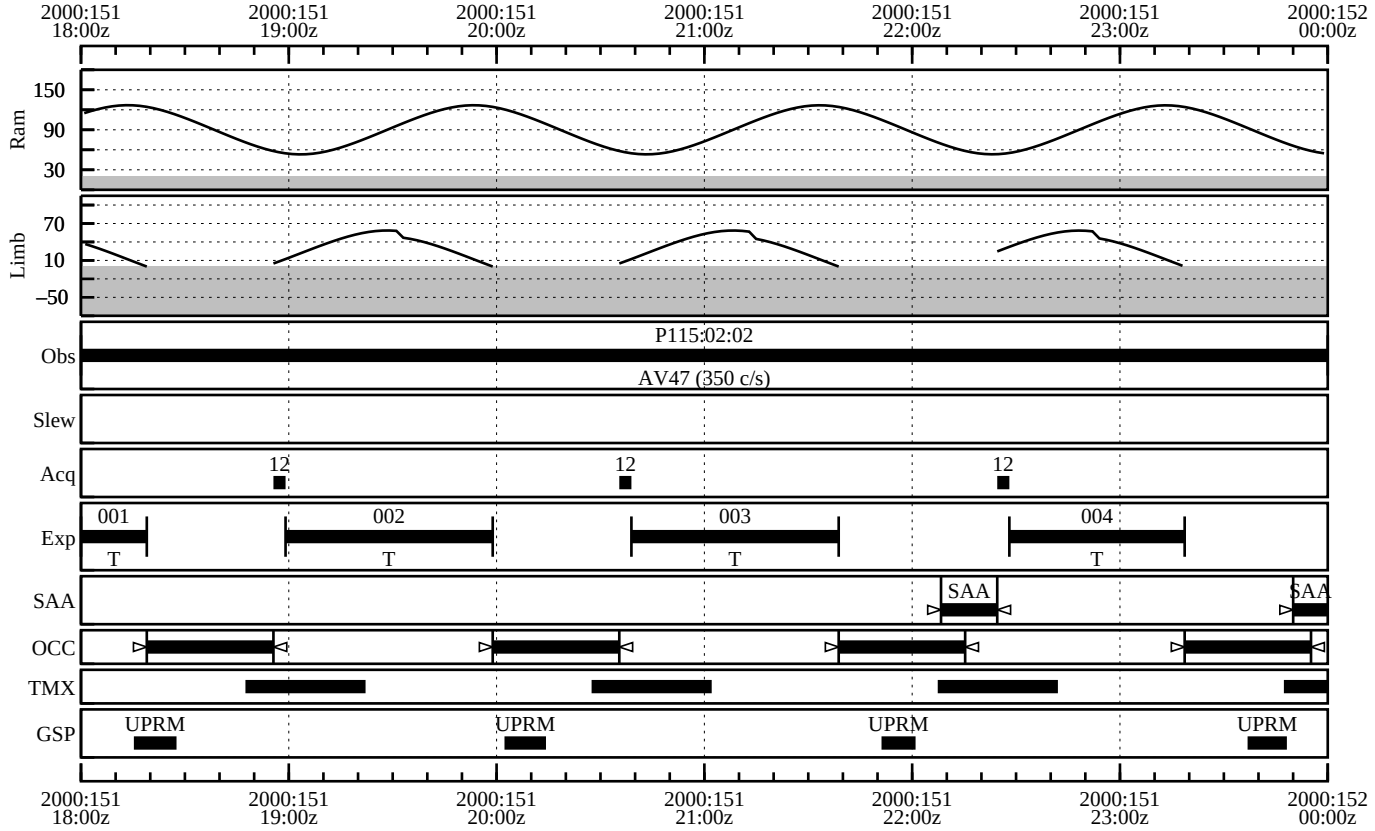
UPRM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2000:151 23:00z
2000:152 00:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:02:02
AV47 (350 c/s)
Slew
Acq
12
12
12
Exp
001
002
003
004
T
T
T
T
SAA
SAA
SAA
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GSP
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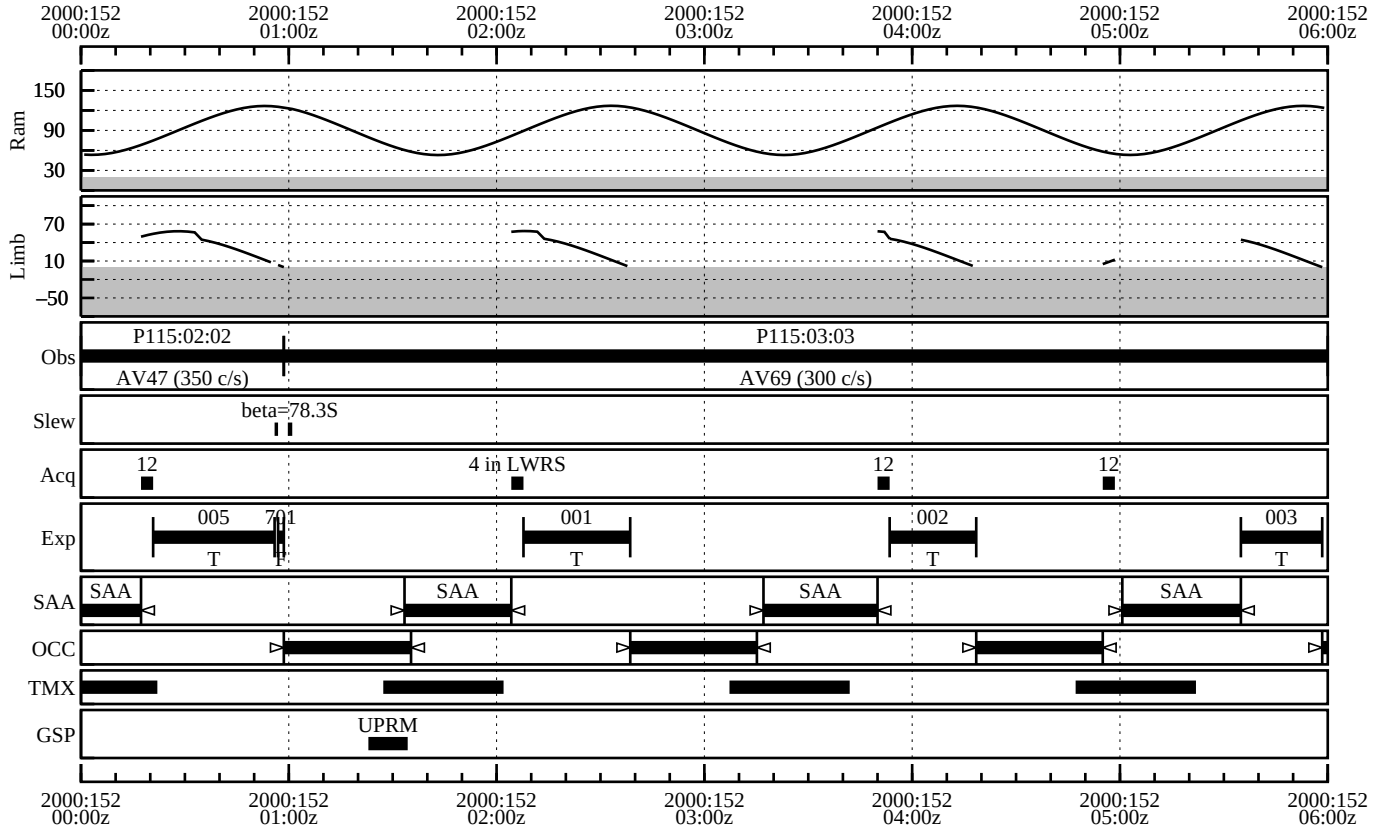
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2000:152 05:00z
2000:152 06:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:02:02
P115:03:03
AV47 (350 c/s)
AV69 (300 c/s)
Slew
beta=78.3S
Acq
12
4 in LWRS
12
12
Exp
005
701
001
002
003
T
T
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T
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SAA
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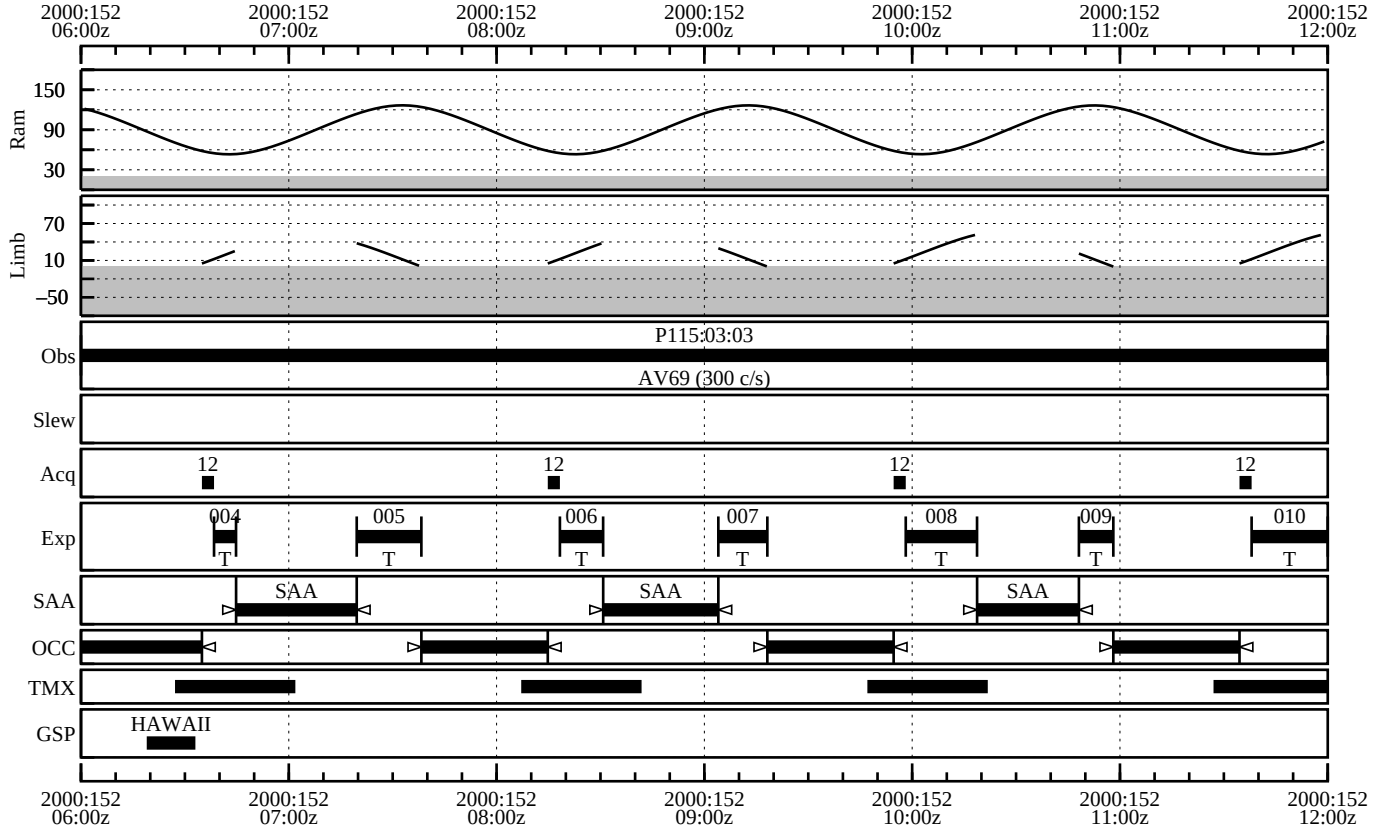
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2000:152 10:00z
2000:152 11:00z
2000:152 12:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:03:03
AV69 (300 c/s)
Slew
Acq
12
12
12
12
Exp
004
005
006
007
008
009
010
T
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T
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T
T
T
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SAA
SAA
SAA
OCC
TMX
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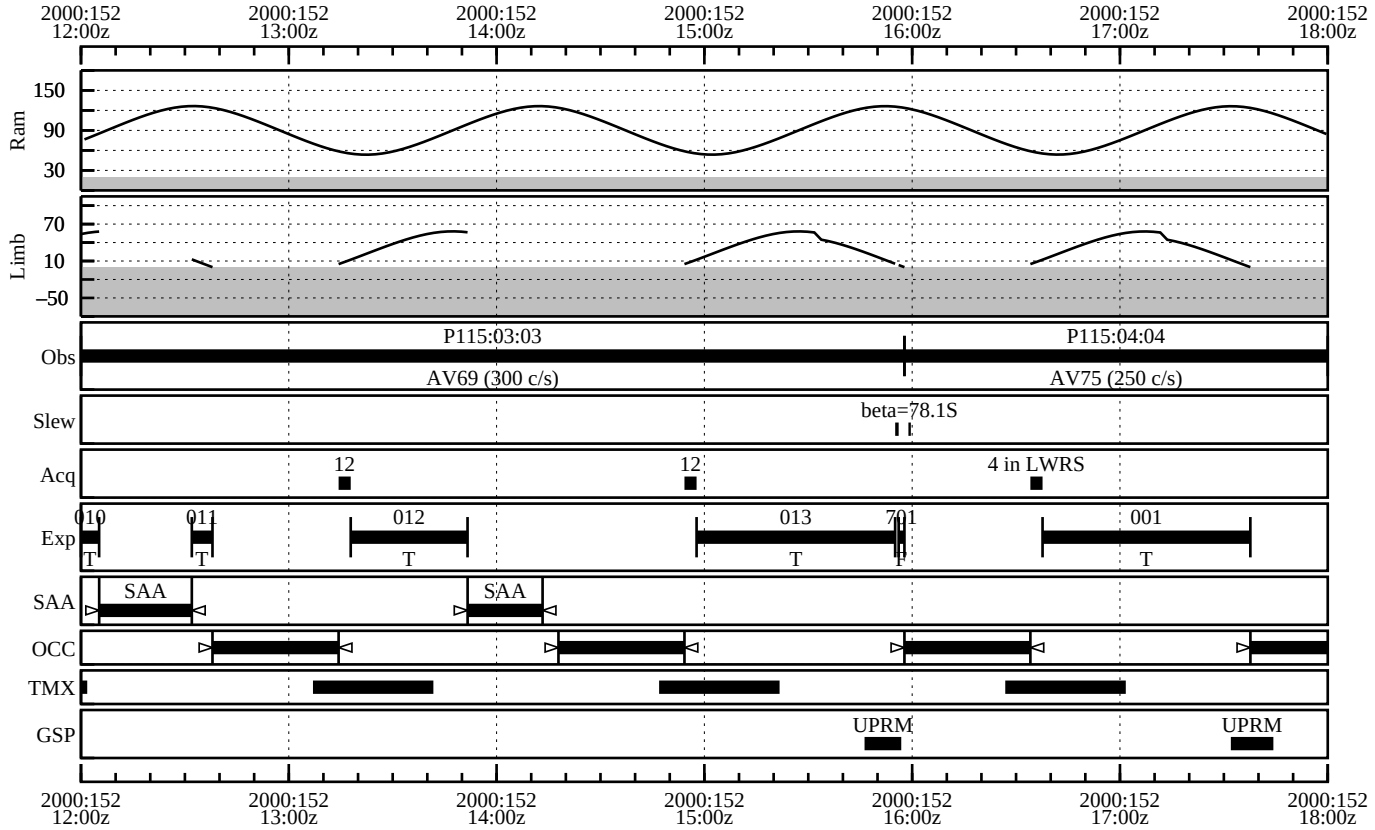
HAWAII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2000:152 16:00z
2000:152 17:00z
2000:152 18:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:03:03
P115:04:04
AV69 (300 c/s)
AV75 (250 c/s)
Slew
beta=78.1S
Acq
12
12
4 in LWRS
Exp
010
011
012
013
701
001
T
T
T
T
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T
SAA
SAA
SAA
OCC
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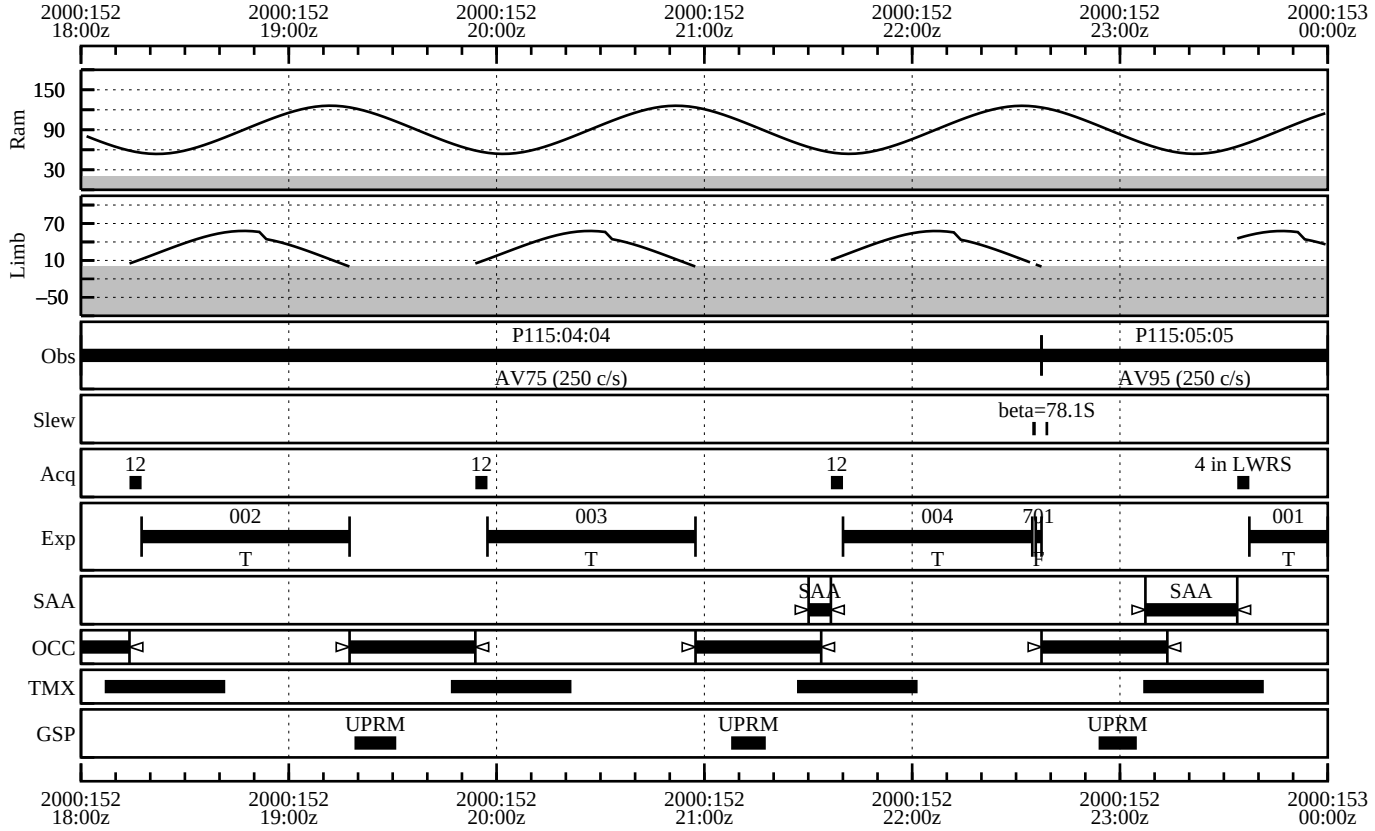
GSP
UPRM
UPRM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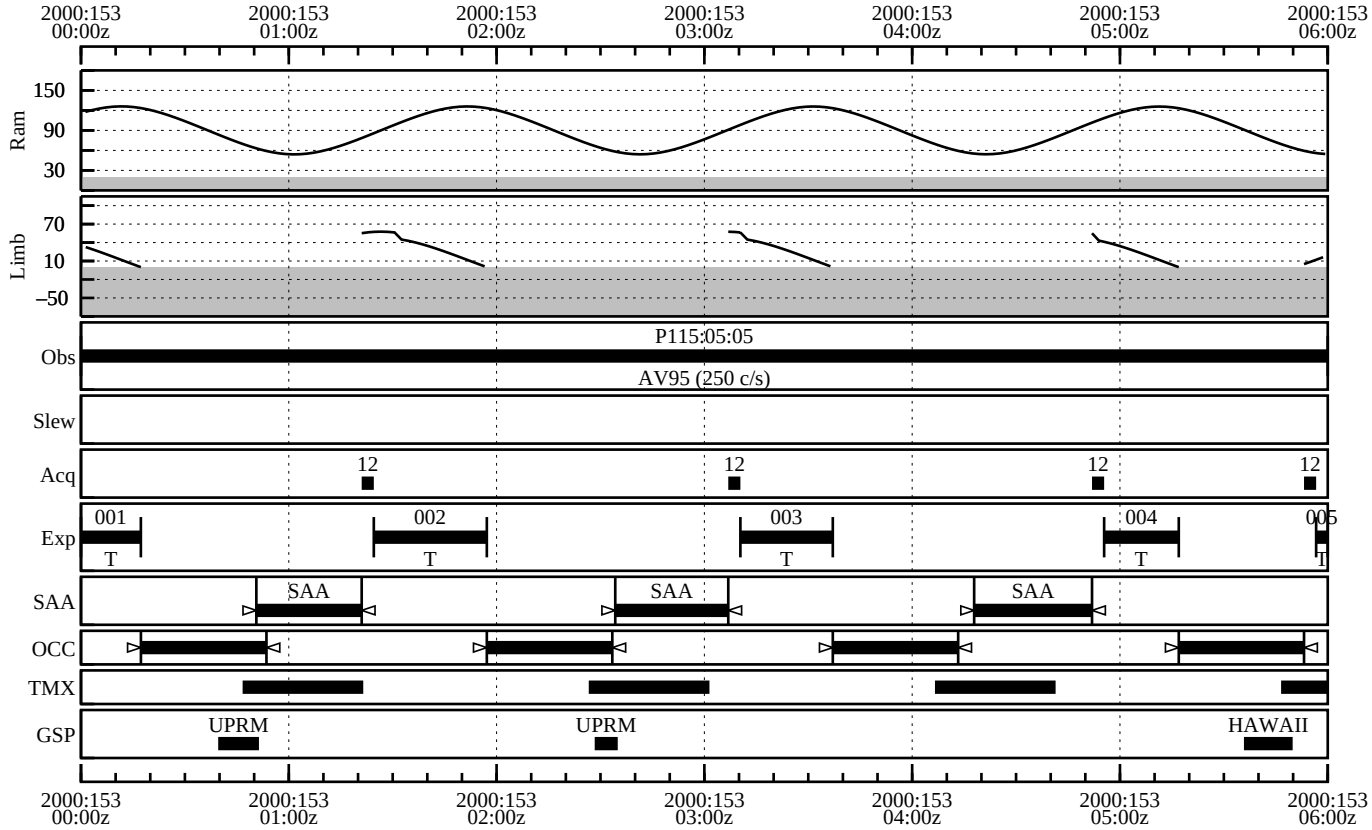
2000:152 19:00z
2000:152 20:00z
2000:152 21:00z
2000:152 22:00z
2000:152 23:00z
2000:153 00:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:04:04
P115:05:05
AV75 (250 c/s)
AV95 (250 c/s)
Slew
beta=78.1S
Acq
12
12
12
4 in LWRS
Exp
002
003
004
701
001
T
T
T
T
T
SAA
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM
UPRM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2000:153 01:00z
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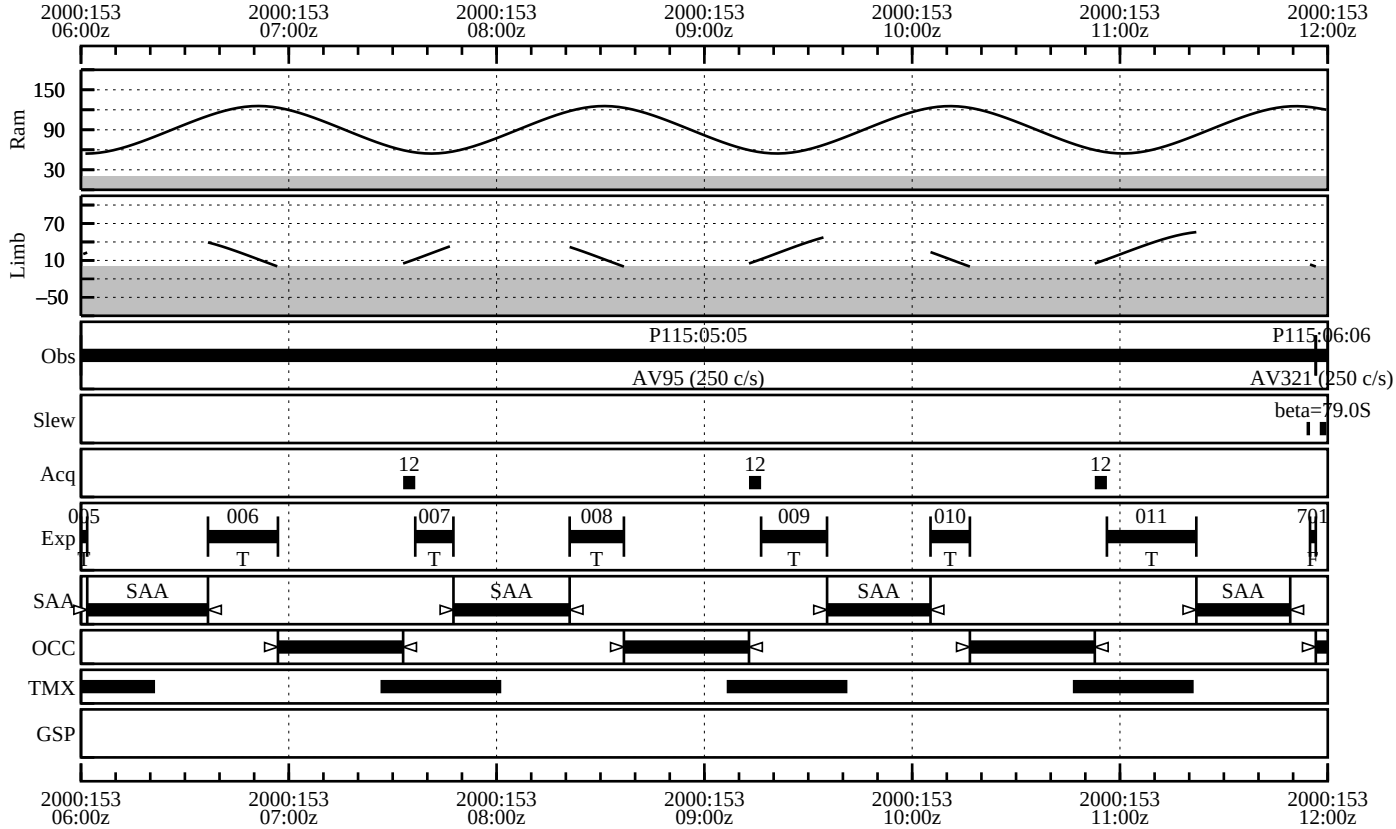
2000:153 04:00z
2000:153 05:00z
2000:153 06:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:05:05
AV95 (250 c/s)
Slew
Acq
12
12
12
12
Exp
001
002
003
004
005
T
T
T
T
T
SAA
SAA
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM
HAWAII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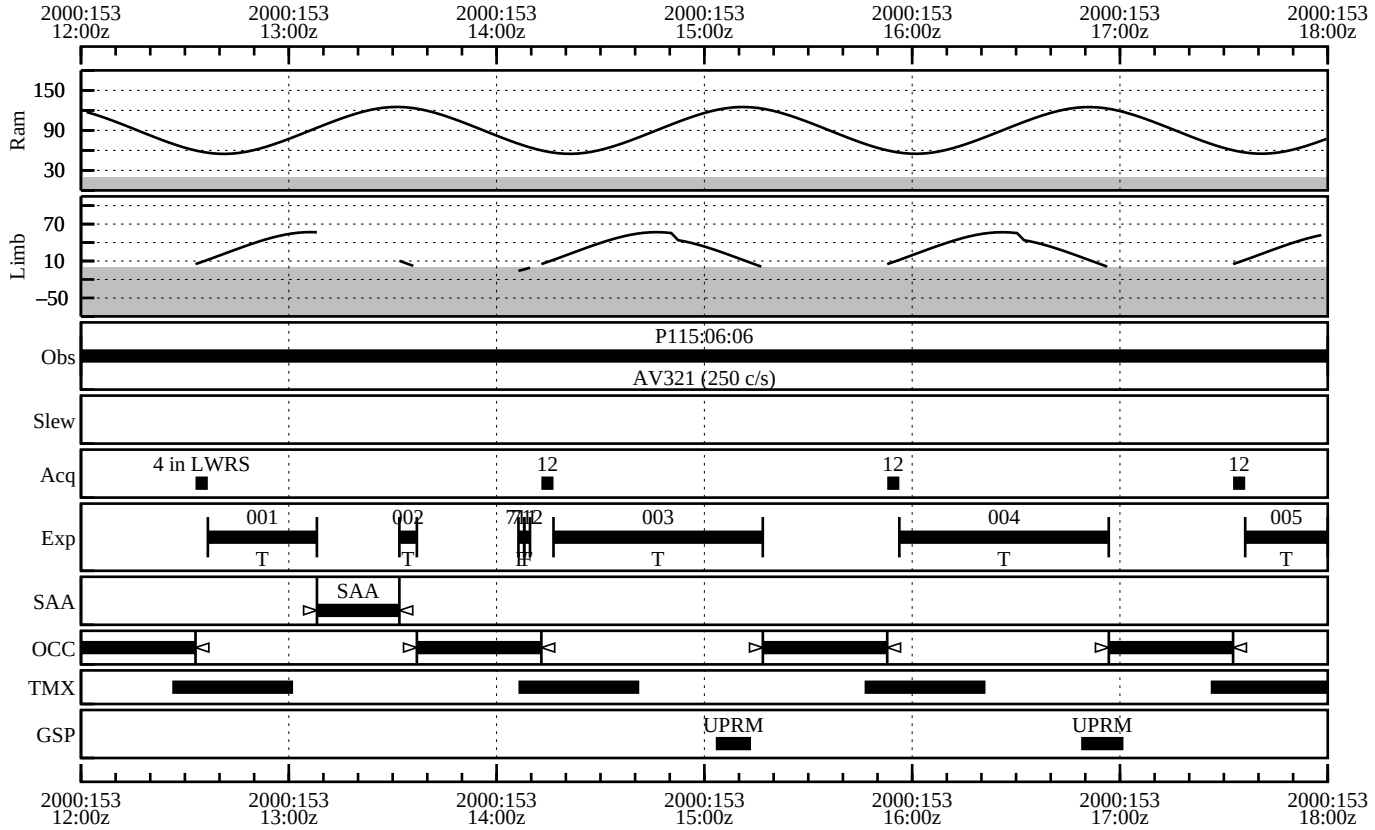
2000:153 12:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:05:05
P115:06:06
AV95 (250 c/s)
AV321 (250 c/s)
Slew
beta=79.0S
Acq
12
12
12
Exp
005
006
007
008
009
010
011
701
F
T
T
T
T
T
T
F
SAA
SAA
SAA
SAA
OCC
TMX
GSP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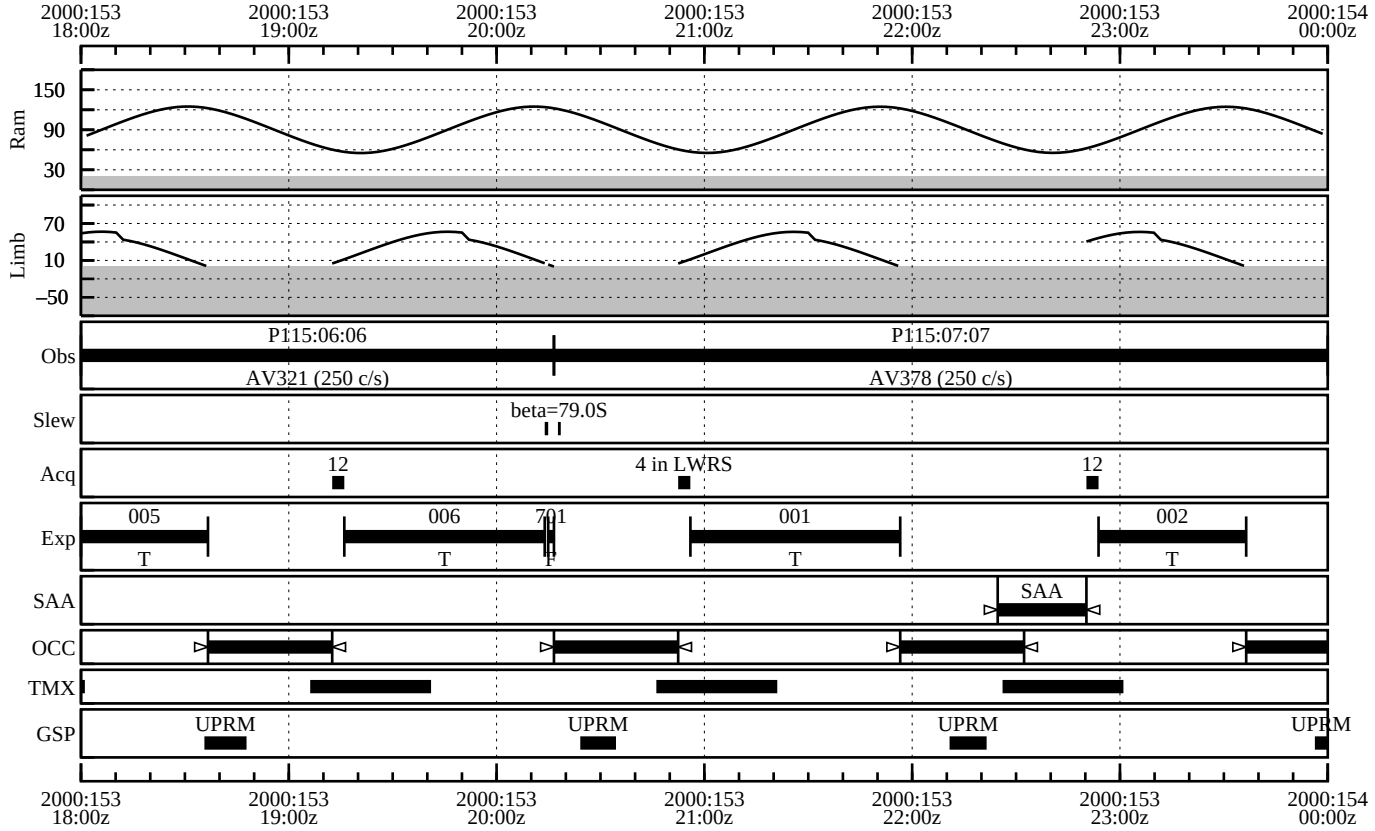
2000:153 16:00z
2000:153 17:00z
2000:153 18:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:06:06
AV321 (250 c/s)
Slew
Acq
4 in LWRS
12
12
12
Exp
001
002
702
003
004
005
T
T
F
T
T
T
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM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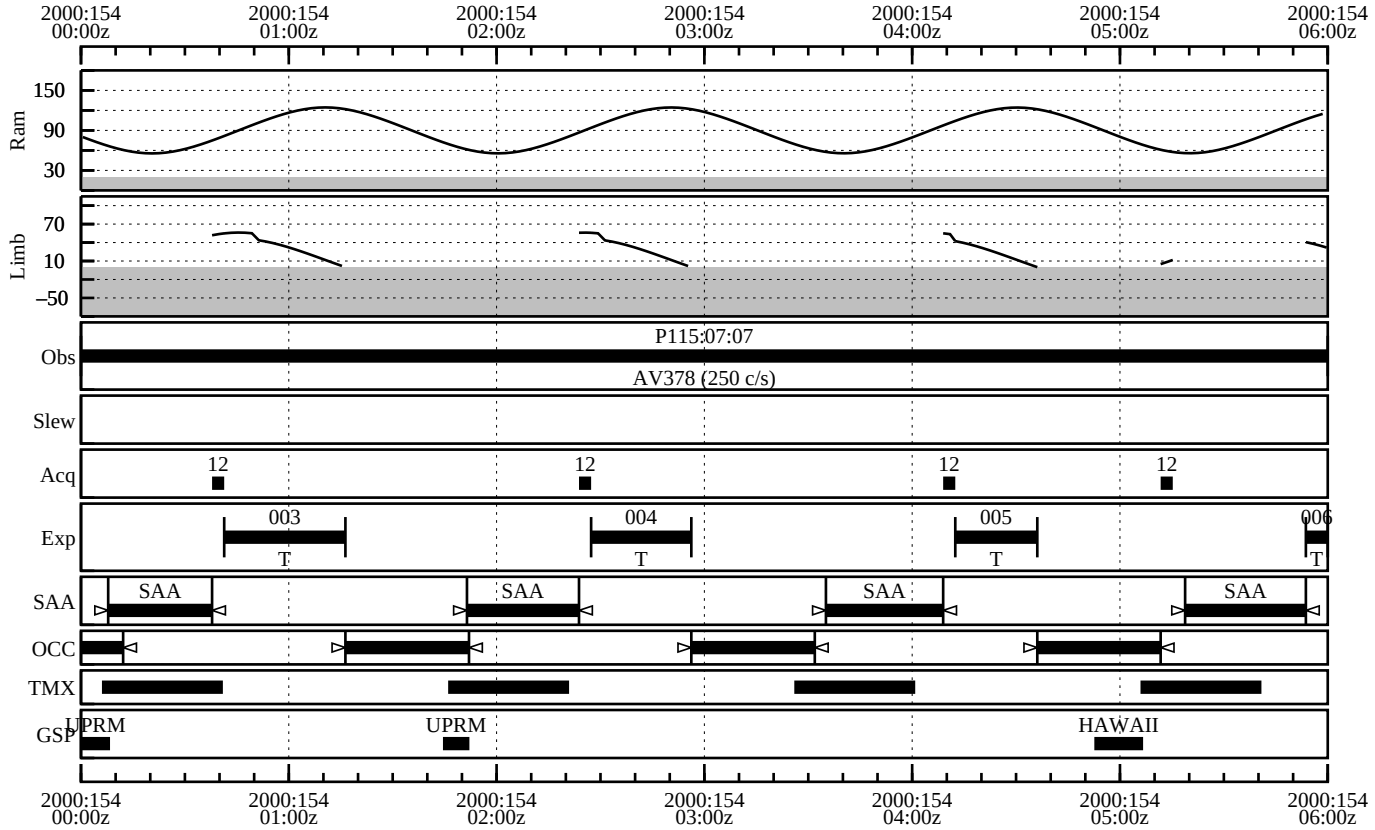
2000:153 22:00z
2000:153 23:00z
2000:154 00:00z
Ram
150
90
30
Limb
70
10
–50
Obs
P115:06:06
P115:07:07
AV321 (250 c/s)
AV378 (250 c/s)
Slew
beta=79.0S
Acq
12
4 in LWRS
12
Exp
005
006
701
001
002
T
T
F
T
T
SAA
SAA
OCC
TMX
GSP
UPRM
UPRM
UPRM
UPRM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2000:154 06:00z
Ram
150
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Limb
70
10
–50
Obs
P115:07:07
AV378 (250 c/s)
Slew
Acq
12
12
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12
Exp
003
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004
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SAA
SAA
SAA
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TMX
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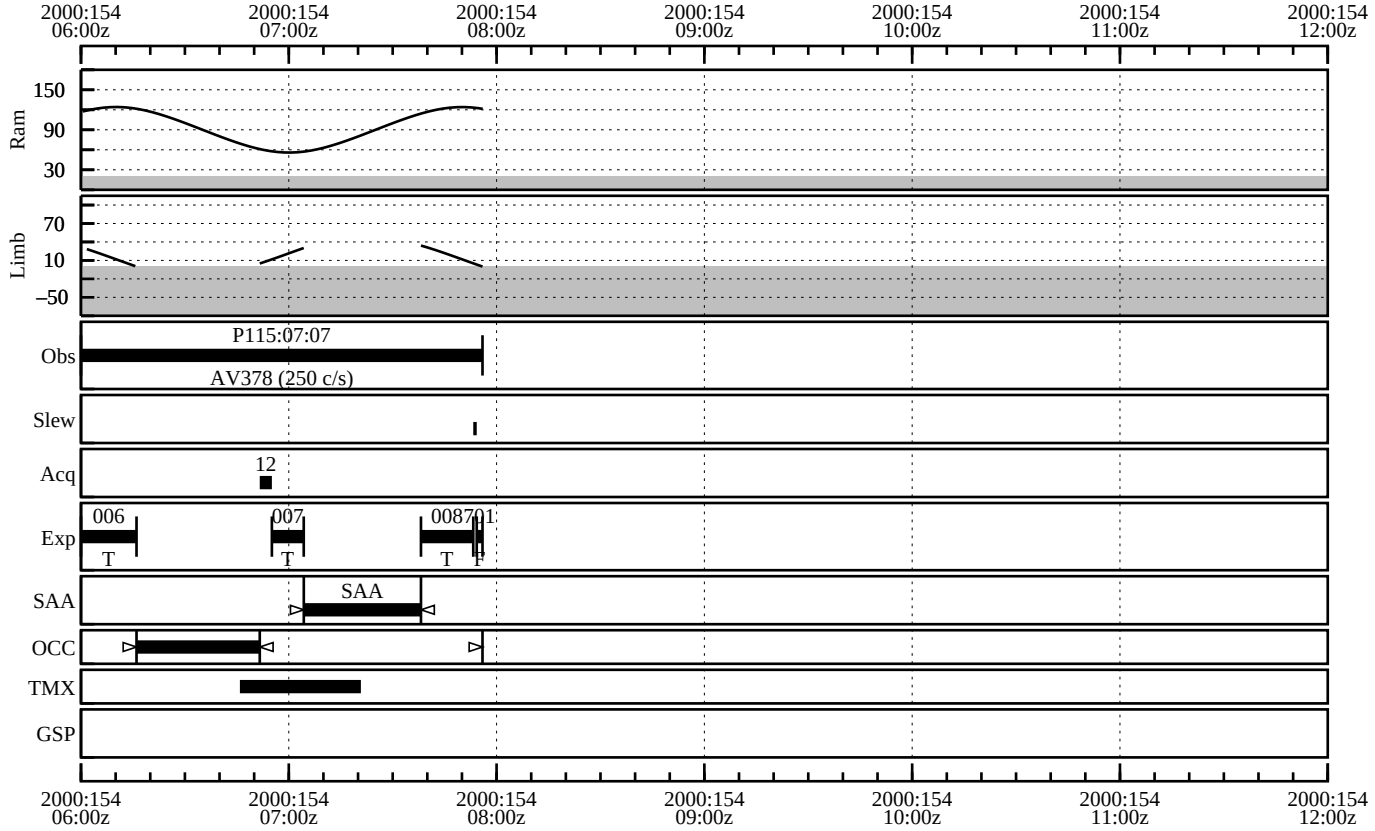
HAWAII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2000:154 12:00z
Ram
150
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30
Limb
70
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–50
Obs
P115:07:07
AV378 (250 c/s)
Slew
Acq
12
Exp
006
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007
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008701
T
F
SAA
SAA
OCC
TMX
GSP