The Flights of the ARA Cessna 404 *'Investigator 2'* during NAURU'99

APPENDIX 1: Quicklook Plots for 1 Second Averages

Jörg M. Hacker and David Pethick
October 1999

ARA Technical Report No. 9/1999

DRAFT VERSION 22 October 1999

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1 Quicklook Plots for Flight Patterns

For each pattern as listed in the Report's Section 5 (except fly-bys), two quicklook plots are shown in this Appendix.

The first plot shows the following parameters (top to bottom):

Parameter	Explanation
Ithdg	Aircraft true heading in ° from INS
Irll	Aircraft roll angle in ° from INS
Ipch	Aircraft pitch angle in ° from INS
zRAD	Aircraft flying altitude in meters above land or water from radar altimeter
PA	Pressure altitude in m
Td	Dew point temperature in °C from Meteolabor dew point mirror
tDF	Air temperature in °C from direct flow sensor
ff	Wind speed in m/s
dd	Wind direction in °true
wair	Vertical wind component in m/s
vair	W/E-wind component in m/s
uair	S/N-wind component in m/s

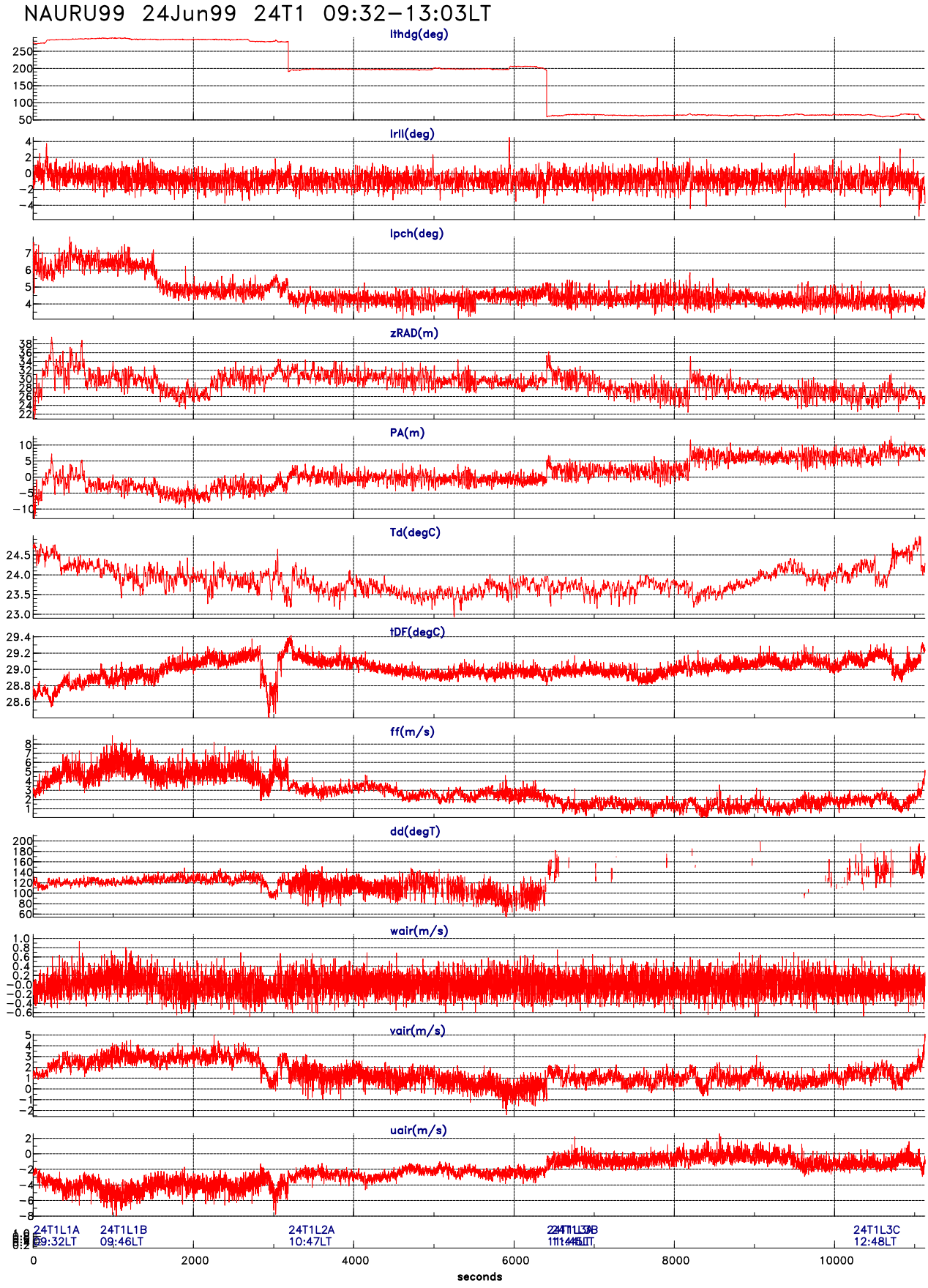
The second plot shows the following parameters (top to bottom):

Parameter	Explanation
Ithdg	Aircraft true heading in ° from INS
ps	Static (ambient) pressure in hPa
lw	Liquid water content in g/m^3 from CSIRO King Probe
rain	rain indicator
albedo	albedo
RNet	Net radiation in W/m^2
radQI	Radiation quality indicator in W/m^2
lOUT	Longwave outgoing radiation in W/m^2 from Eppley PIR
lIN	Longwave incoming radiation in W/m^2 from Eppley PIR
sOUT	Shortwave outgoing radiation in W/m^2 from Eppley PSP
sIN	Shortwave incoming radiation in W/m^2 from Eppley PSP
SST1	Sea surface temperature in °C from Heimann KT15

For further details about these parameters, refer to the Report's Sections 4.2 and 4.3 .

For ascents and descents flown near the research vessels during the *Big Triangle* Pattern, a third plot is shown with some relevant parameters (tDF, Td, lw, dd,ff) plotted vs. pressure altitude (PA).

To show as much information as possible, all plots were deliberately generated using automatic scaling between minimum and maximum of the individual parameters. This, however, sometimes leads to the 'over-emphasis' of changes in the plots.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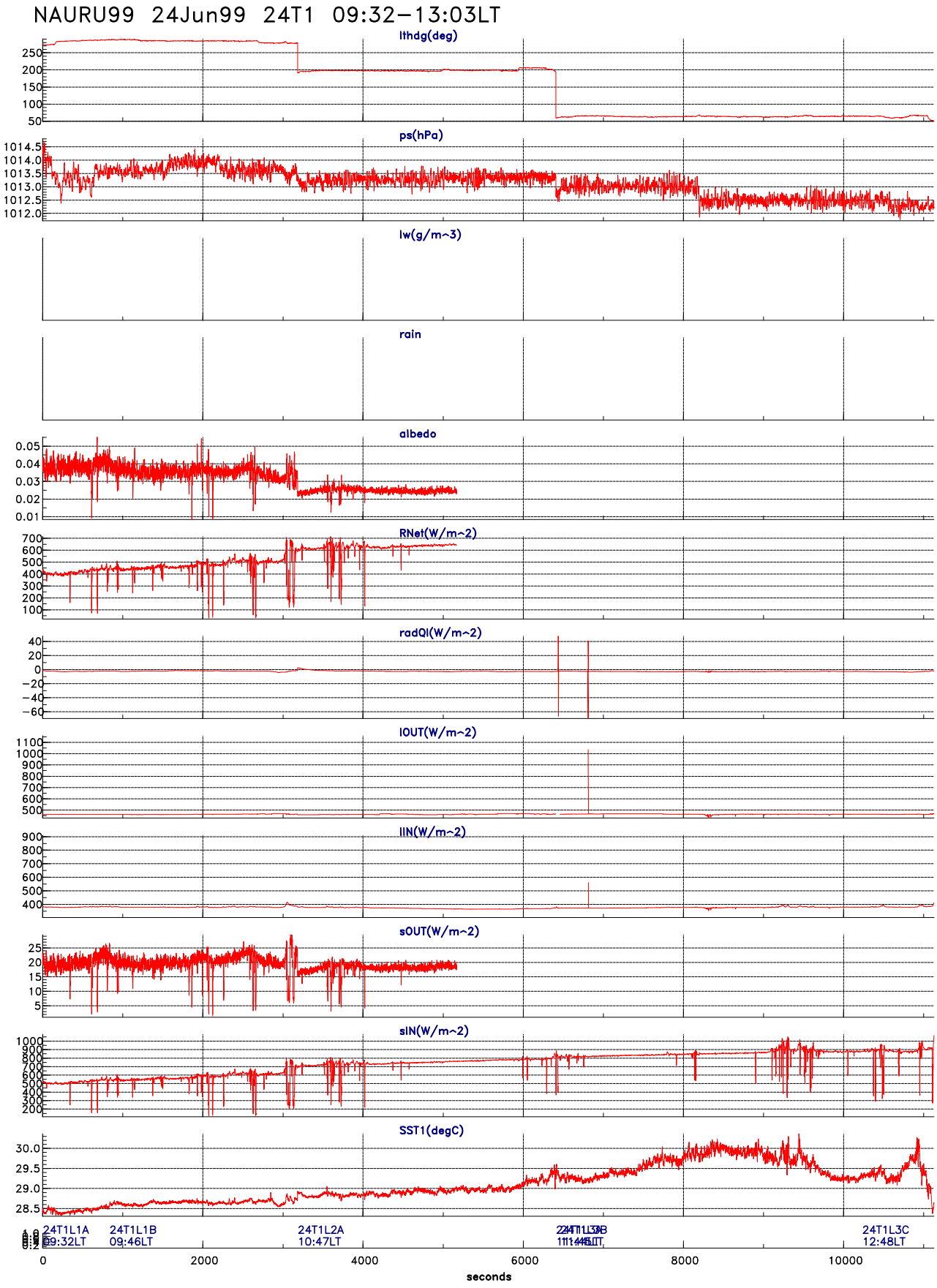
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
24T1L1A
09:32LT
24T1L1B
09:46LT
24T1L2A
10:47LT
24T1L3C
12:48LT
0
2000
4000
6000
8000
10000
seconds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lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
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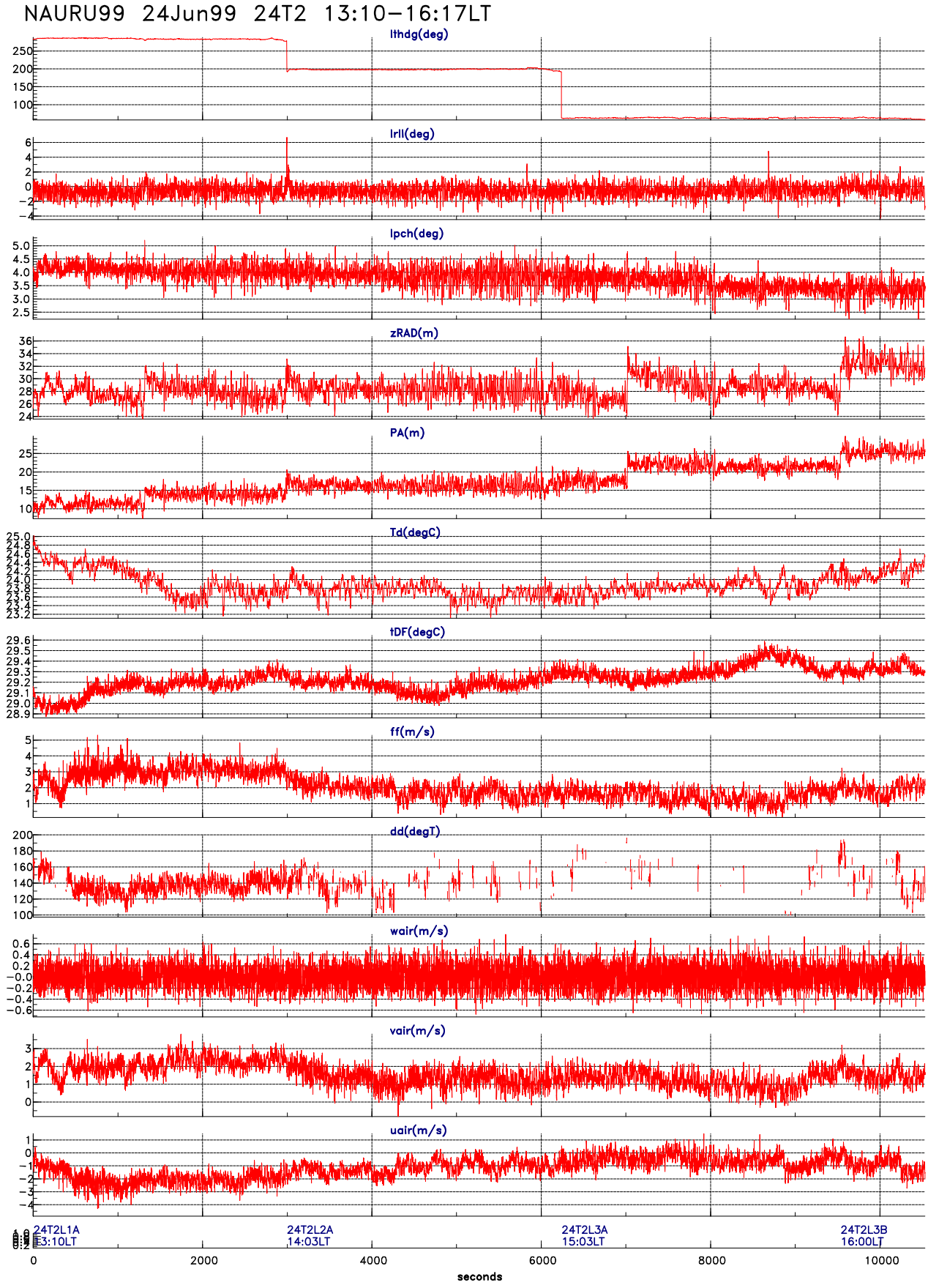
24T1L1B
09:46LT
24T1L2A
10:47LT
24T1L3C
12:48LT
seconds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lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
24T2L1A 13:10LT
24T2L2A 14:03LT
24T2L3A 15:03LT
24T2L3B 16:00LT
0
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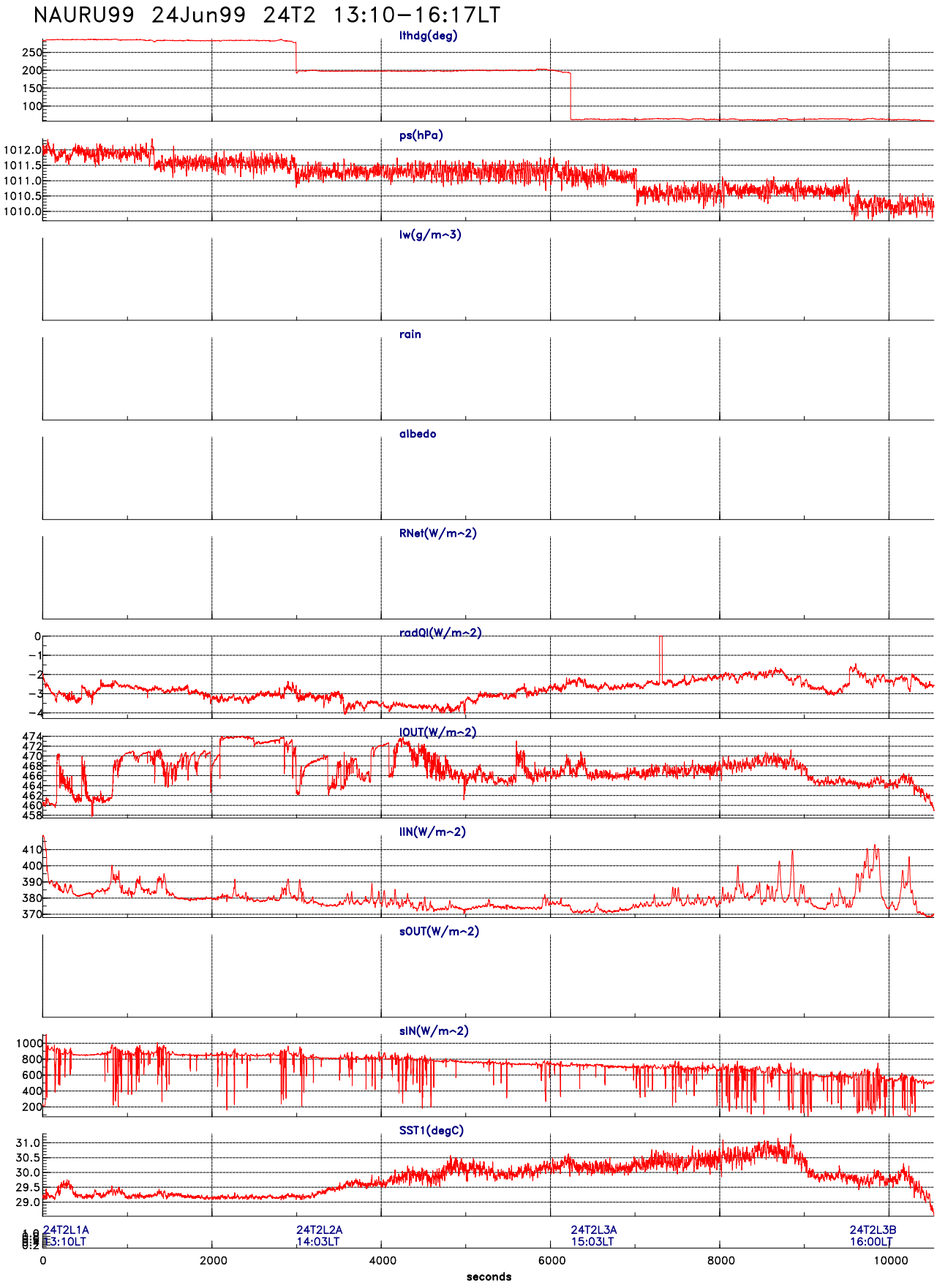
4000
6000
8000
10000
seconds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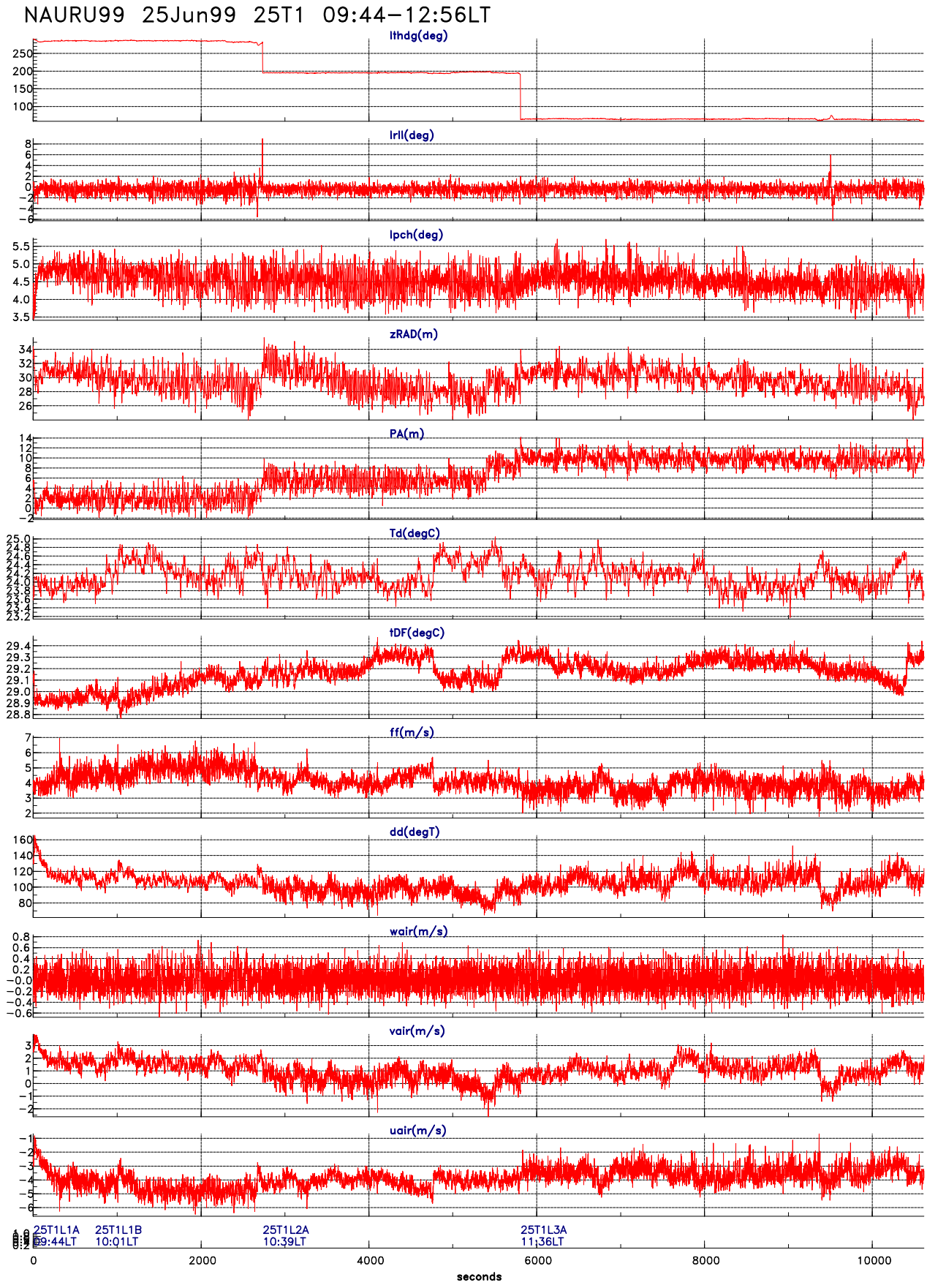
250
200
150
100
ps(hPa)
1012.0
1011.5
1011.0
1010.5
1010.0
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
0
−1
−2
−3
−4
lOUT(W/m~2)
474
472
470
468
466
464
462
460
458
lIN(W/m~2)
410
400
390
380
370
sOUT(W/m~2)
sIN(W/m~2)
1000
800
600
400
200
SST1(degC)
31.0
30.5
30.0
29.5
29.0
24T2L1A
13:10LT
24T2L2A
14:03LT
24T2L3A
15:03LT
24T2L3B
16:00LT
0
2000
4000
6000
8000
10000
seconds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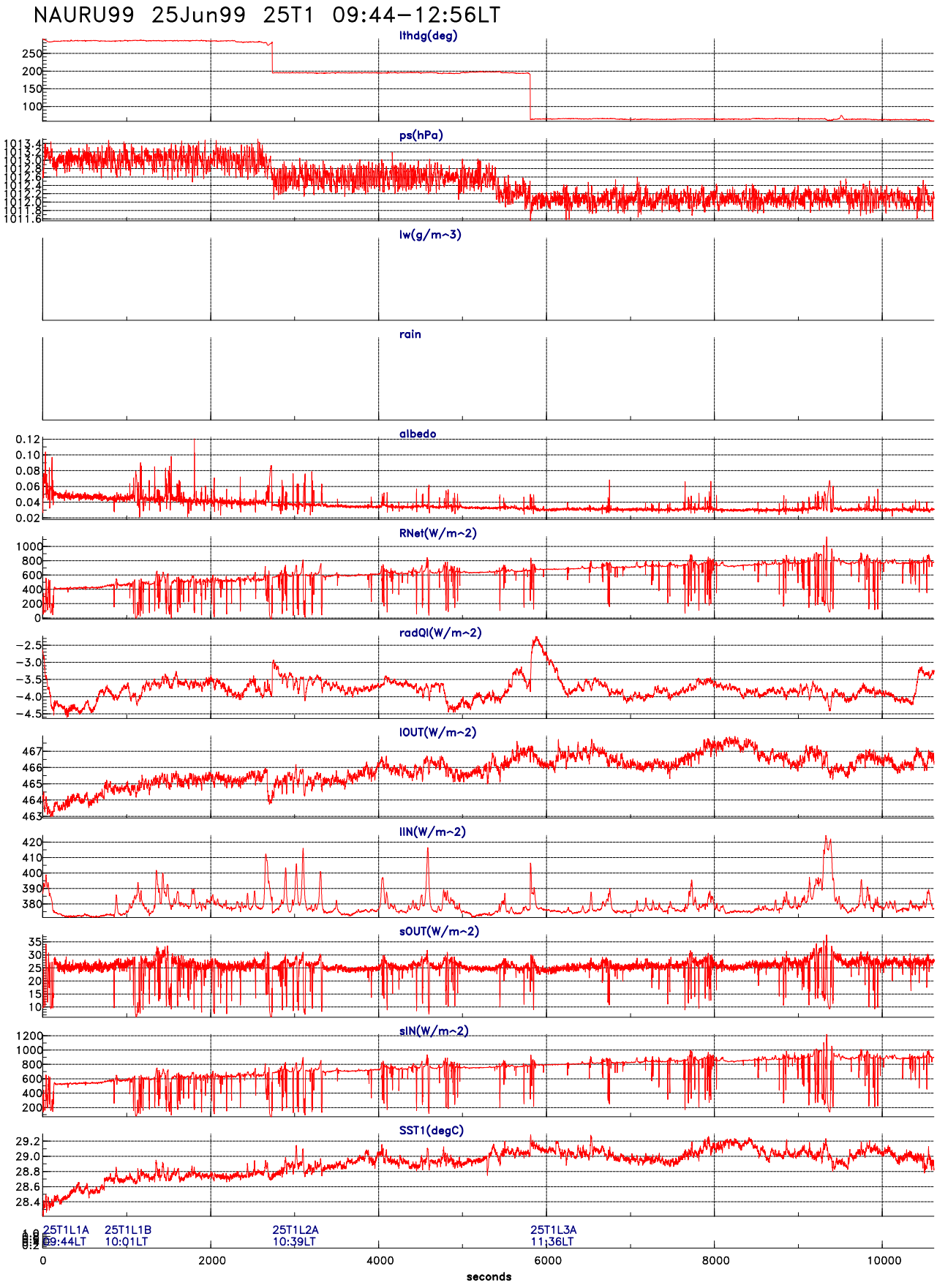
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
25T1L1A 09:44LT
25T1L1B 10:01LT
25T1L2A 10:39LT
25T1L3A 11:36LT
0
2000
4000
6000
8000
10000
seconds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lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
25T1L1A 09:44LT
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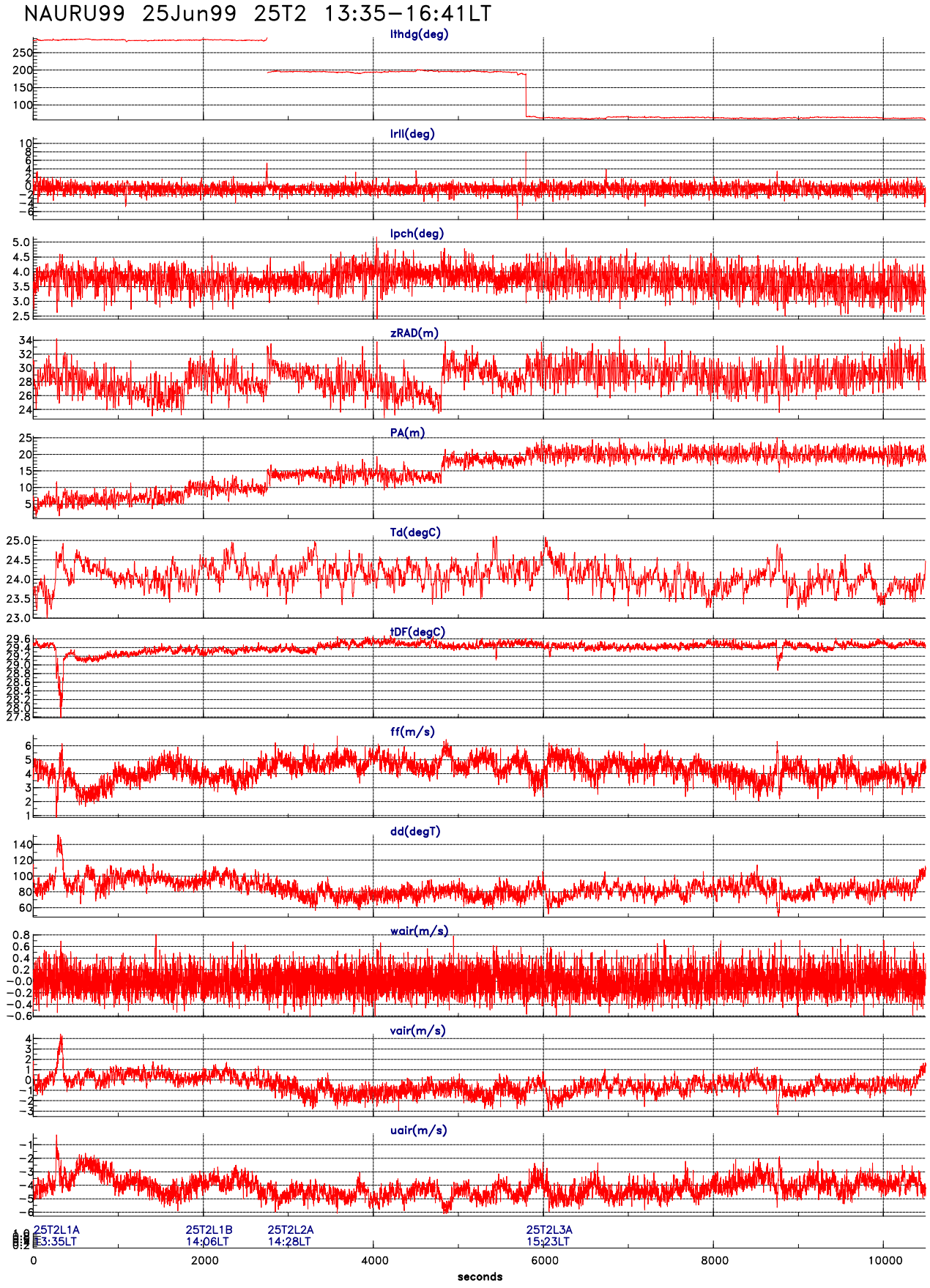
25T1L2A 10:39LT
25T1L3A 11:36LT
seconds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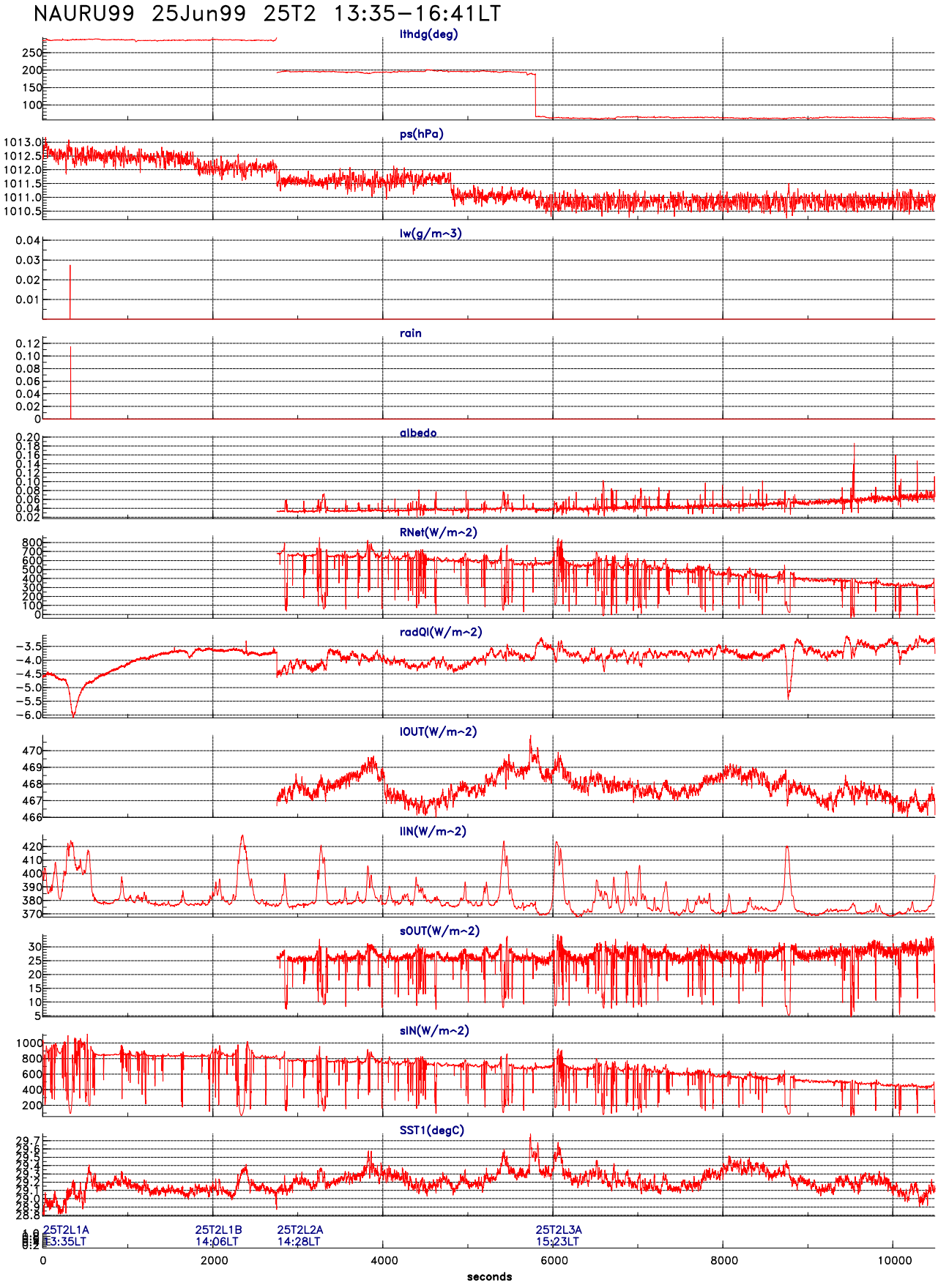
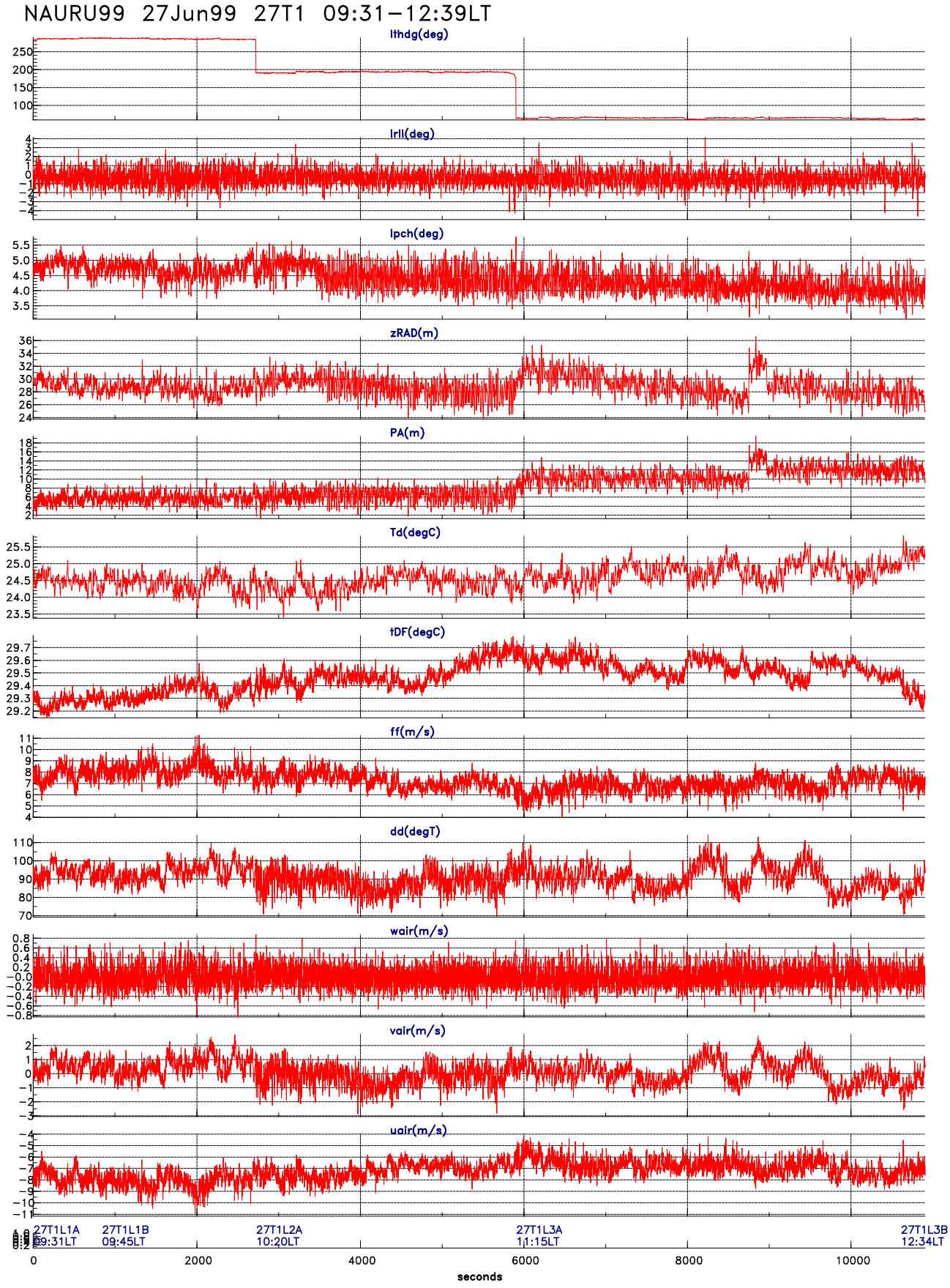
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
25T2L1A
13:35LT
25T2L1B
14:06LT
25T2L2A
14:28LT
25T2L3A
15:23LT
0
2000
4000
6000
8000
10000
seconds


NAURU99 25Jun99 25T2 13:35–16:41LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
25T2L1A
13:35LT
25T2L1B
14:06LT
25T2L2A
14:28LT
25T2L3A
15:23LT
0
2000
4000
6000
8000
10000
seconds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lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
27T1L1A 09:31LT
27T1L1B 09:45LT
27T1L2A 10:20LT
27T1L3A 11:15LT
27T1L3B 12:34LT
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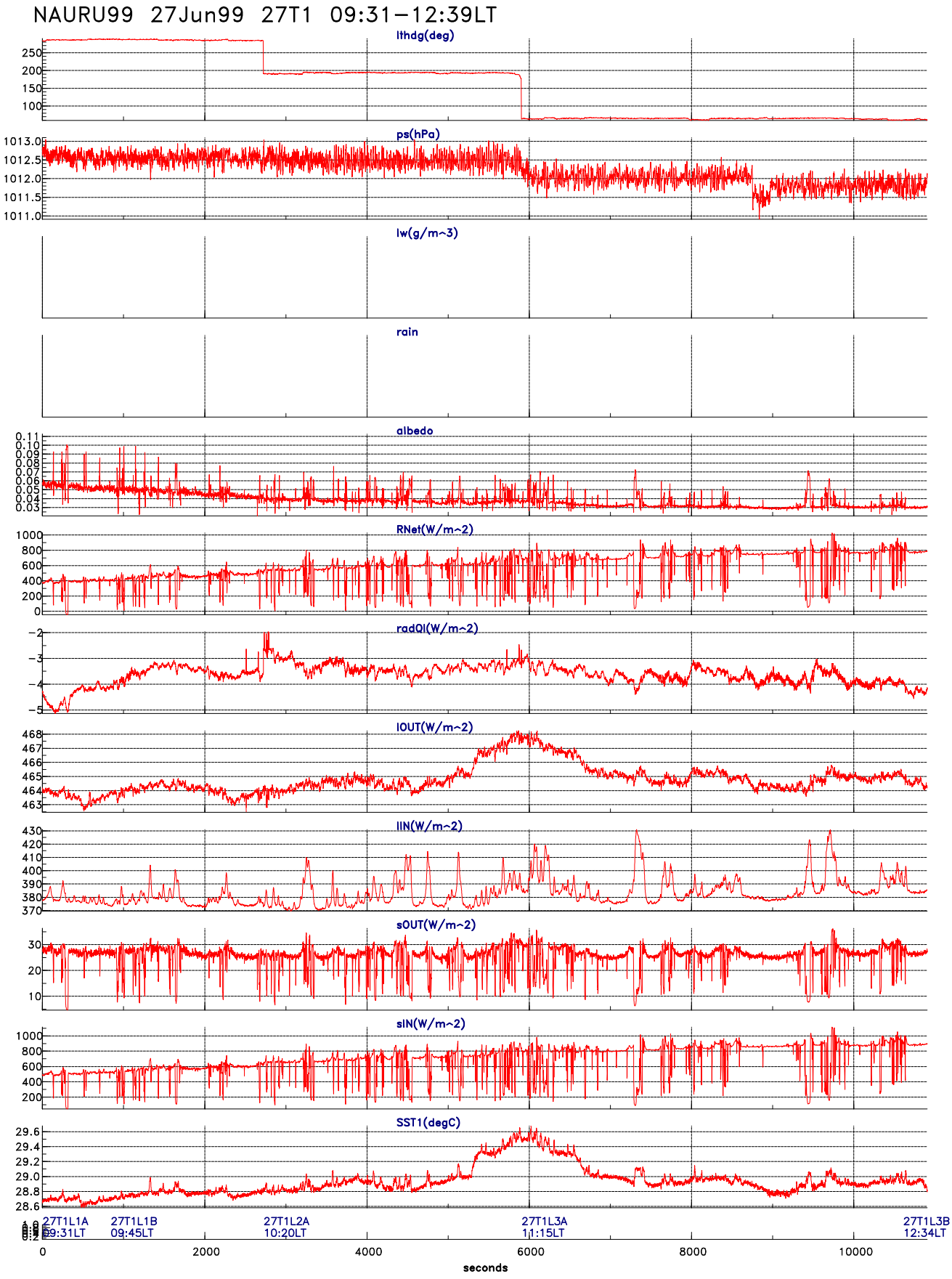
2000
4000
6000
8000
10000
seconds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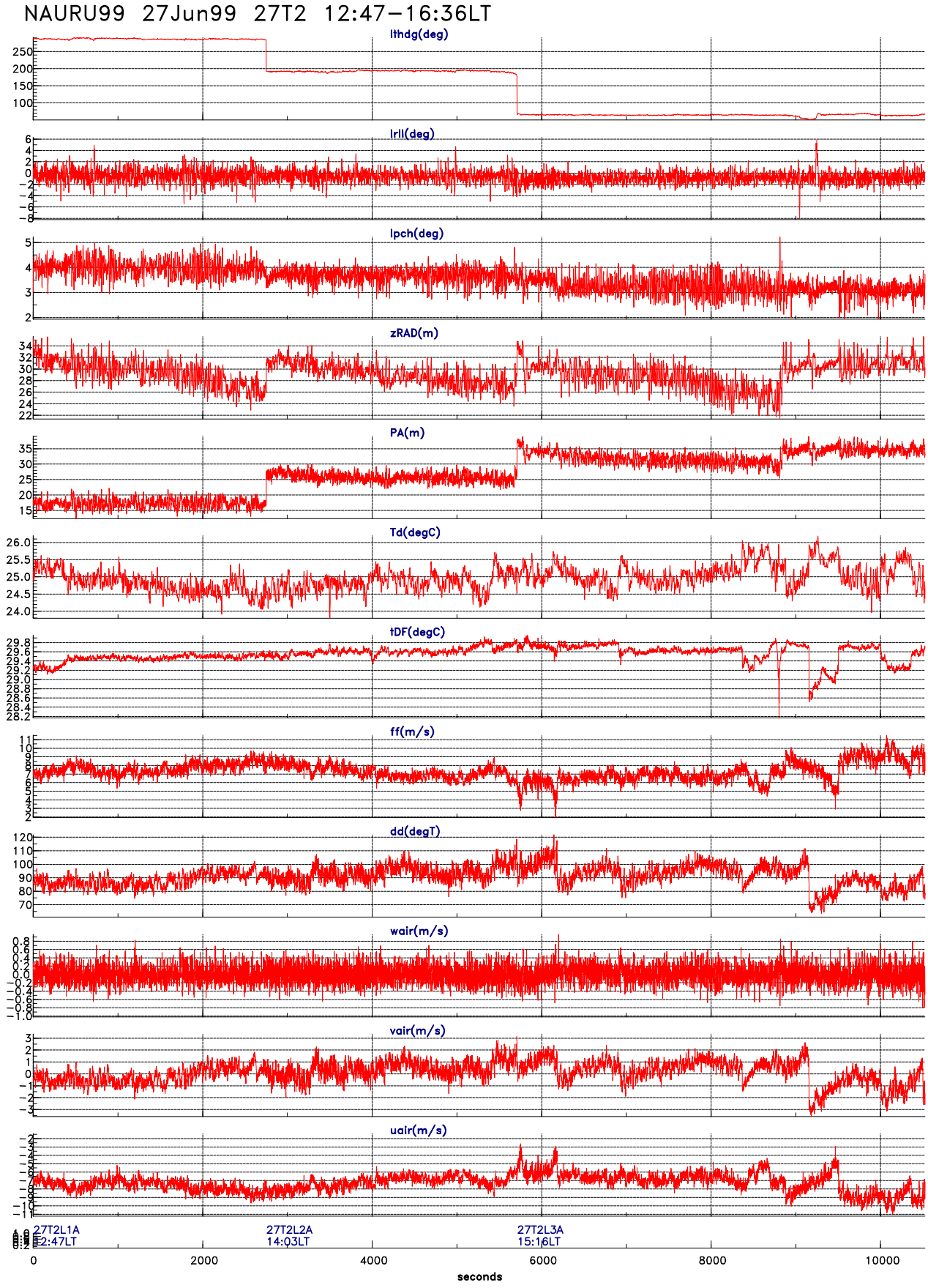
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
27T1L1A
09:31LT
27T1L1B
09:45LT
27T1L2A
10:20LT
27T1L3A
11:15LT
27T1L3B
12:34LT
seconds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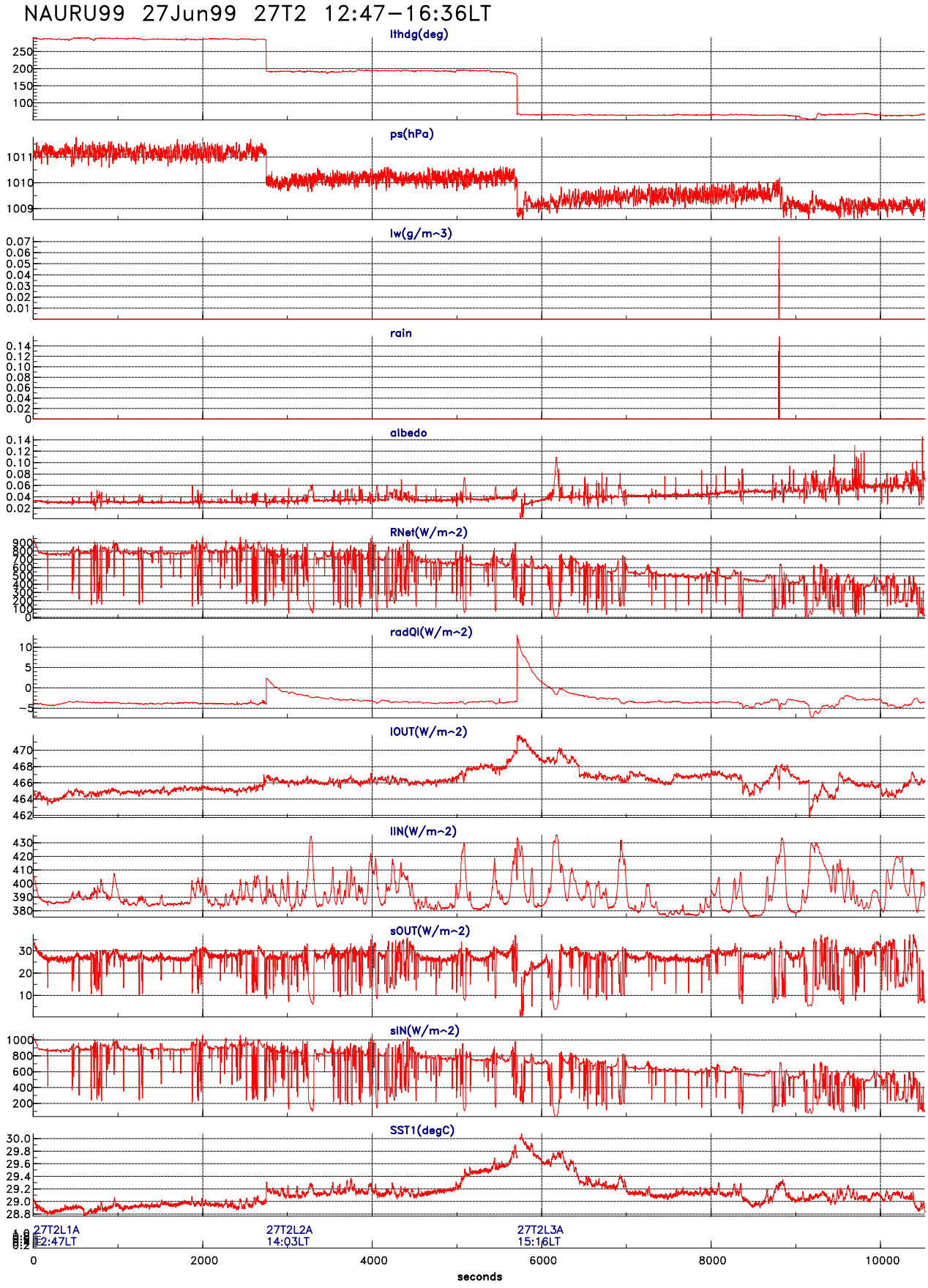
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
27T2L1A
12:47LT
27T2L2A
14:03LT
27T2L3A
15:16LT
0
2000
4000
6000
8000
10000
seconds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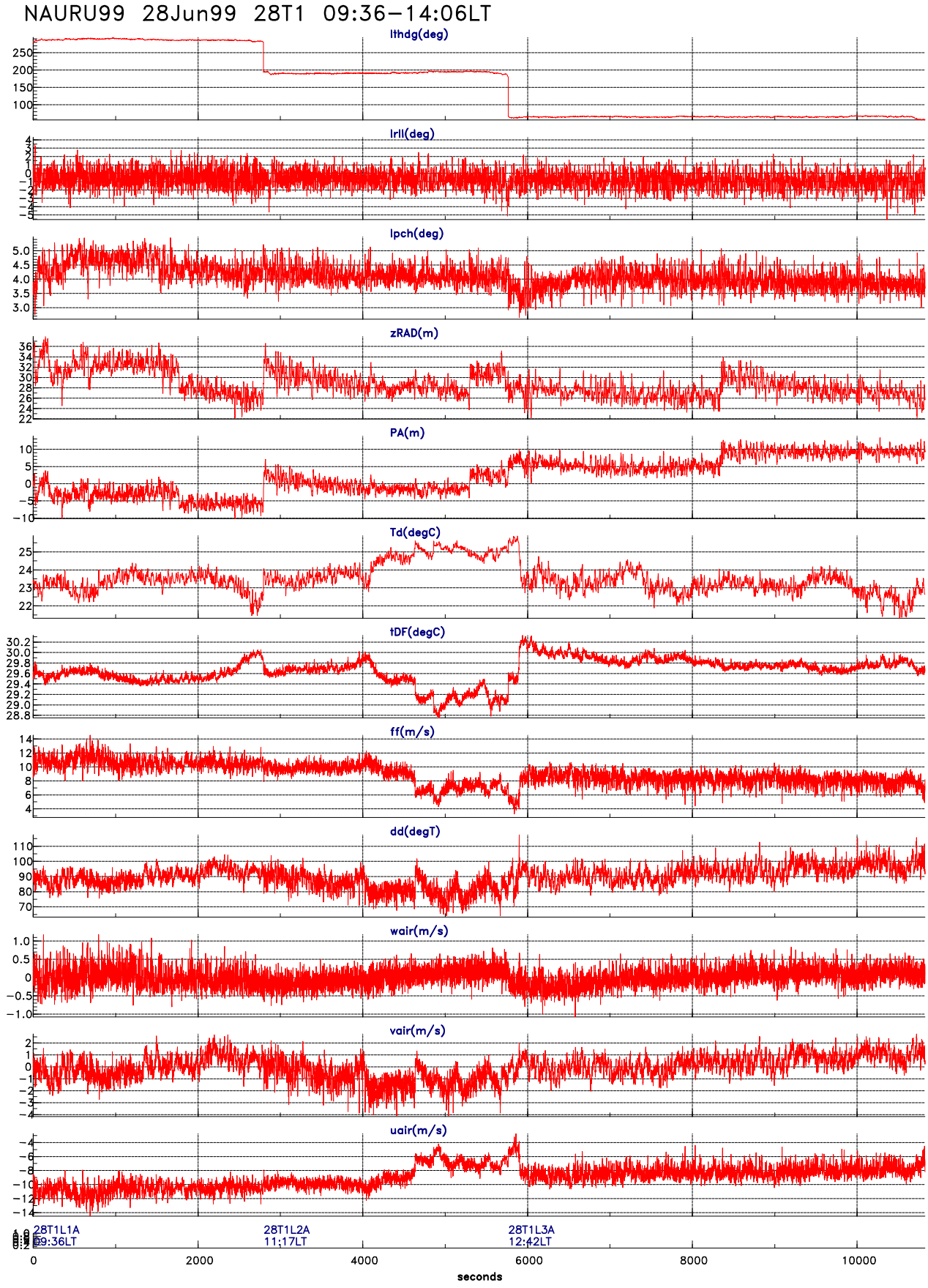
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
27T2L1A
12:47LT
27T2L2A
14:03LT
27T2L3A
15:16LT
seconds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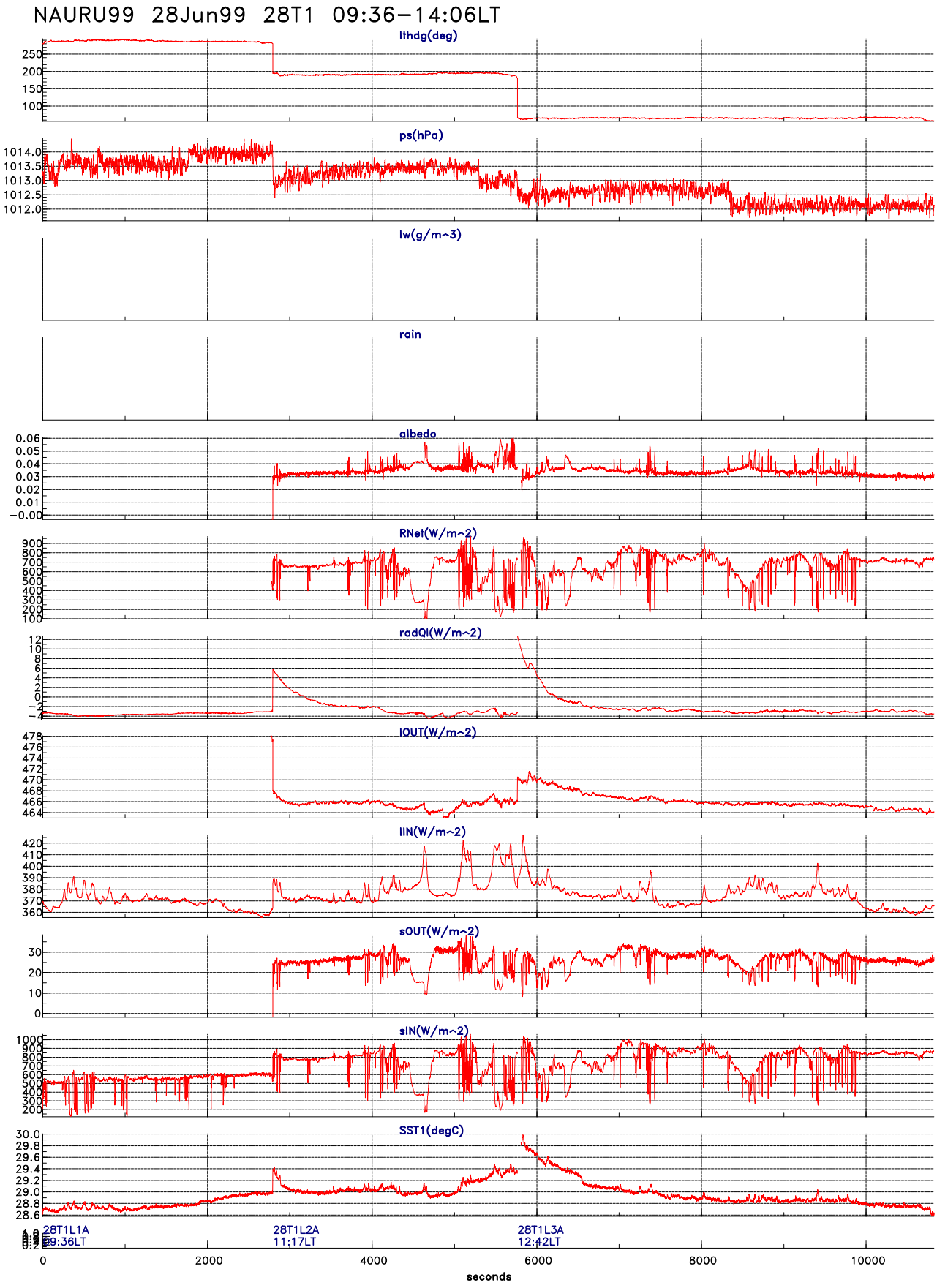
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
28T1L1A
09:36LT
28T1L2A
11:17LT
28T1L3A
12:42LT
0
2000
4000
6000
8000
10000
seconds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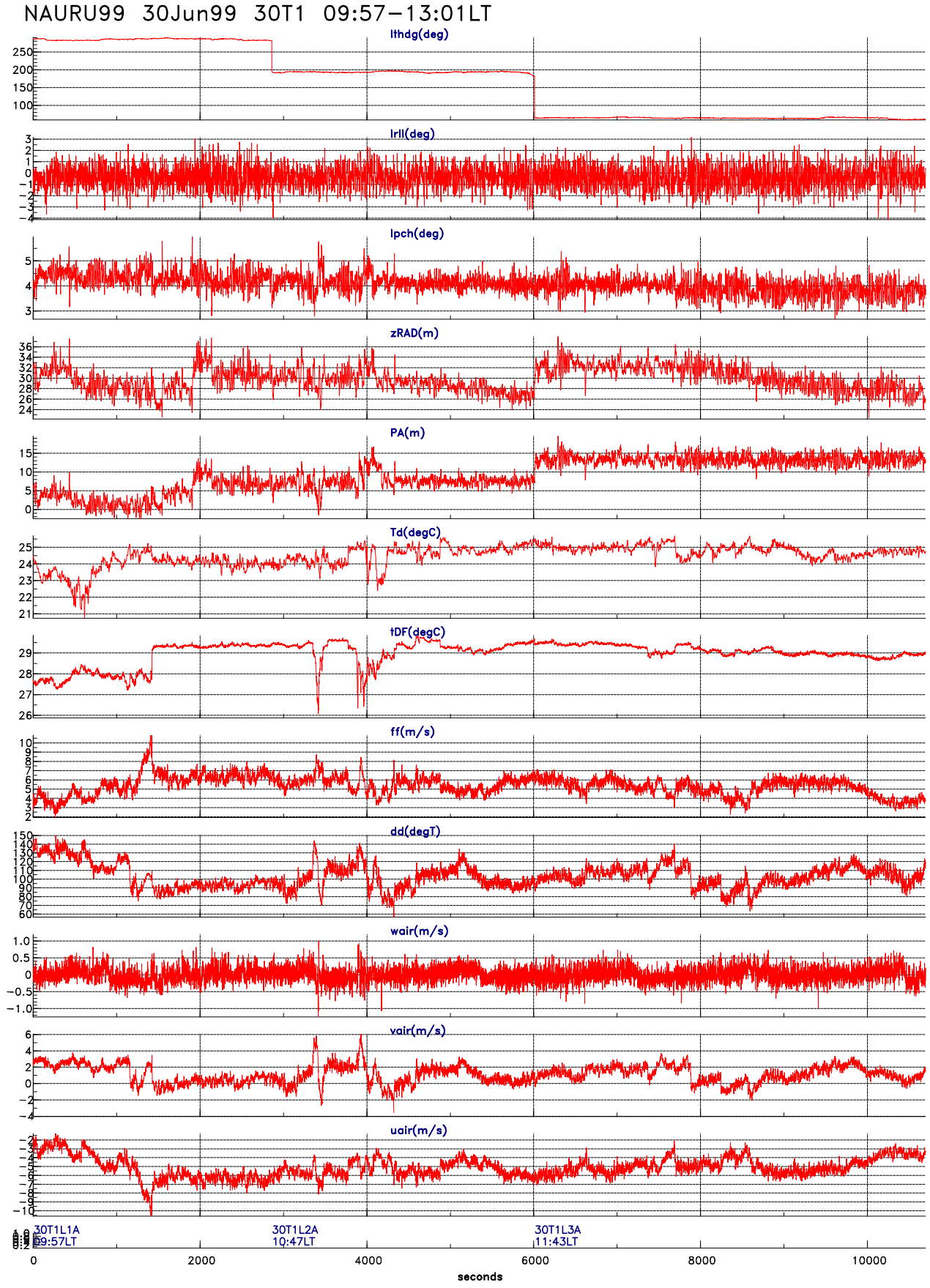
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
28T1L1A
09:36LT
28T1L2A
11:17LT
28T1L3A
12:42LT
seconds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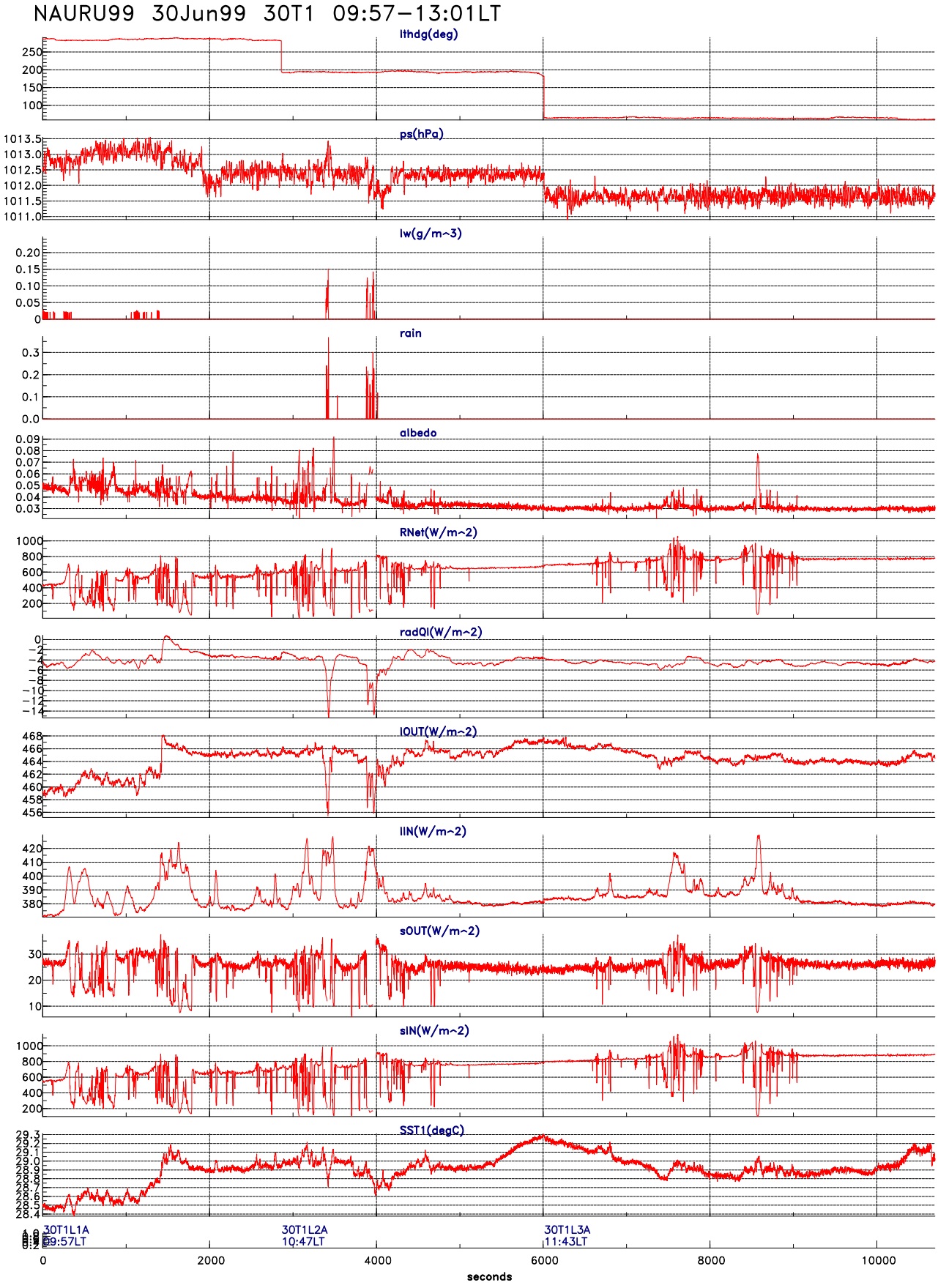
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
30T1L1A
09:57LT
30T1L2A
10:47LT
30T1L3A
11:43LT
0
2000
4000
6000
8000
10000
seconds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lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
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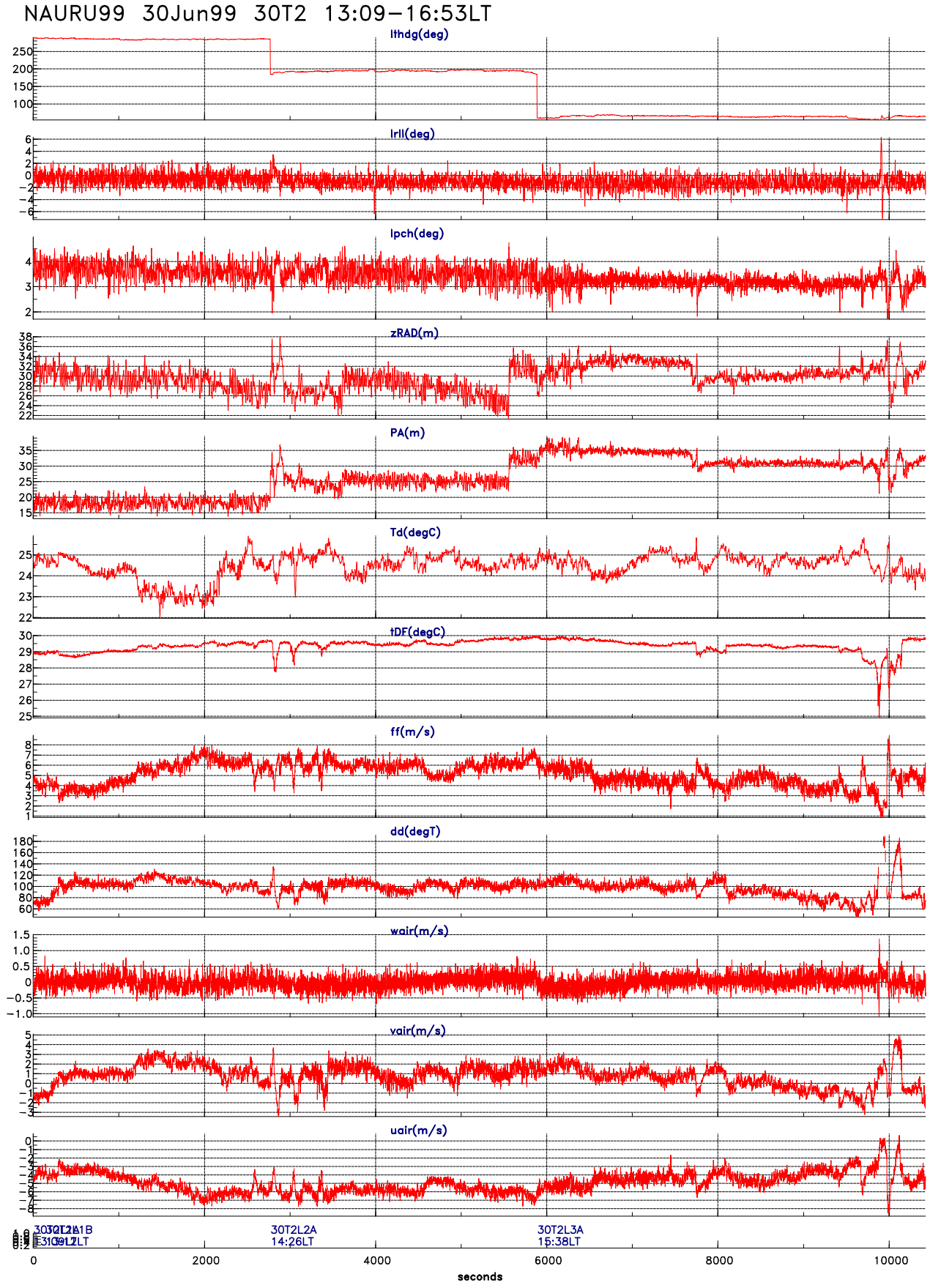
30T1L3A
11:43LT
seconds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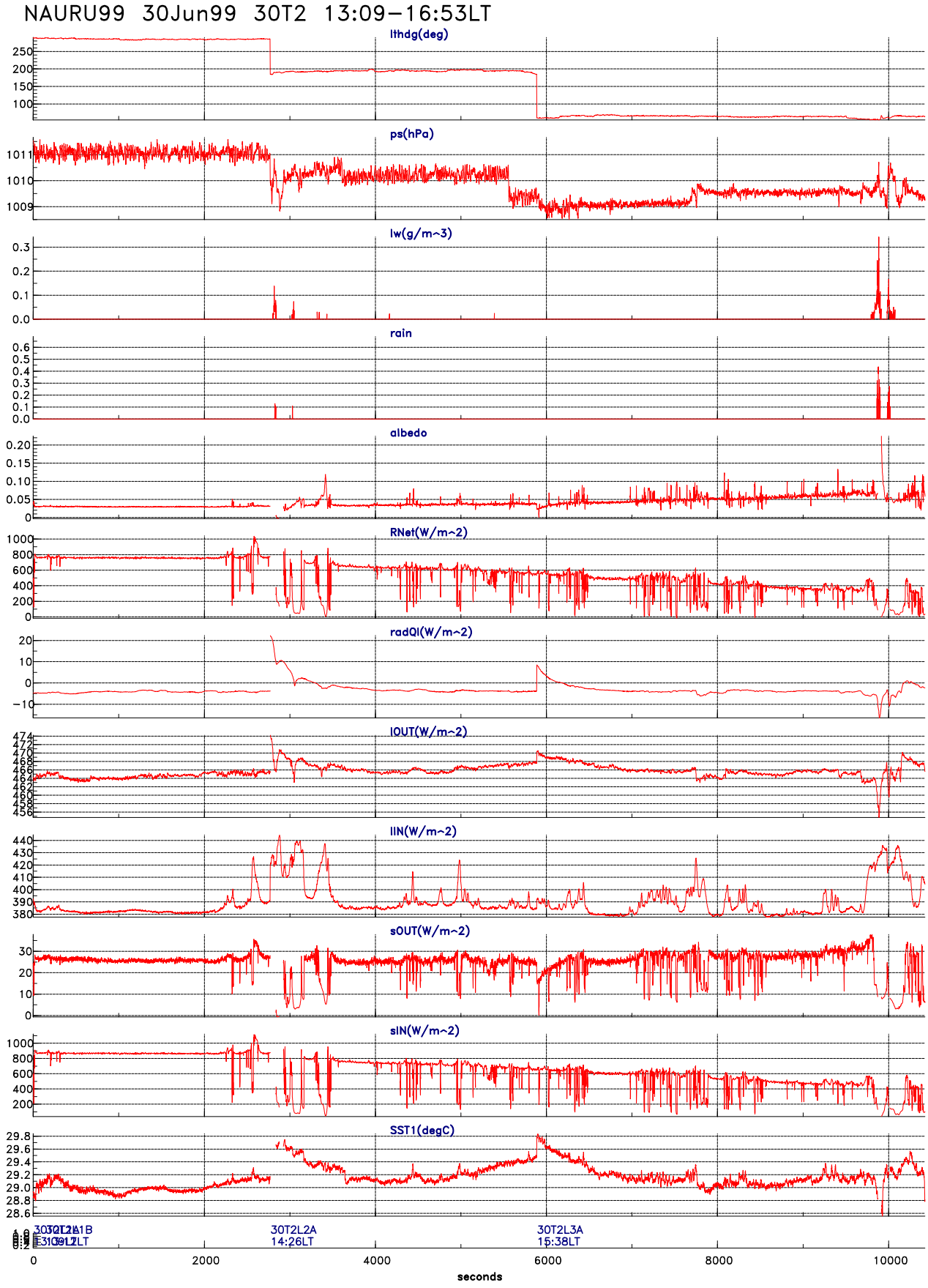
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
30T2L2A
14:26LT
30T2L3A
15:38LT
seconds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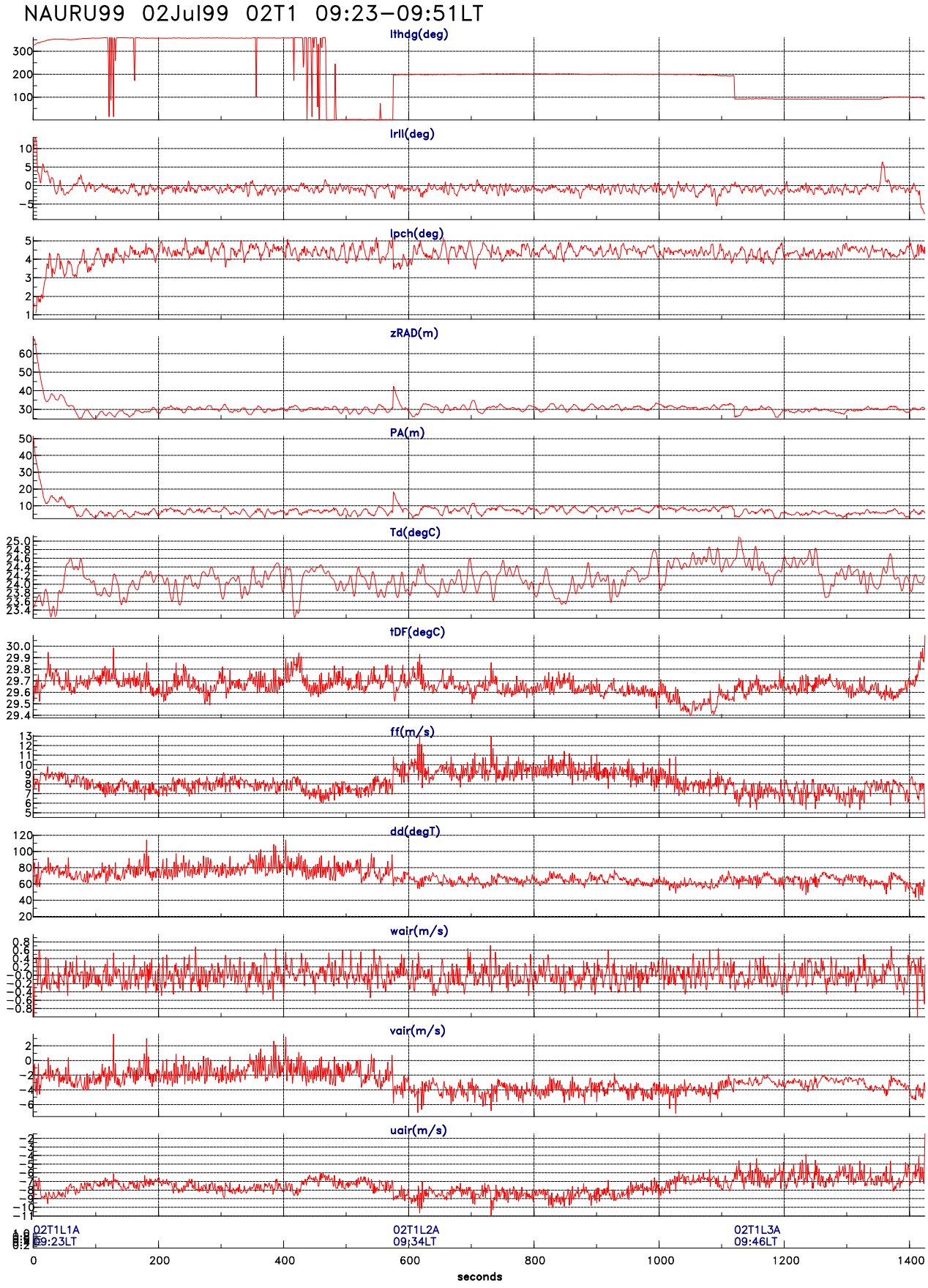
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
30T2L2A
14:26LT
30T2L3A
15:38LT
seconds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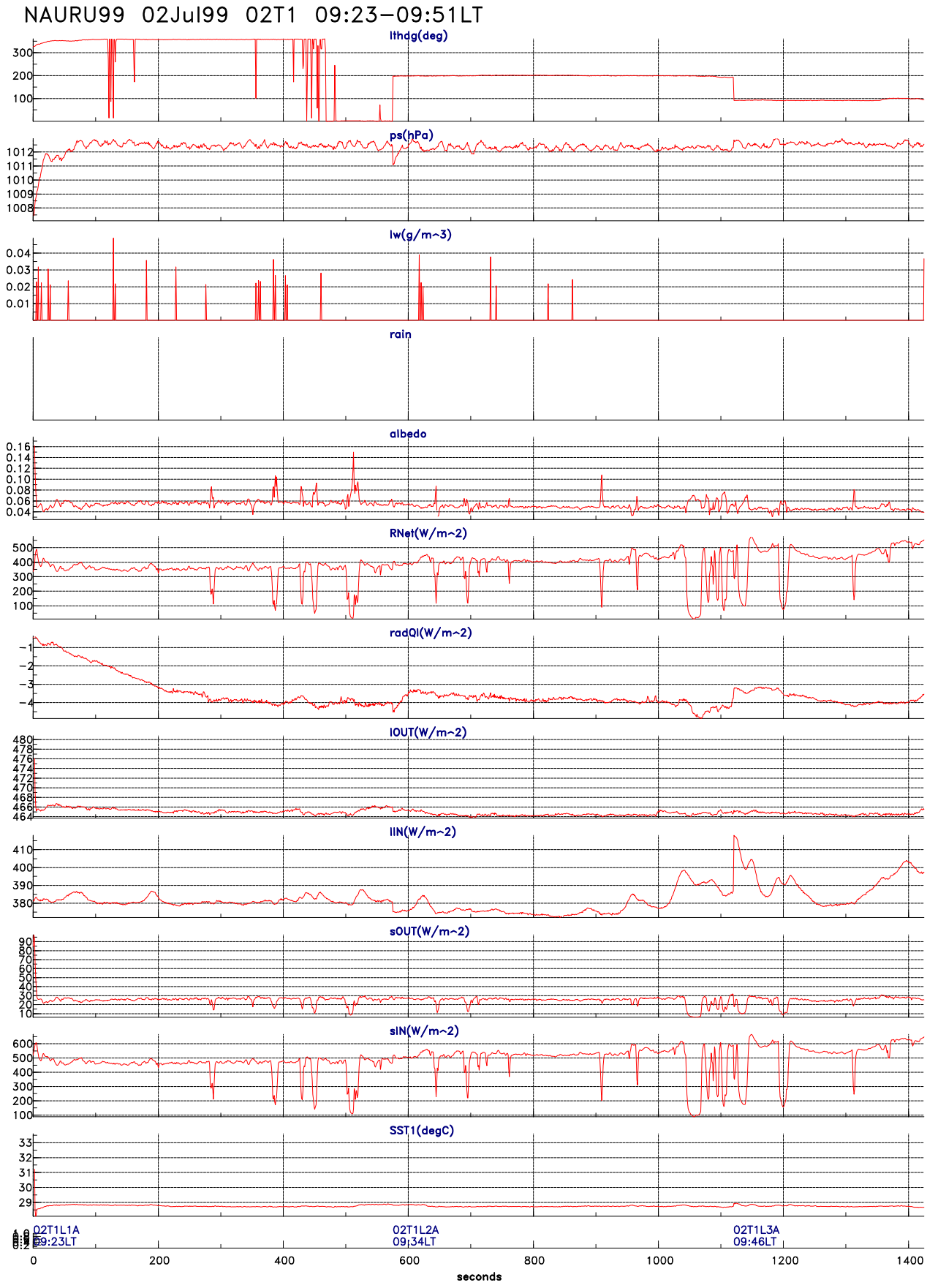
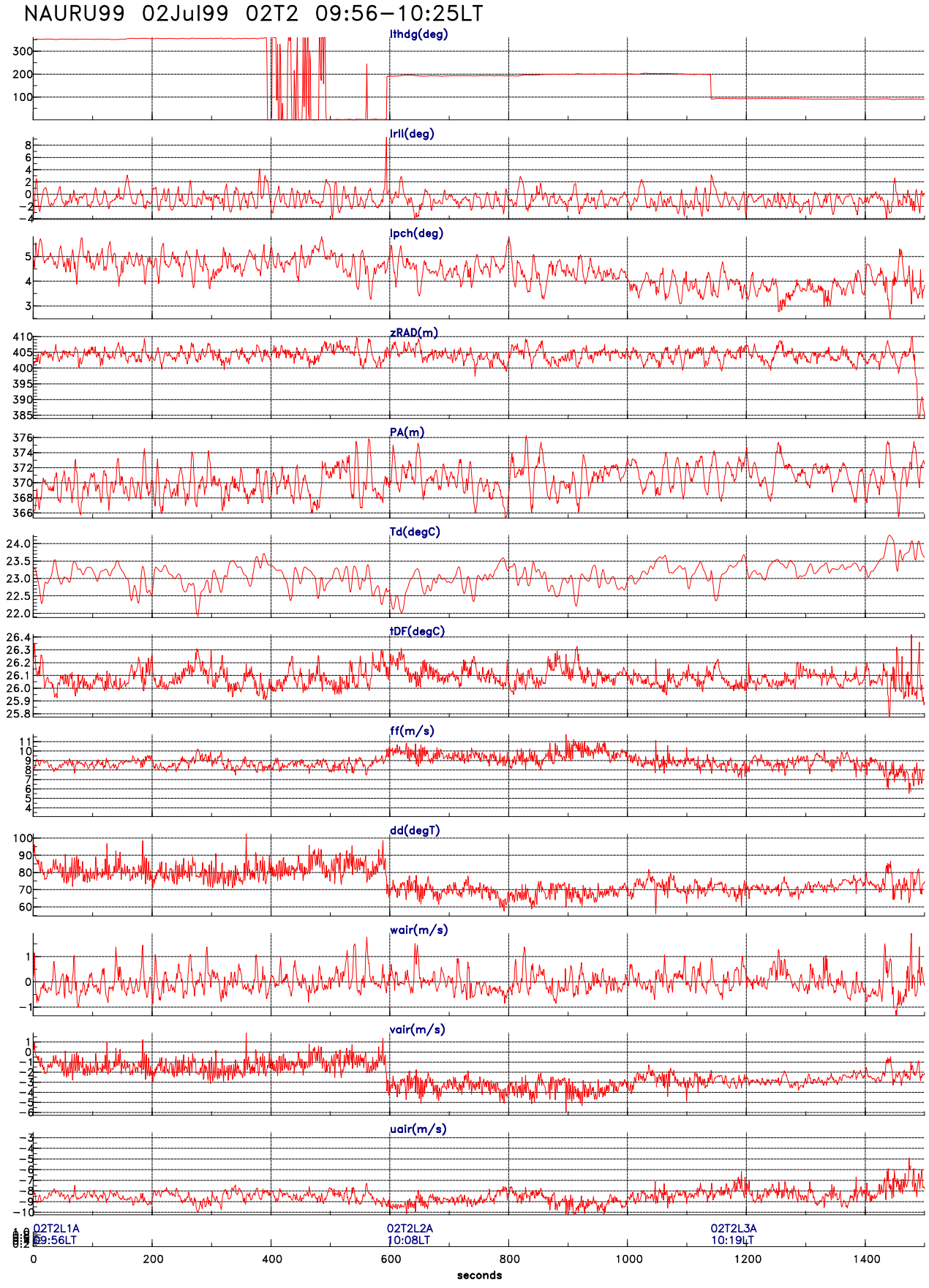
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
02T1L1A
09:23LT
02T1L2A
09:34LT
02T1L3A
09:46LT
seconds


NAURU99 02Jul99 02T1 09:23–09:51LT
lthdg(deg)
ps(hPa)
lw(g/m^3)
rain
albedo
RNet(W/m^2)
radQl(W/m^2)
lOUT(W/m^2)
lIN(W/m^2)
sOUT(W/m^2)
sIN(W/m^2)
SST1(degC)
02T1L1A
09:23LT
02T1L2A
09:34LT
02T1L3A
09:46LT
seconds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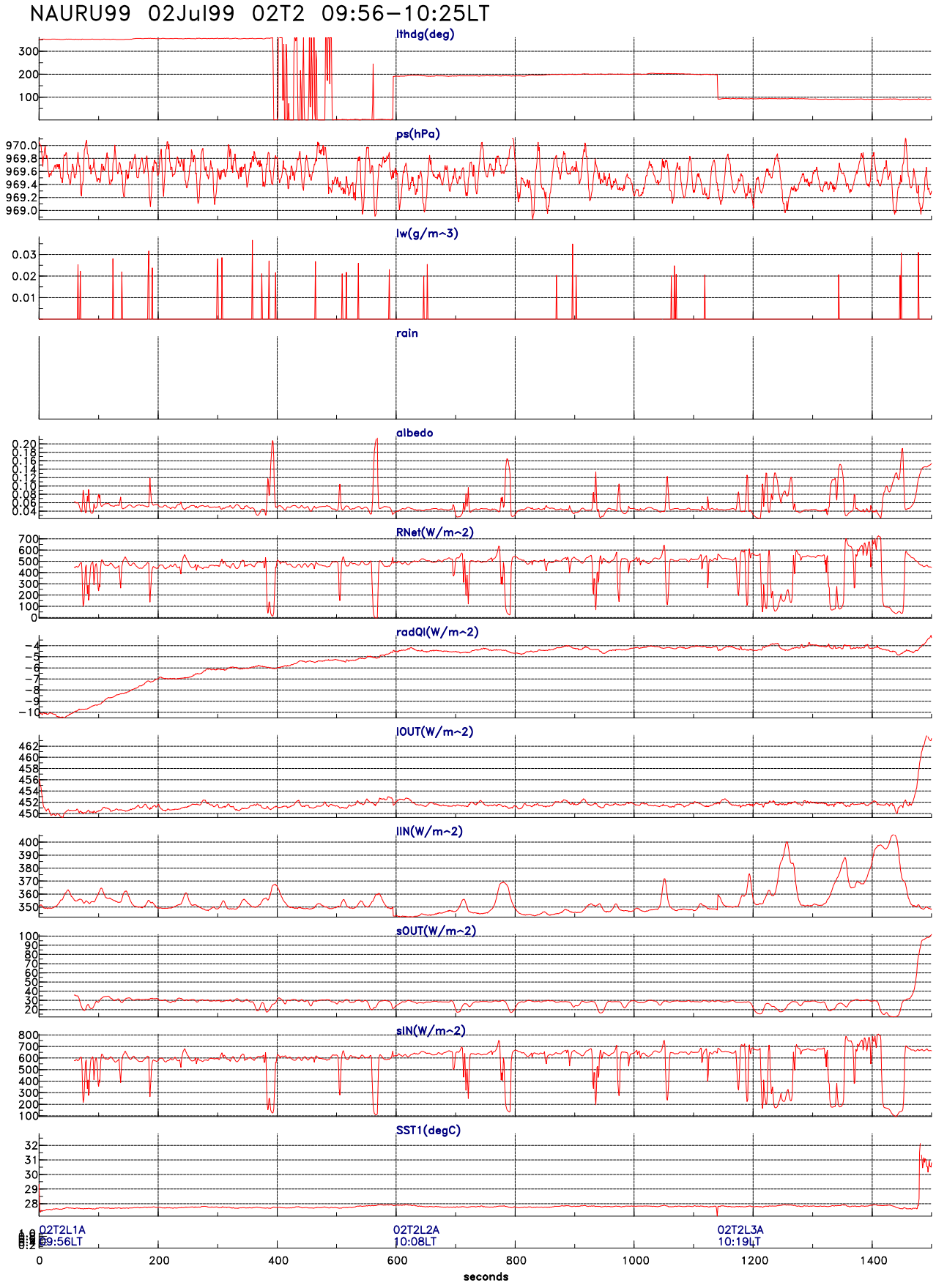
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
02T2L1A
09:56LT
02T2L2A
10:08LT
02T2L3A
10:19LT
seconds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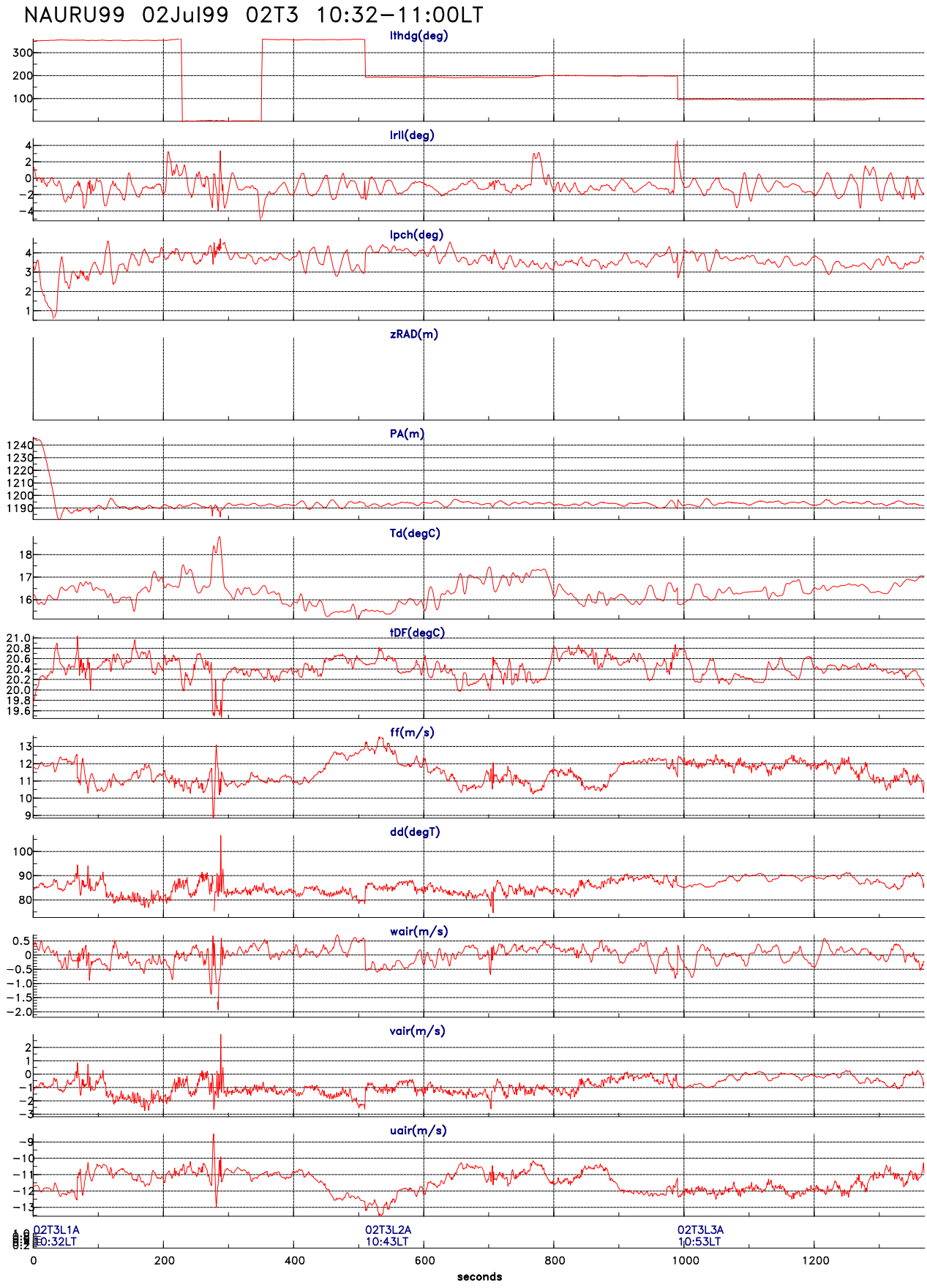
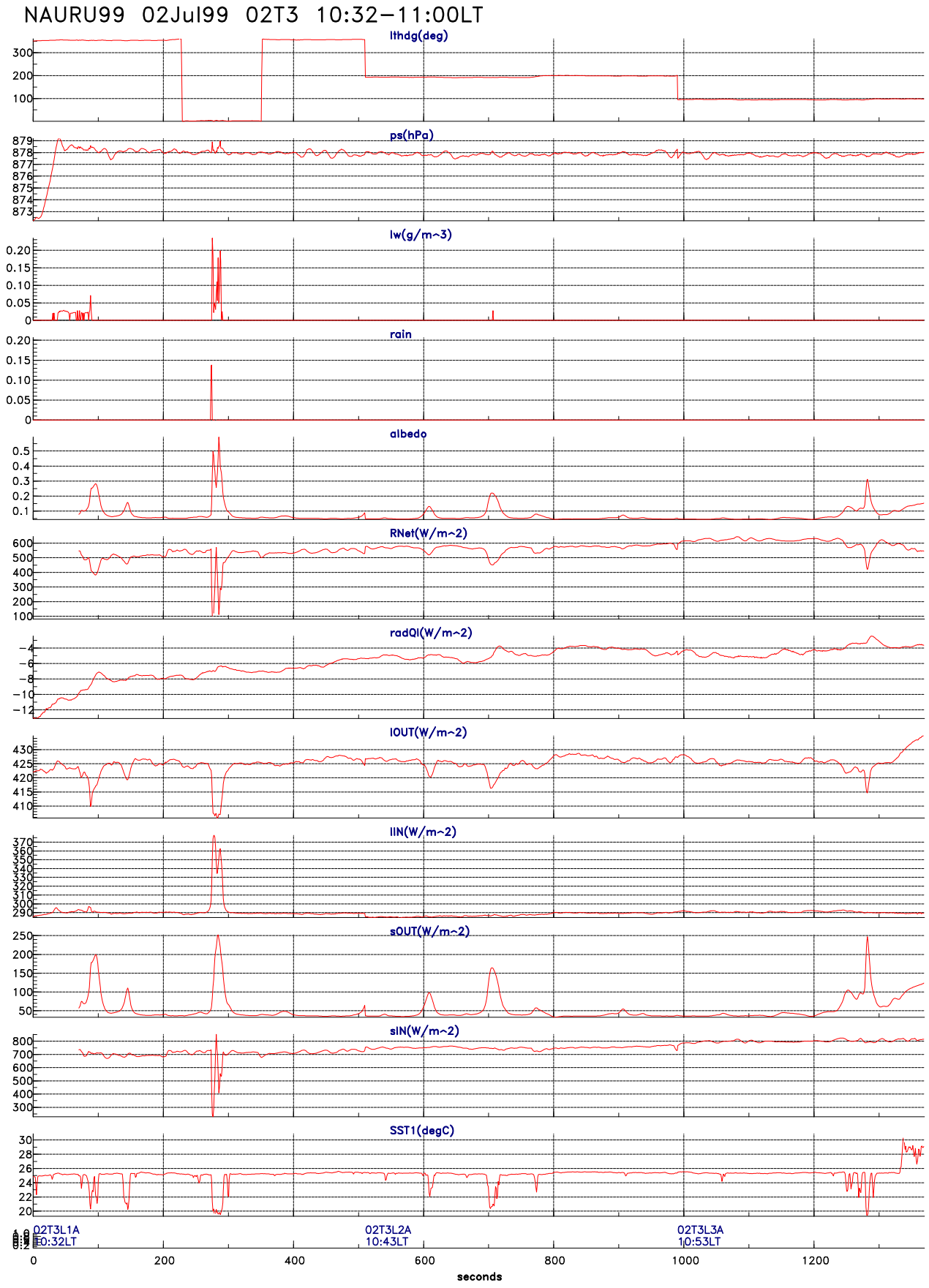
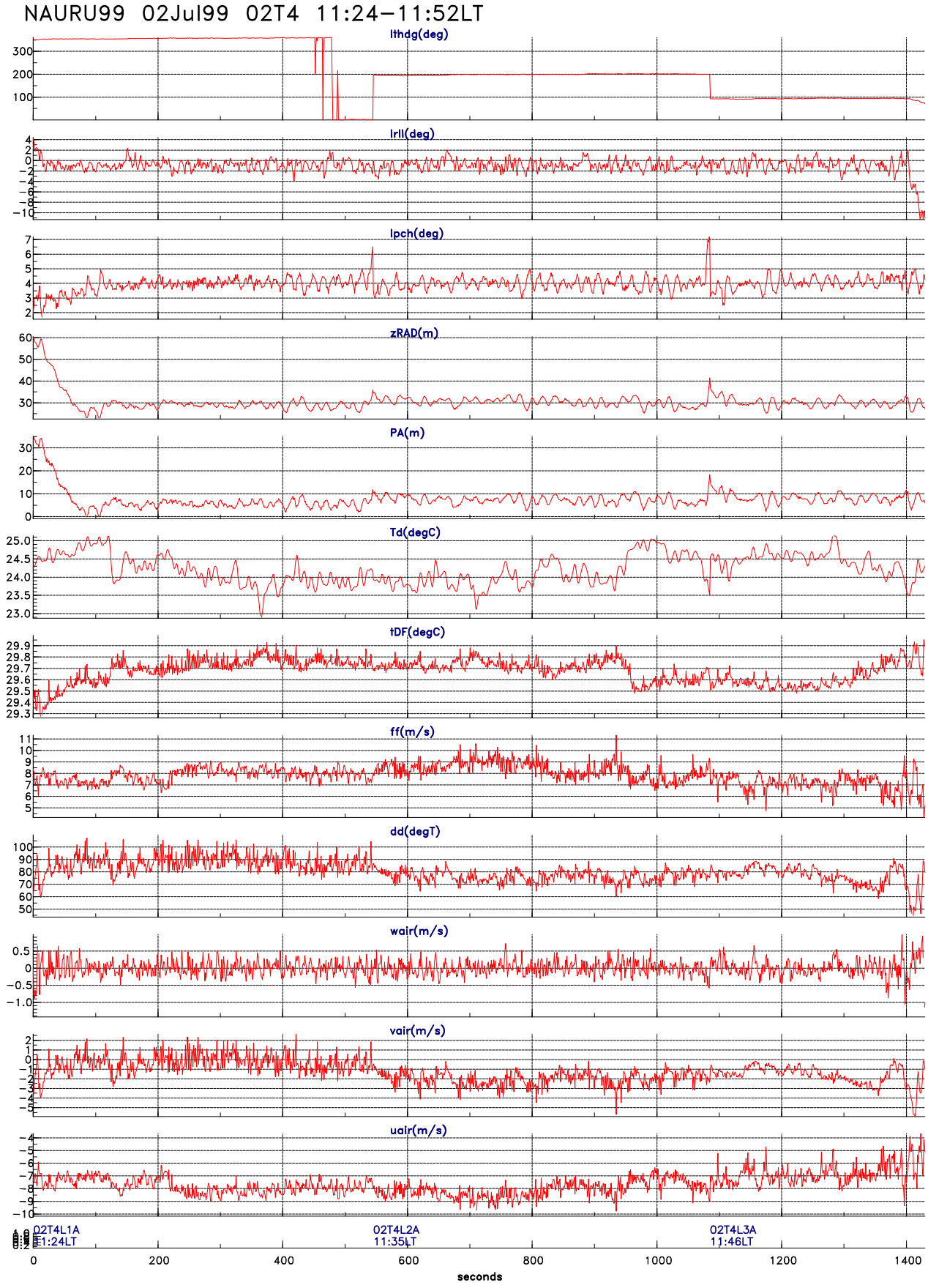
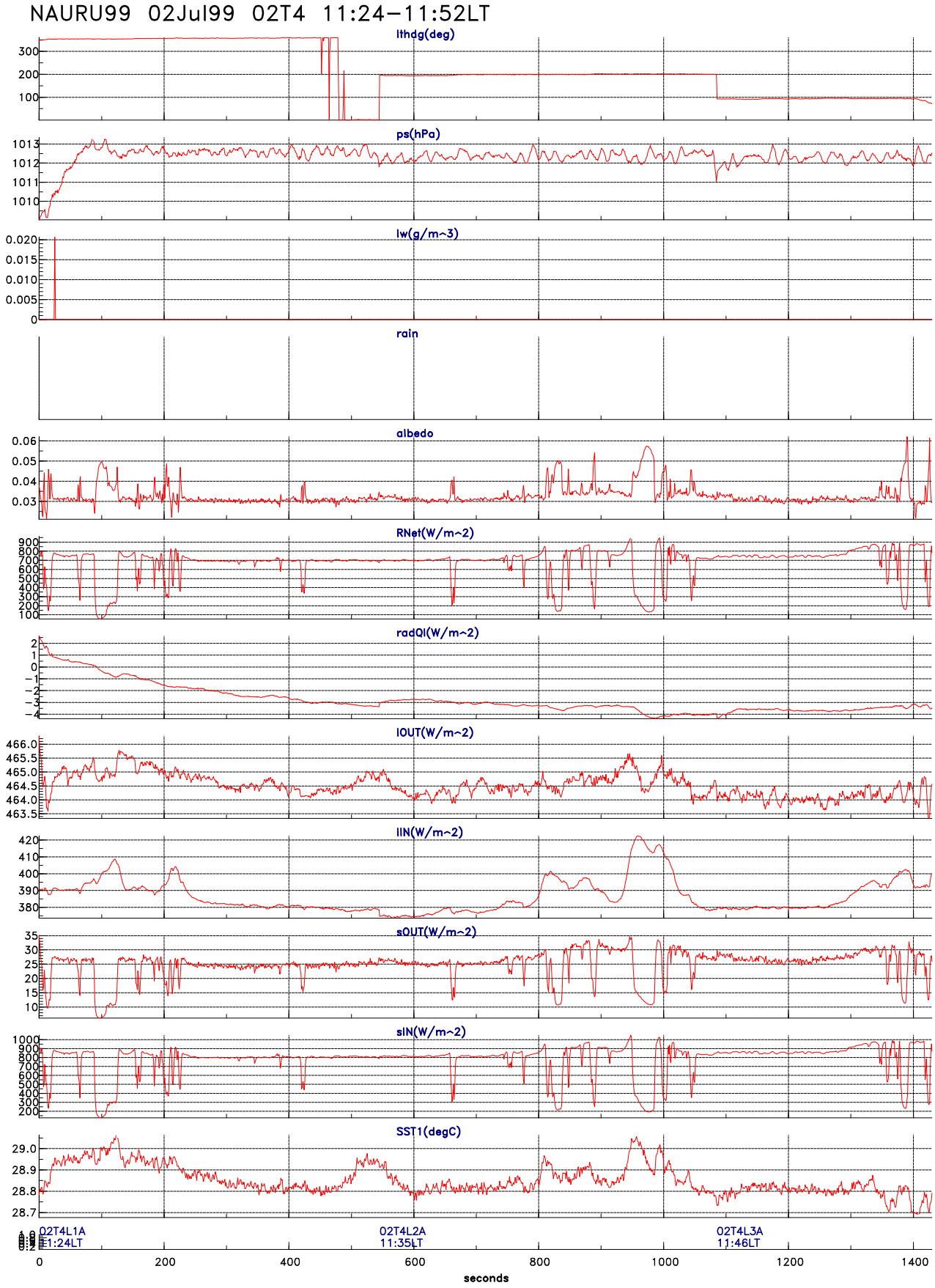
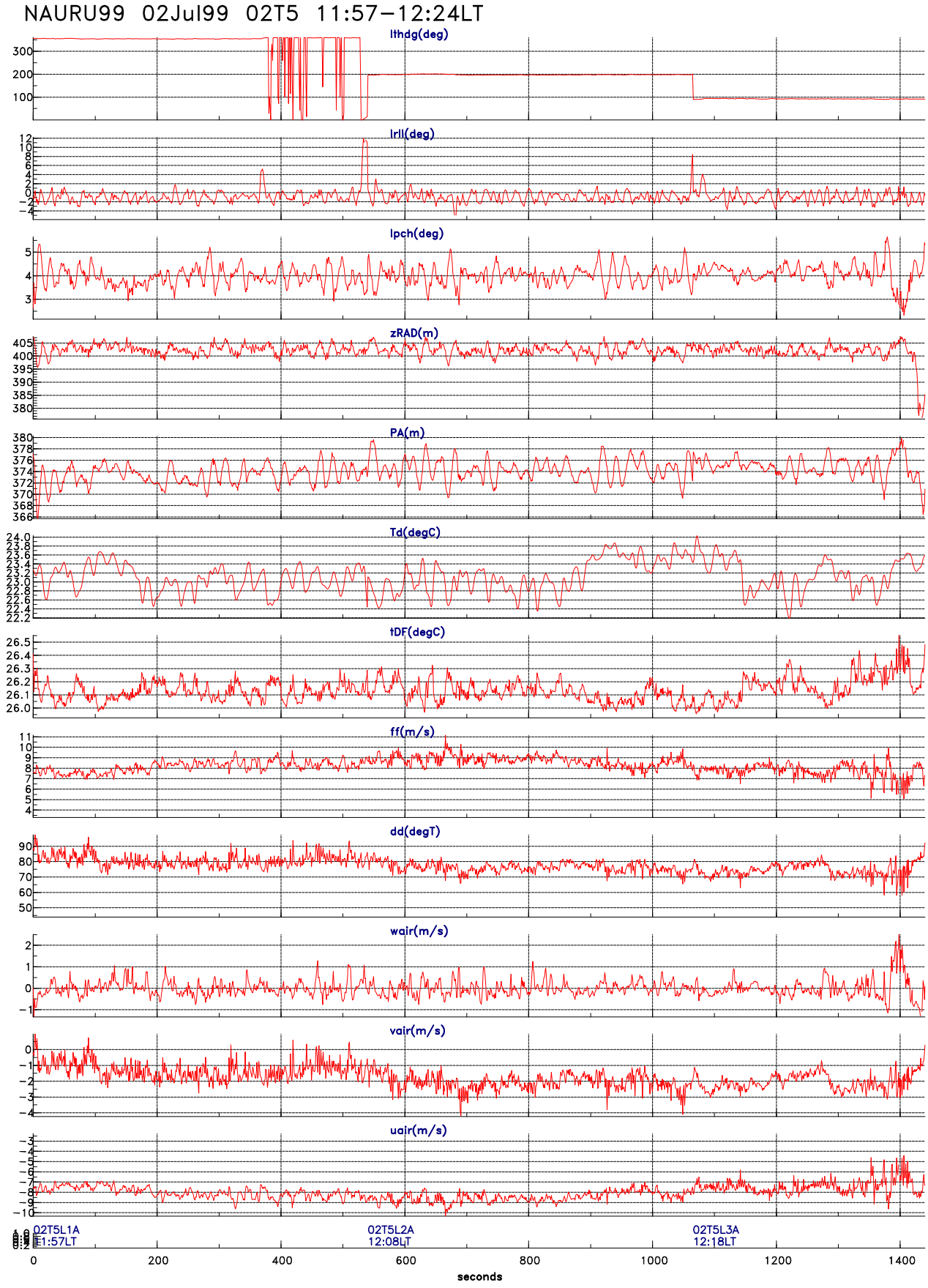
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
02T2L1A
09:56LT
02T2L2A
10:08LT
02T2L3A
10:19LT
seconds

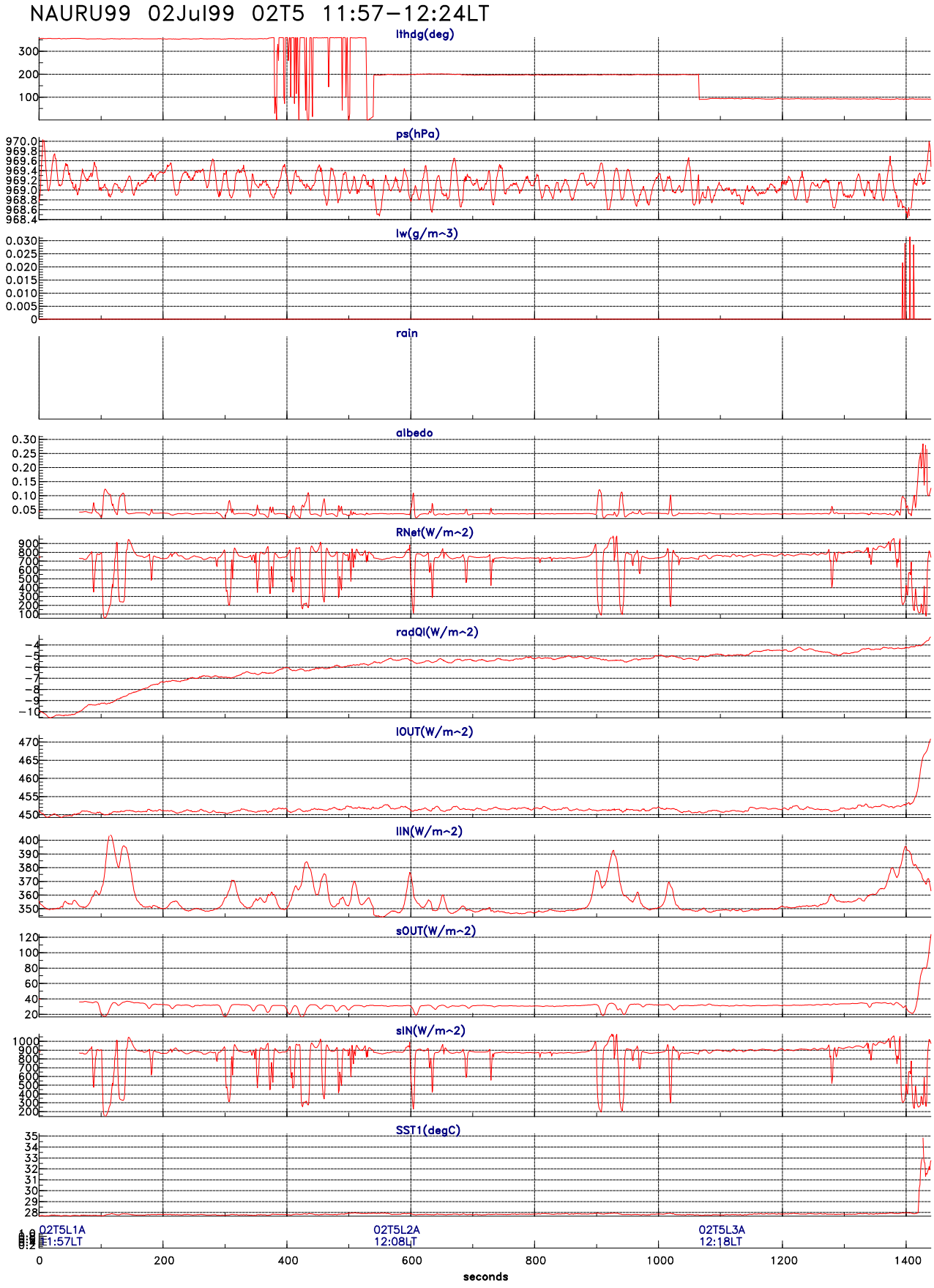

NAURU99 02Jul99 02T3 10:32–11:00LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
02T3L1A
10:32LT
02T3L2A
10:43LT
02T3L3A
10:53LT
seconds

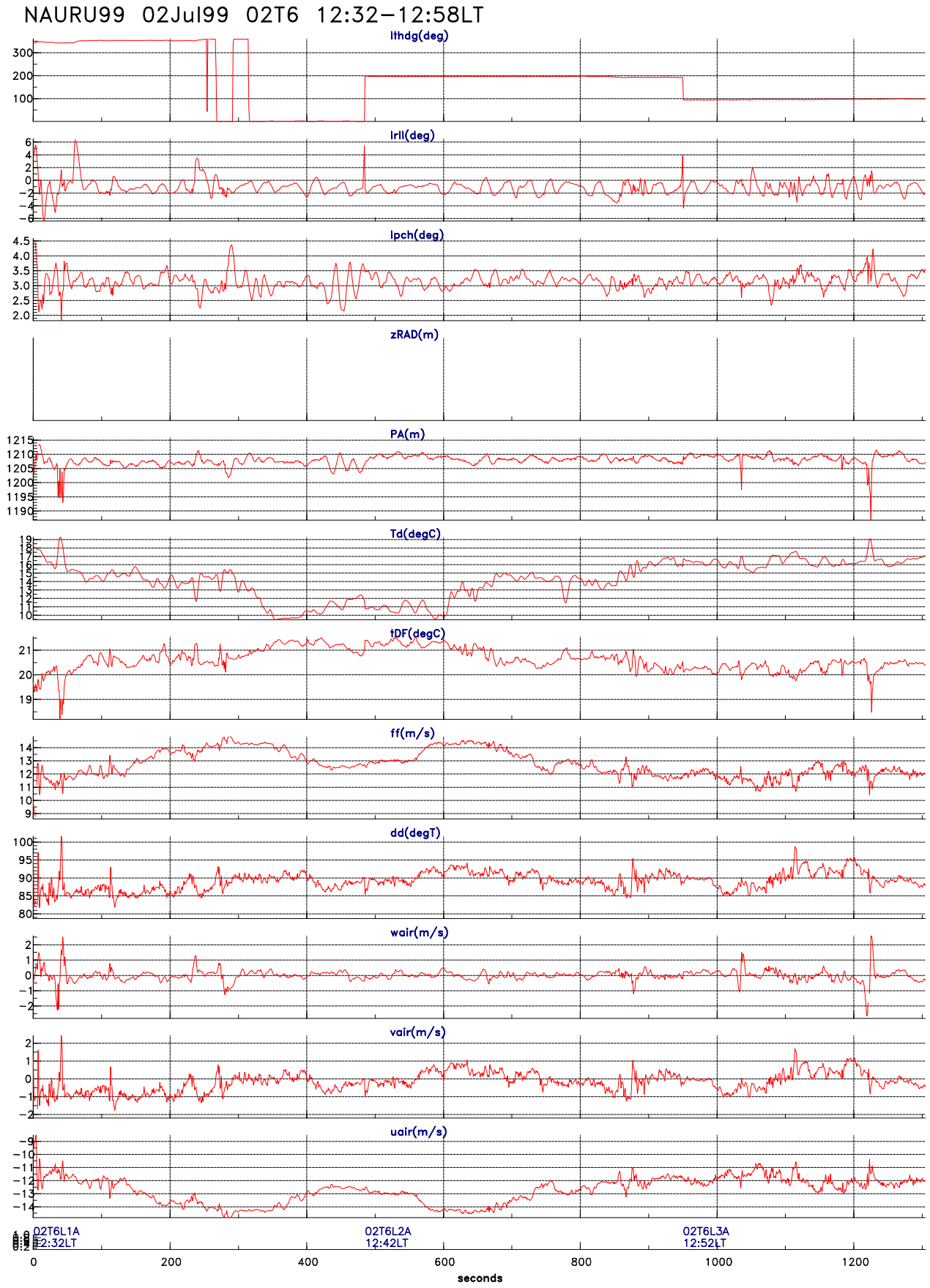

NAURU99 02Jul99 02T3 10:32–11:00LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
02T3L1A
10:32LT
02T3L2A
10:43LT
02T3L3A
10:53LT
seconds

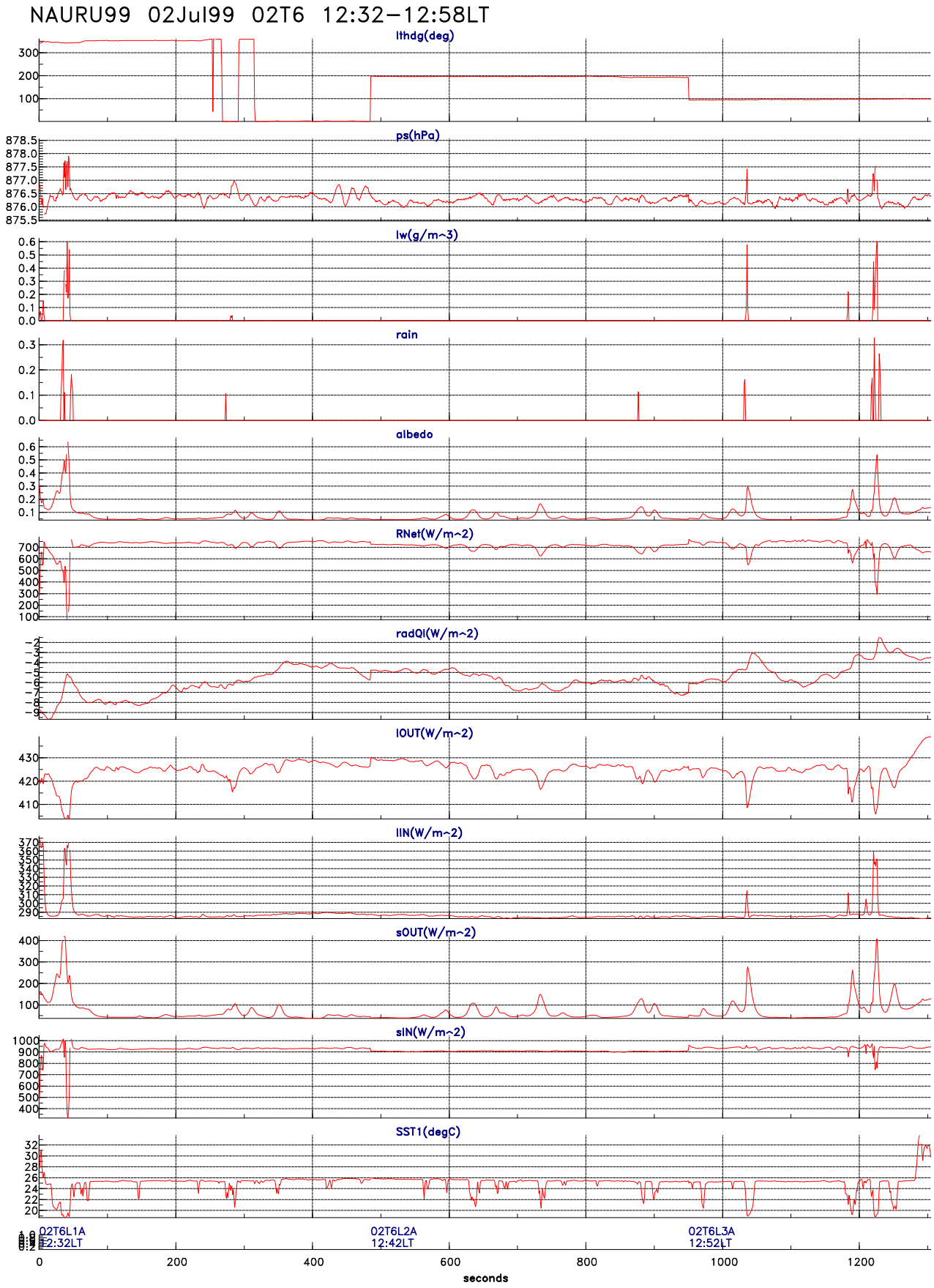

NAURU99 02Jul99 02T4 11:24–11:52LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
02T4L1A
11:24LT
02T4L2A
11:35LT
02T4L3A
11:46LT
seconds

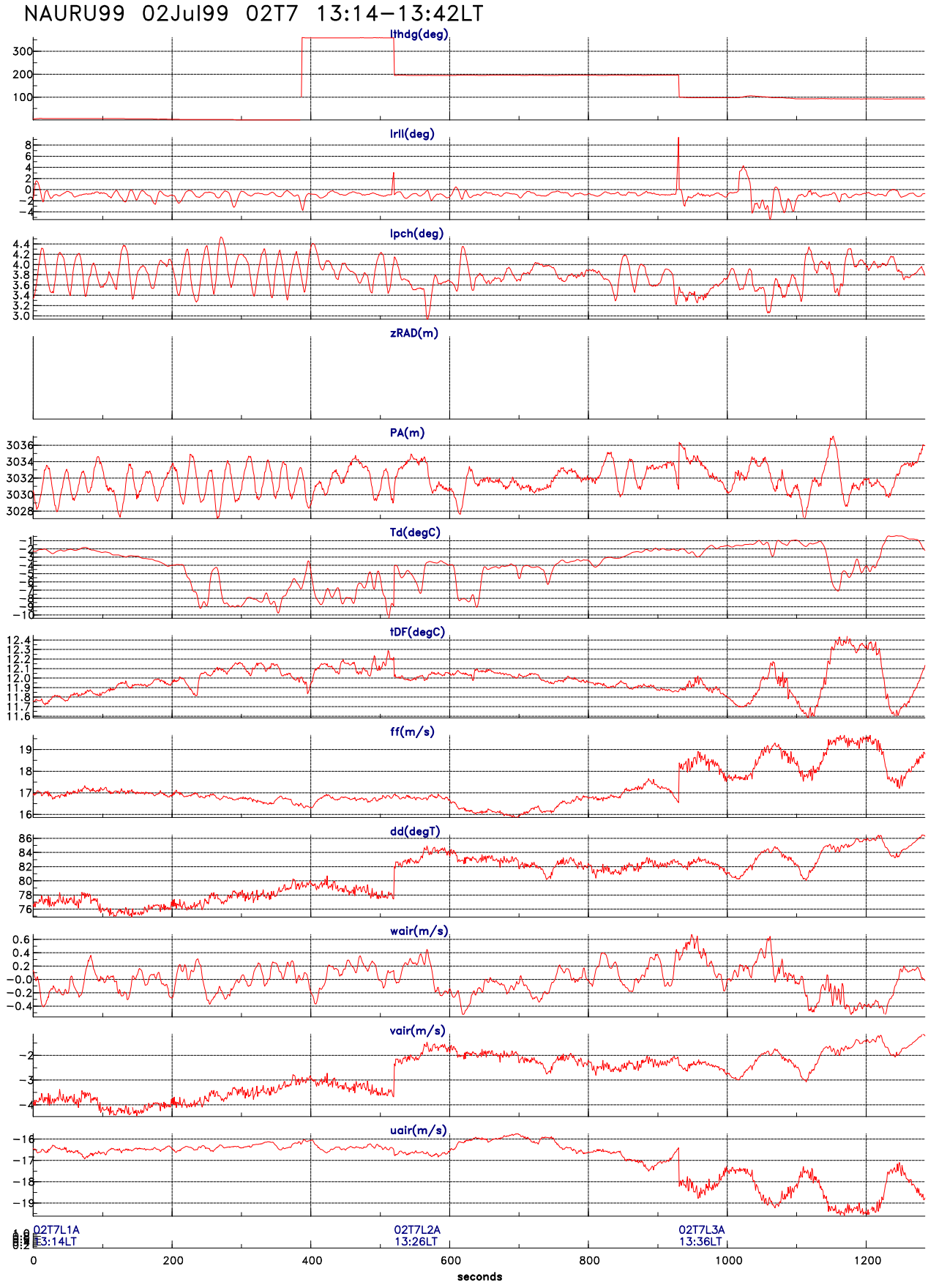

NAURU99 02Jul99 02T4 11:24–11:52LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
02T4L1A
11:24LT
02T4L2A
11:35LT
02T4L3A
11:46LT
seconds

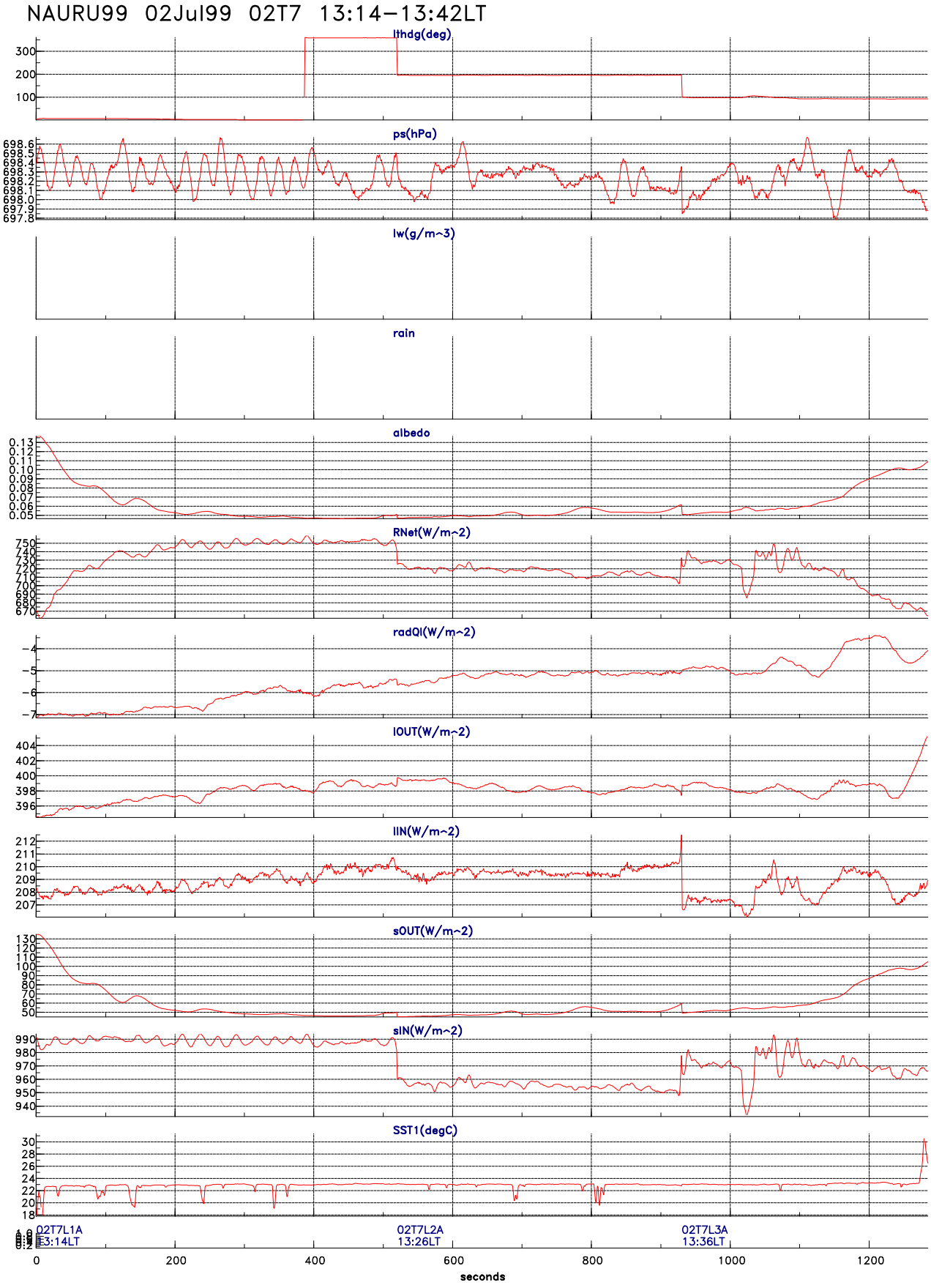

NAURU99 02Jul99 02T5 11:57–12:24LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
02T5L1A
11:57LT
02T5L2A
12:08LT
02T5L3A
12:18LT
seconds

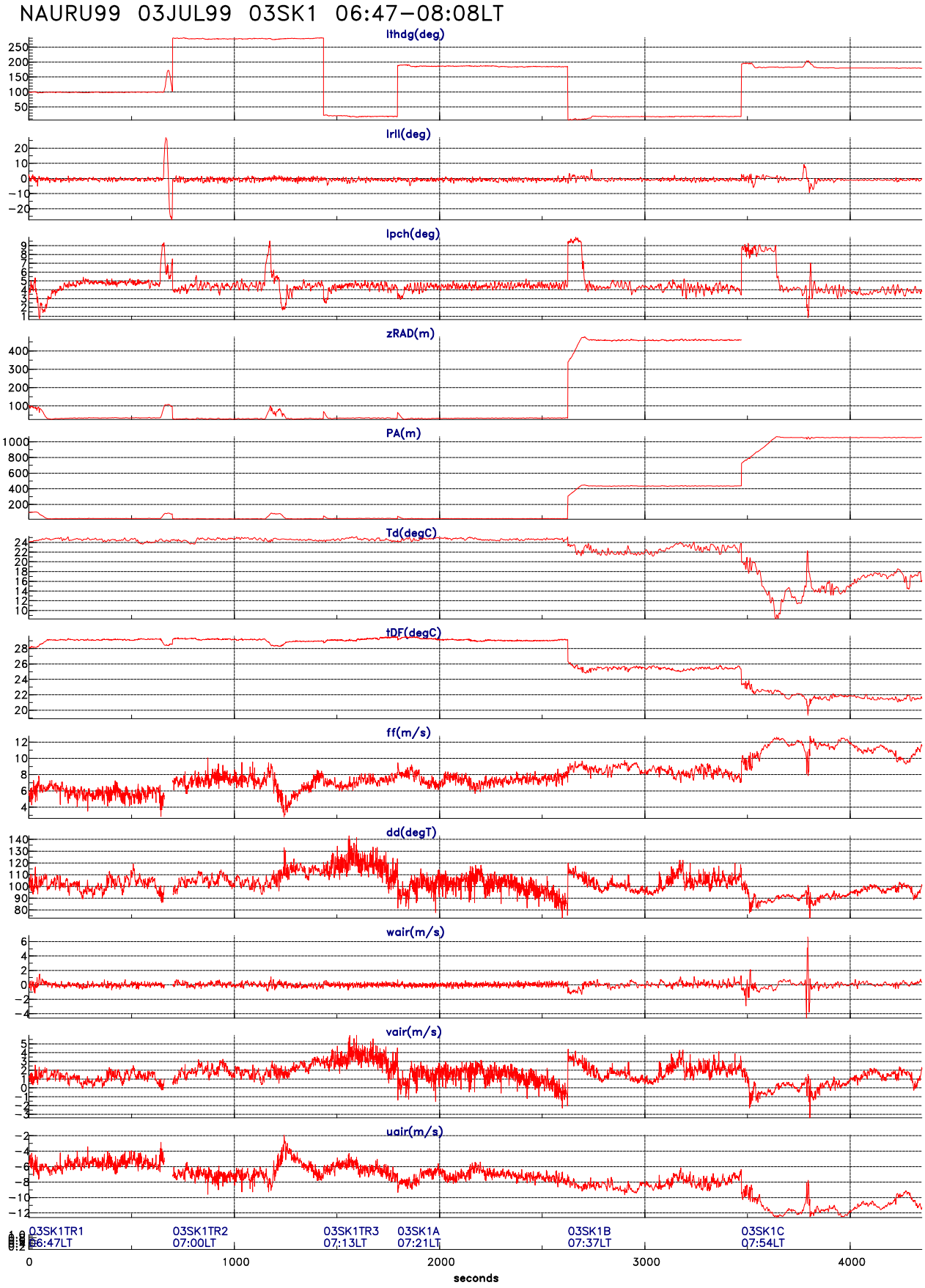

NAURU99 02Jul99 02T5 11:57–12:24LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
02T5L1A
11:57LT
02T5L2A
12:08LT
02T5L3A
12:18LT
seconds

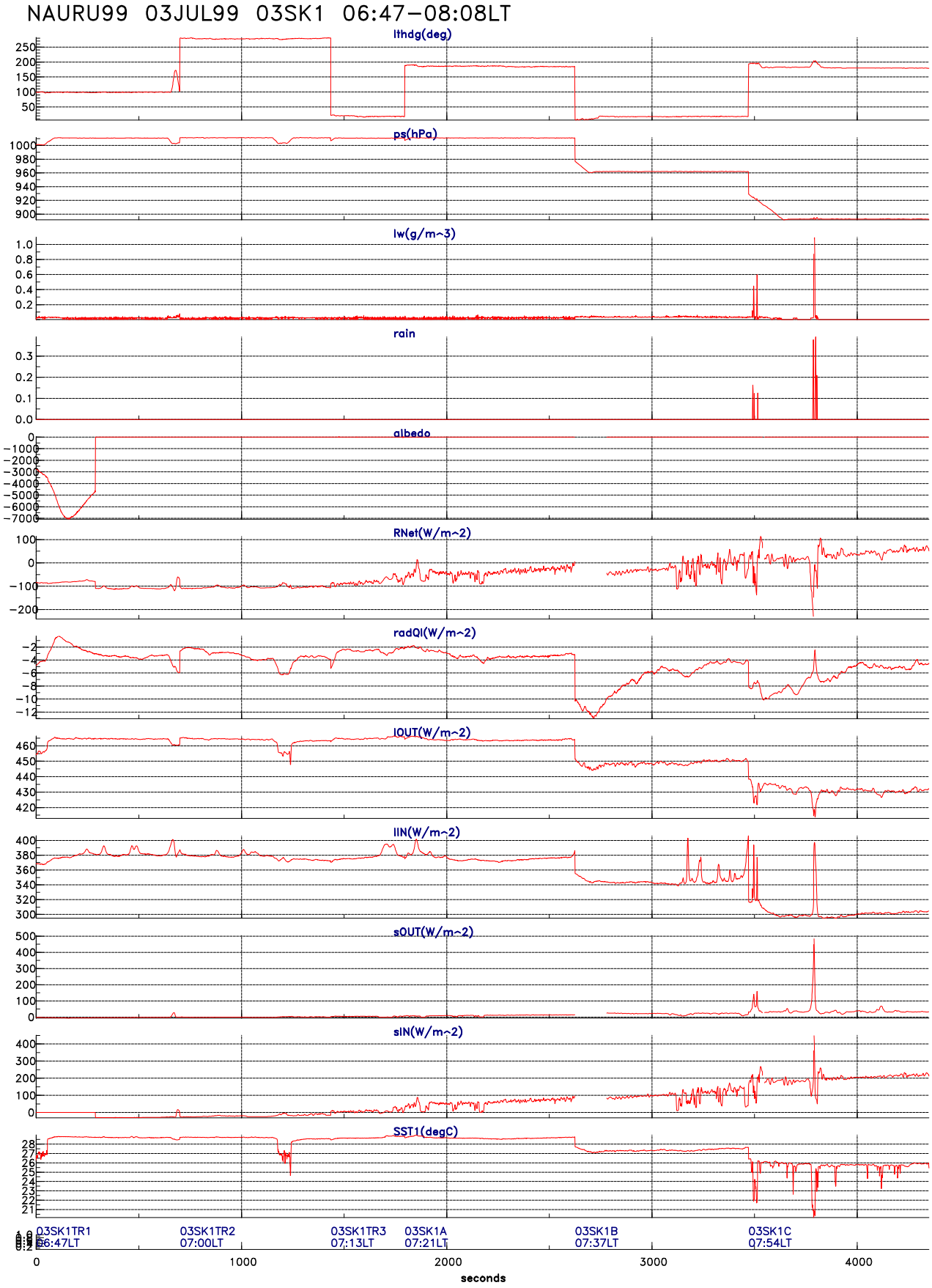

NAURU99 02Jul99 02T6 12:32–12:58LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
02T6L1A
12:32LT
02T6L2A
12:42LT
02T6L3A
12:52LT
seconds

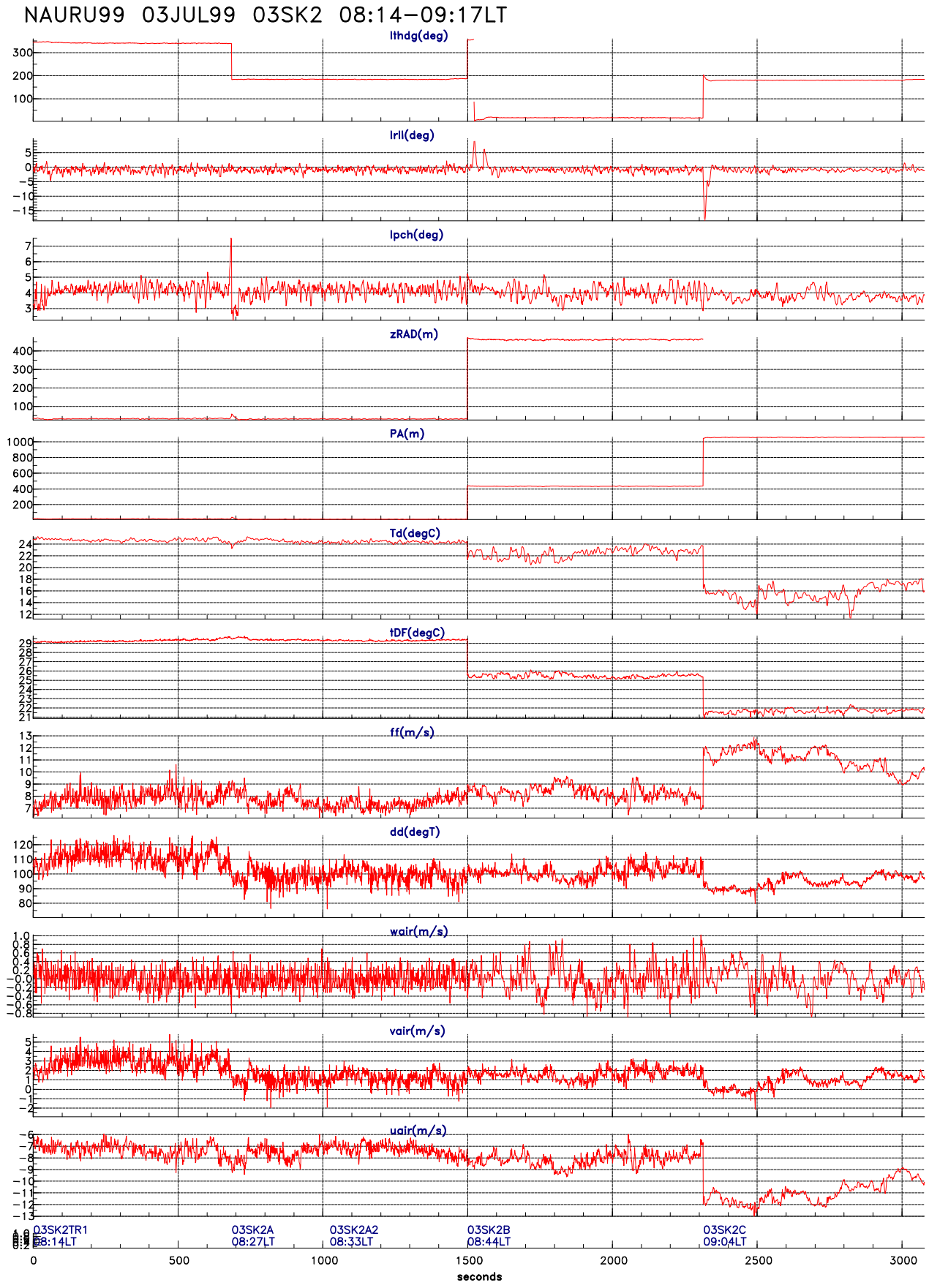

NAURU99 02Jul99 02T6 12:32–12:58LT
lthdg(deg)
ps(hPa)
lw(g/m^3)
rain
albedo
RNet(W/m^2)
radQl(W/m^2)
lOUT(W/m^2)
lIN(W/m^2)
sOUT(W/m^2)
sIN(W/m^2)
SST1(degC)
02T6L1A
12:32LT
02T6L2A
12:42LT
02T6L3A
12:52LT
seconds

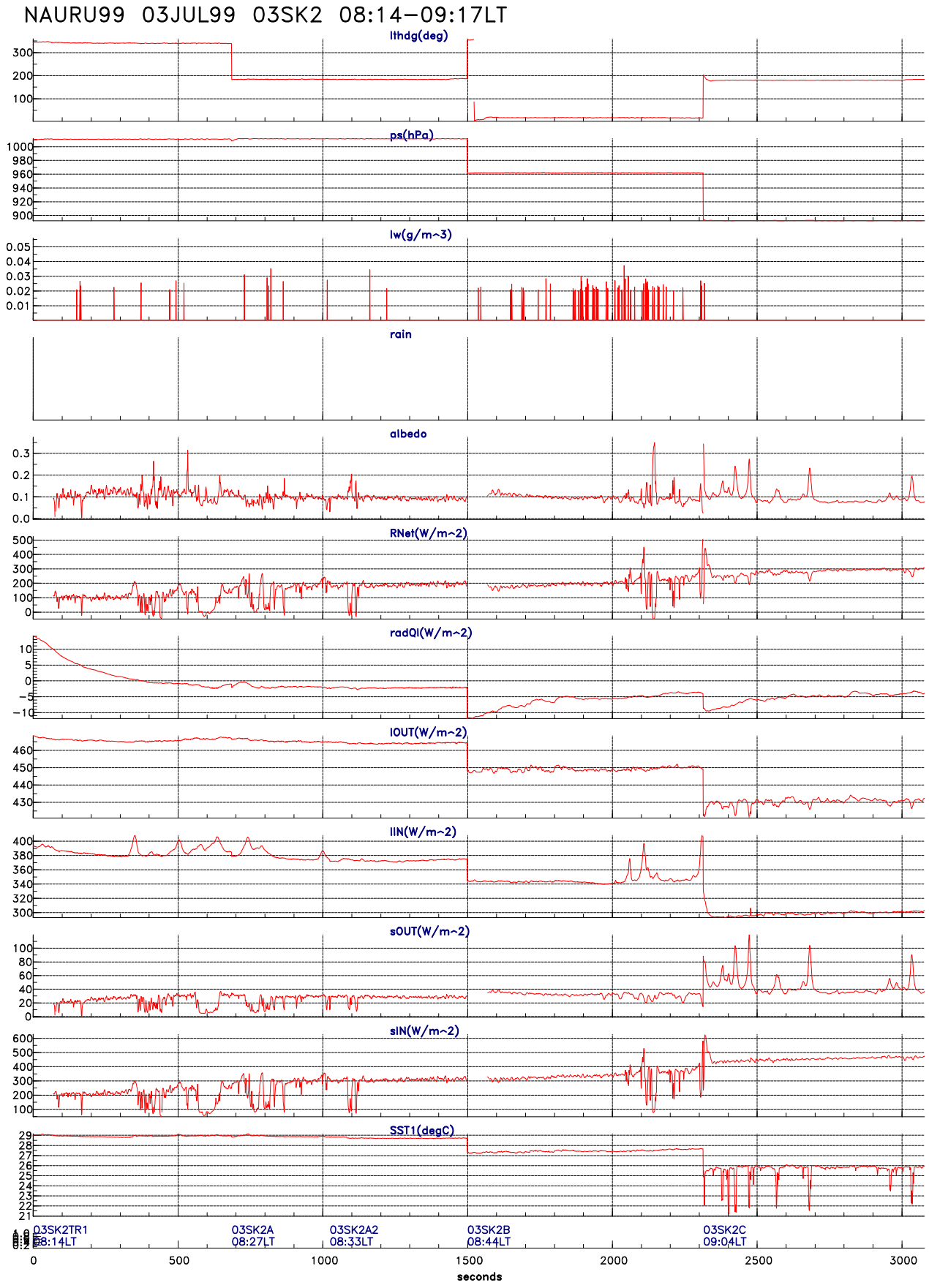

NAURU99 02Jul99 02T7 13:14–13:42LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
02T7L1A
13:14LT
02T7L2A
13:26LT
02T7L3A
13:36LT
seconds

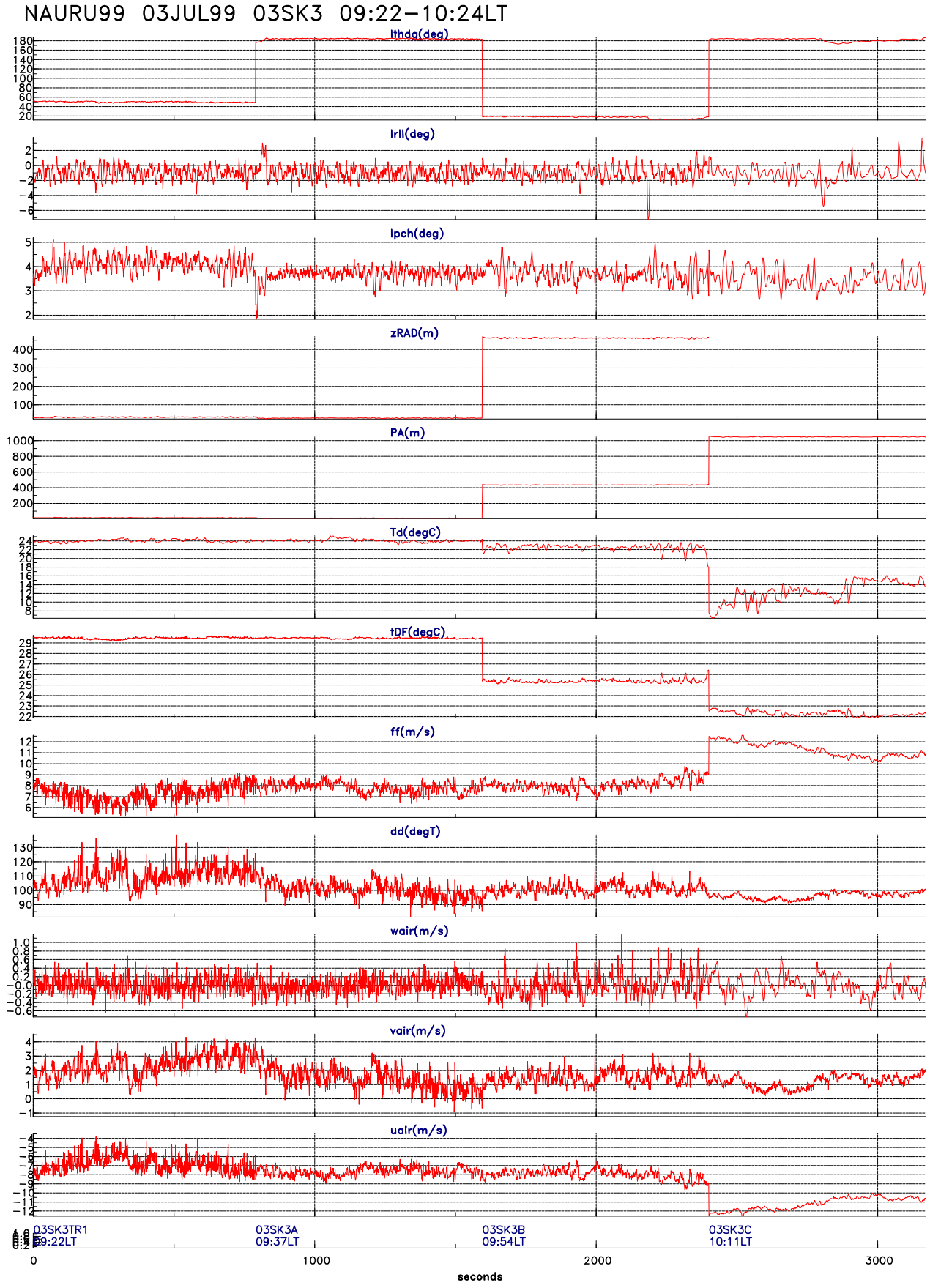

NAURU99 02Jul99 02T7 13:14–13:42LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
02T7L1A
13:14LT
02T7L2A
13:26LT
02T7L3A
13:36LT
seconds

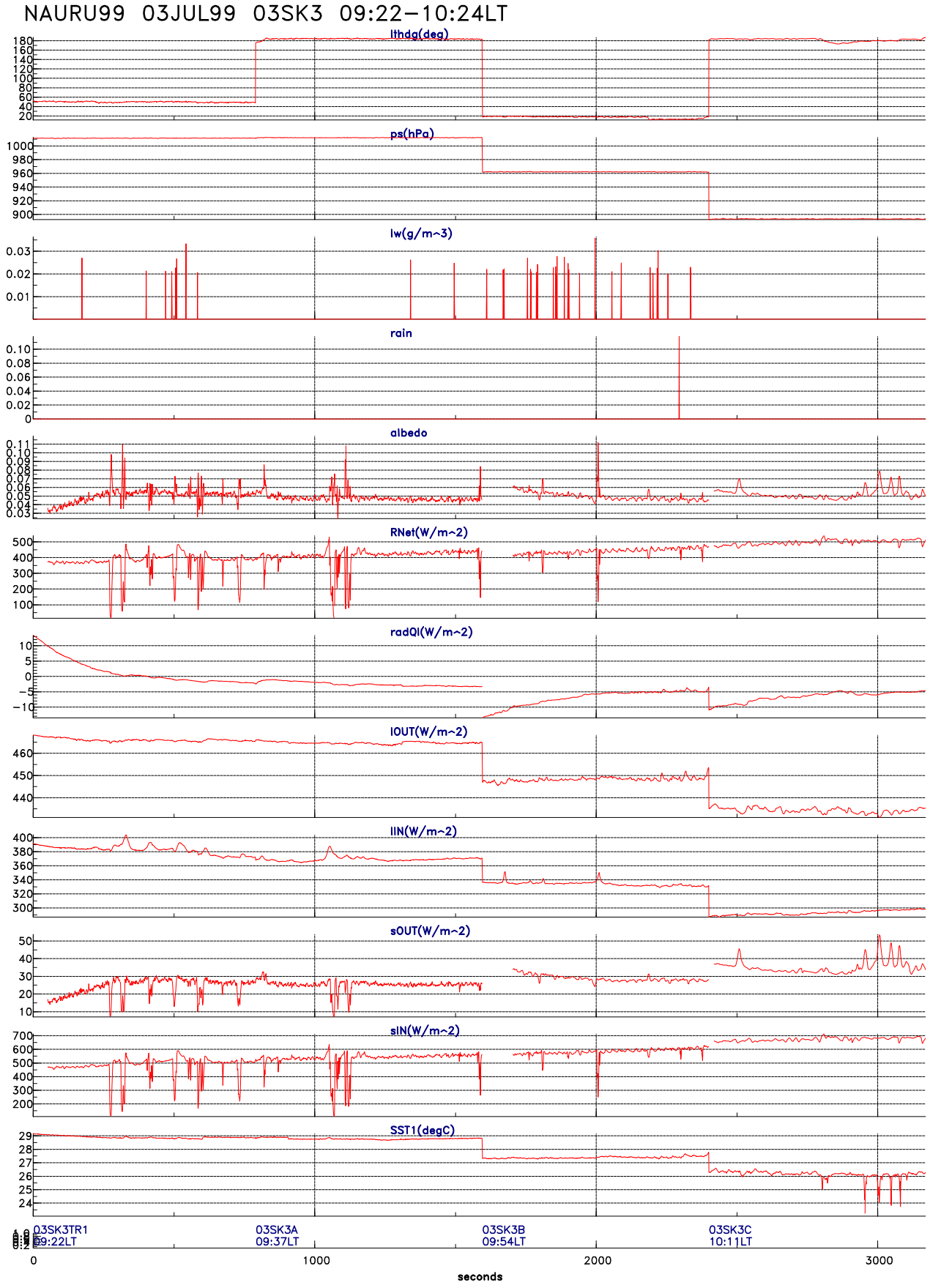

NAURU99 03JUL99 03SK1 06:47–08:08LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
03SK1TR1
06:47LT
03SK1TR2
07:00LT
03SK1TR3
07:13LT
03SK1A
07:21LT
03SK1B
07:37LT
03SK1C
07:54LT
0
1000
2000
3000
4000
seconds

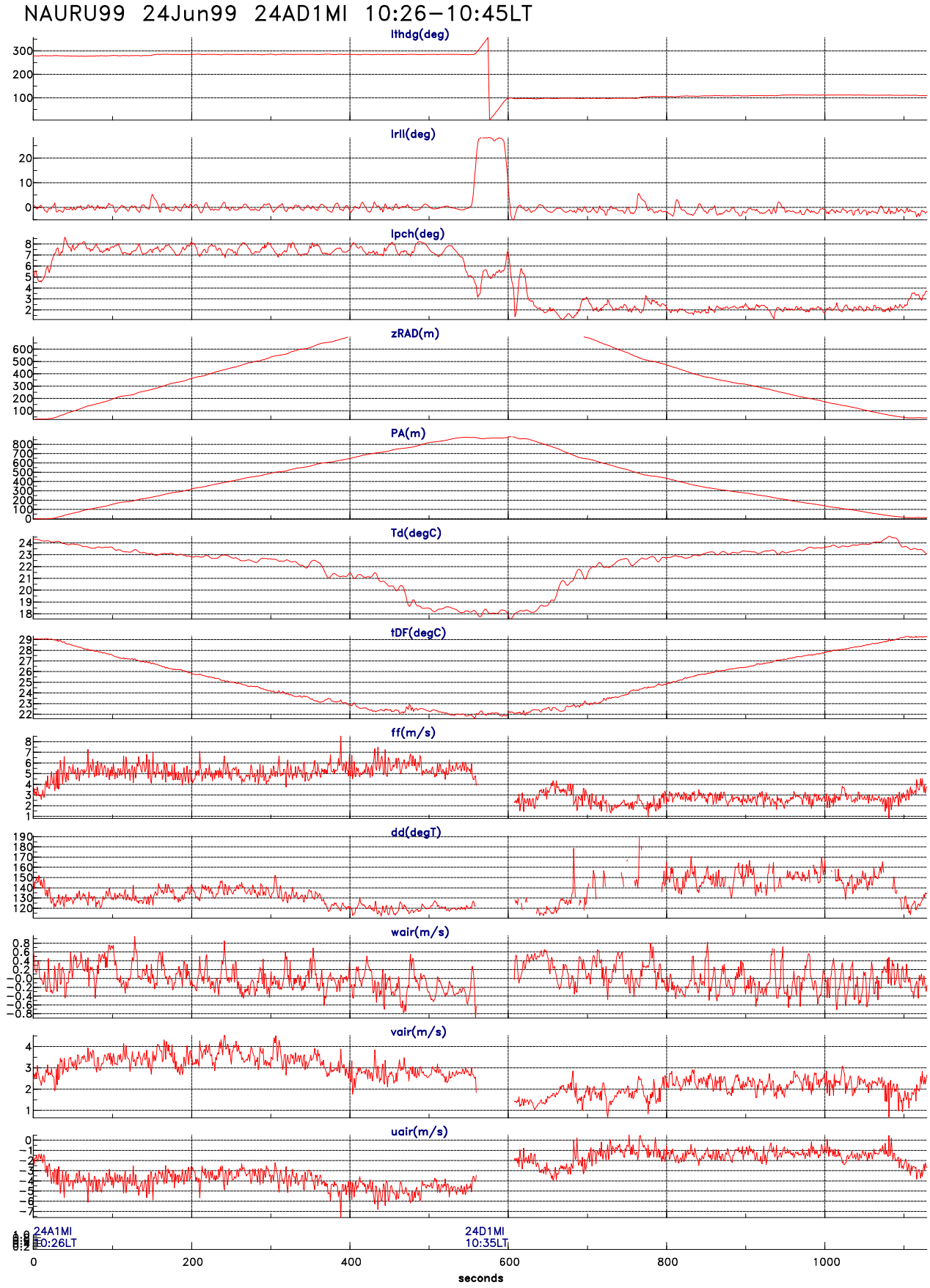

NAURU99 03JUL99 03SK1 06:47–08:08LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
03SK1TR1 06:47LT
03SK1TR2 07:00LT
03SK1TR3 07:13LT
03SK1A 07:21LT
03SK1B 07:37LT
03SK1C 07:54LT
seconds

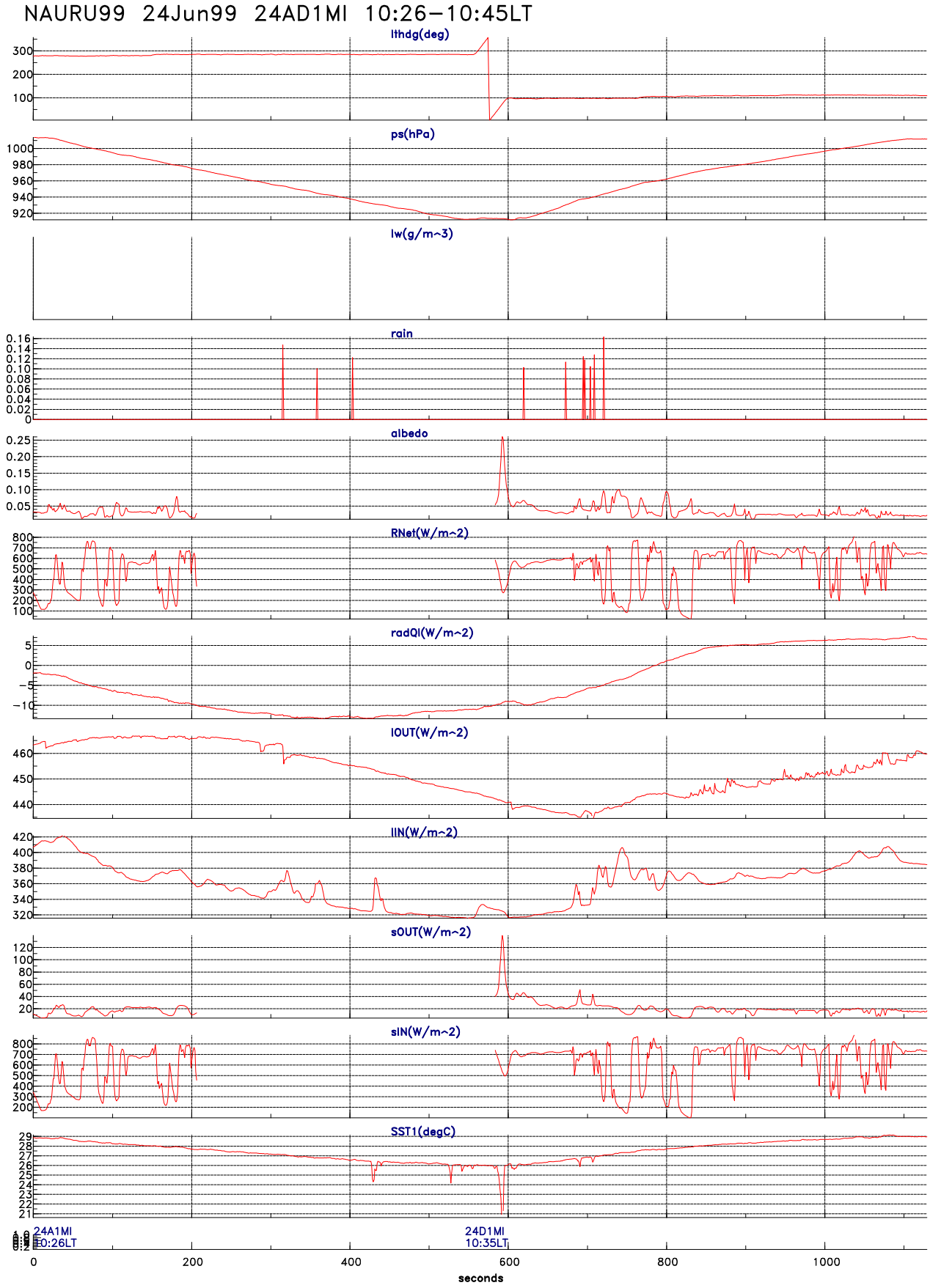

NAURU99 03JUL99 03SK2 08:14–09:17LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
03SK2TR1
08:14LT
03SK2A
08:27LT
03SK2A2
08:33LT
03SK2B
08:44LT
03SK2C
09:04LT
seconds

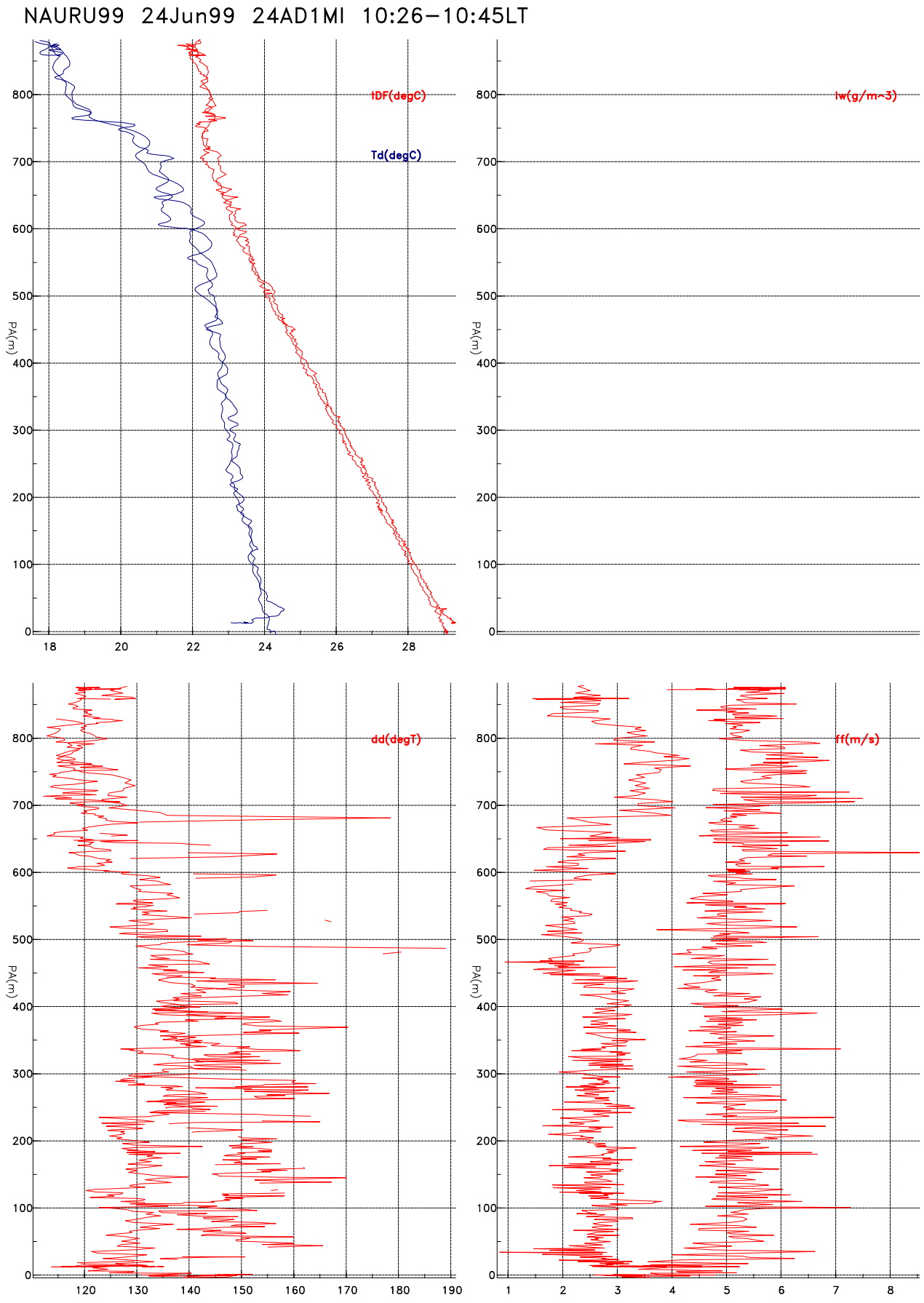

NAURU99 03JUL99 03SK2 08:14–09:17LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
03SK2TR1
08:14LT
03SK2A
08:27LT
03SK2A2
08:33LT
03SK2B
08:44LT
03SK2C
09:04LT
seconds

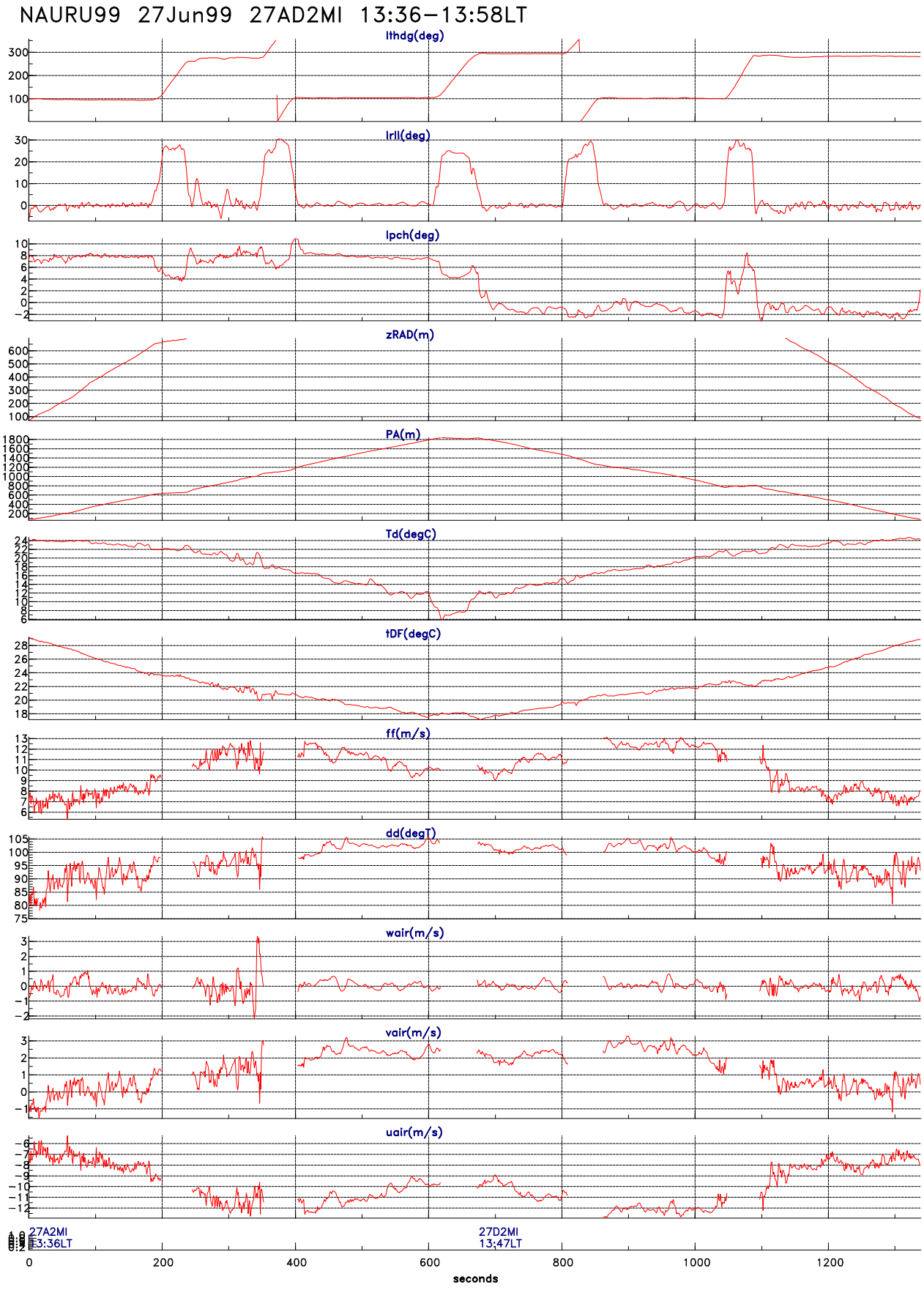

NAURU99 03JUL99 03SK3 09:22–10:24LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
03SK3TR1
09:22LT
03SK3A
09:37LT
03SK3B
09:54LT
03SK3C
10:11LT
0
1000
2000
3000
seconds

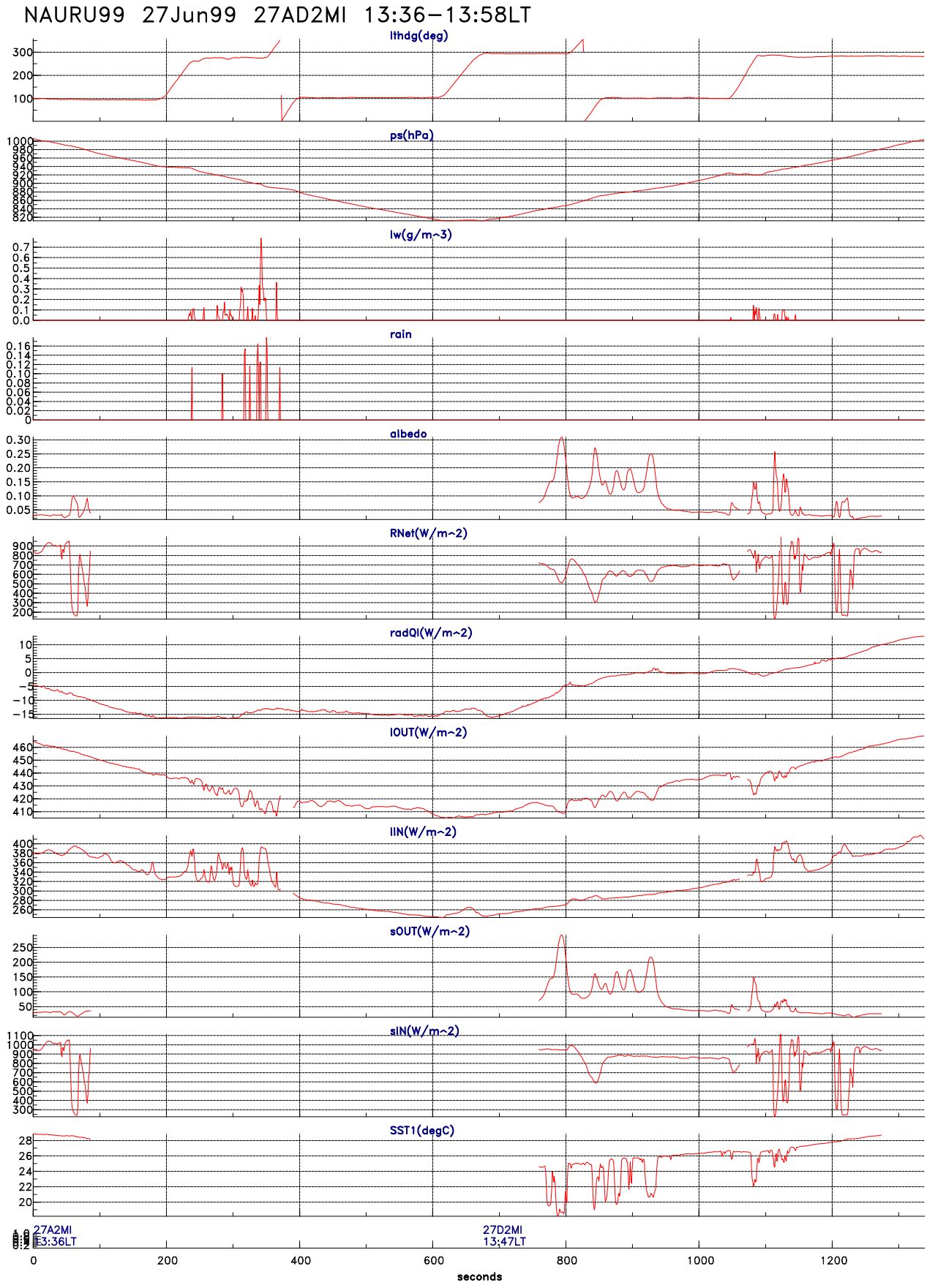

NAURU99 03JUL99 03SK3 09:22–10:24LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
03SK3TR1
09:22LT
03SK3A
09:37LT
03SK3B
09:54LT
03SK3C
10:11LT
seconds

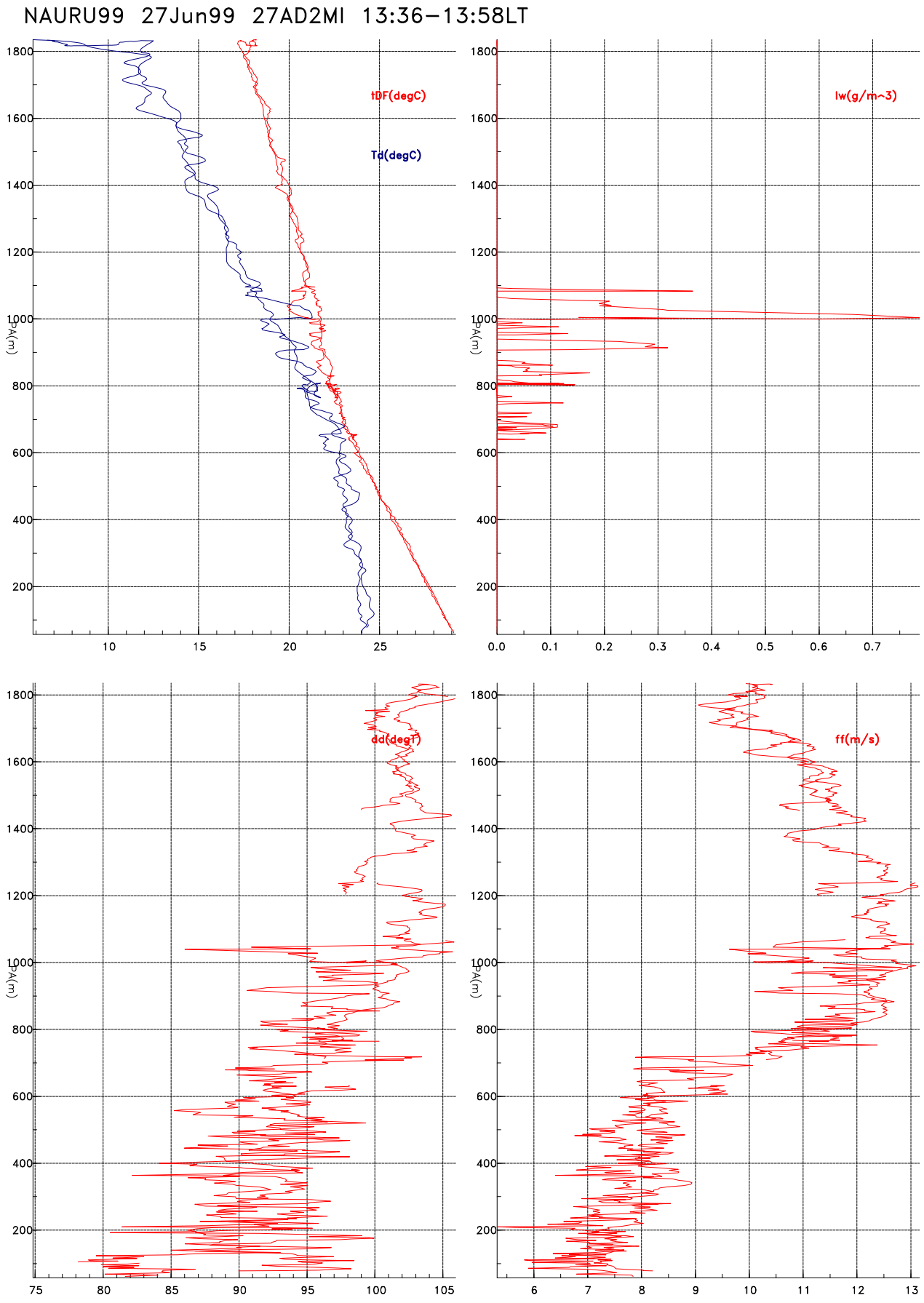

NAURU99 24Jun99 24AD1MI 10:26–10:45LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
24A1MI
10:26LT
24D1MI
10:35LT
seconds

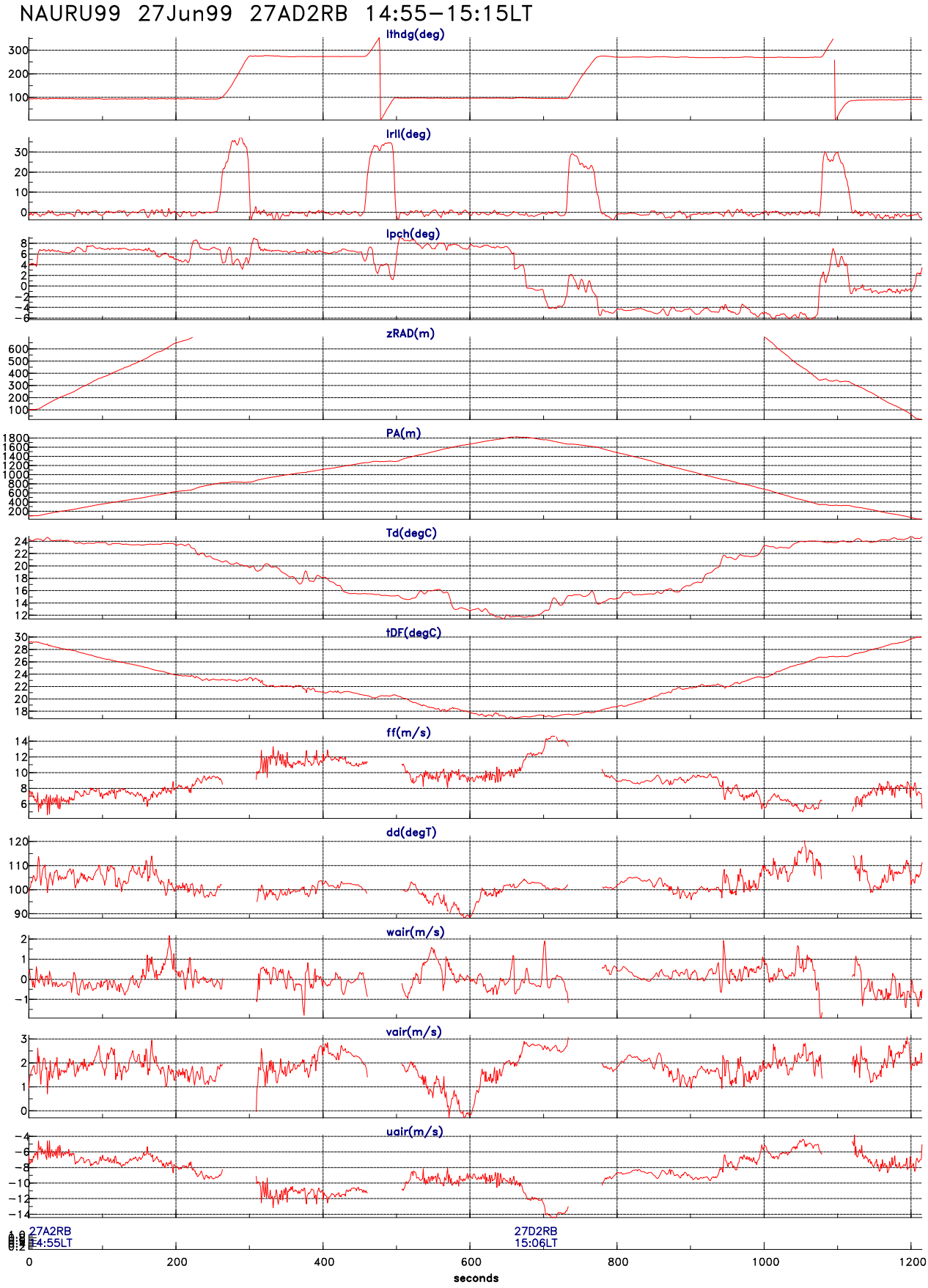

NAURU99 24Jun99 24AD1MI 10:26–10:45LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
24A1MI
10:26LT
24D1MI
10:35LT
seconds

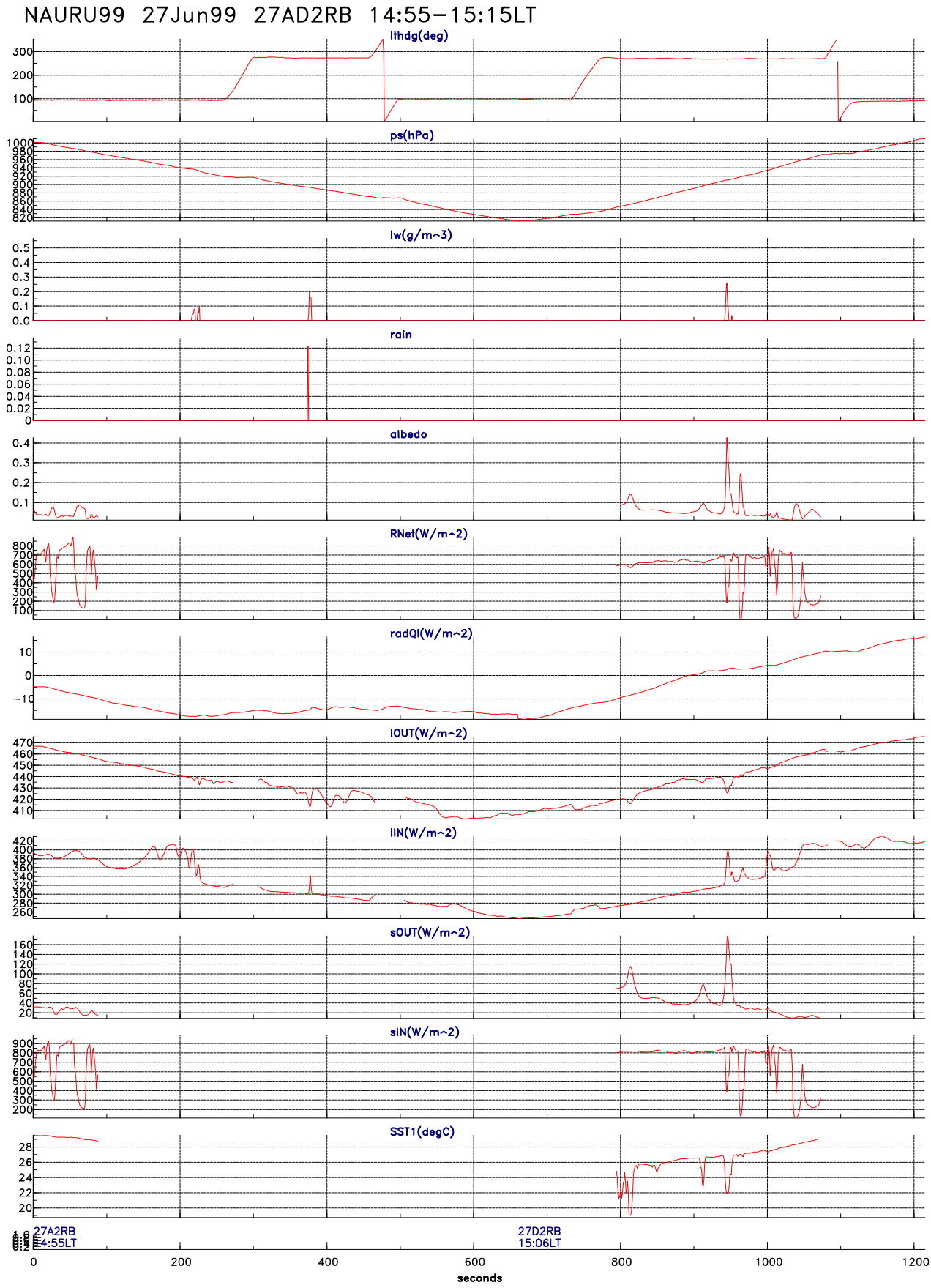

NAURU99 24Jun99 24AD1MI 10:26-10:45LT
tDF(degC)
Td(degC)
PA(m)
18
20
22
24
26
28
lw(g/m^3)
dd(degT)
ff(m/s)
0
100
200
300
400
500
600
700
800
120
130
140
150
160
170
180
190
1
2
3
4
5
6
7
8

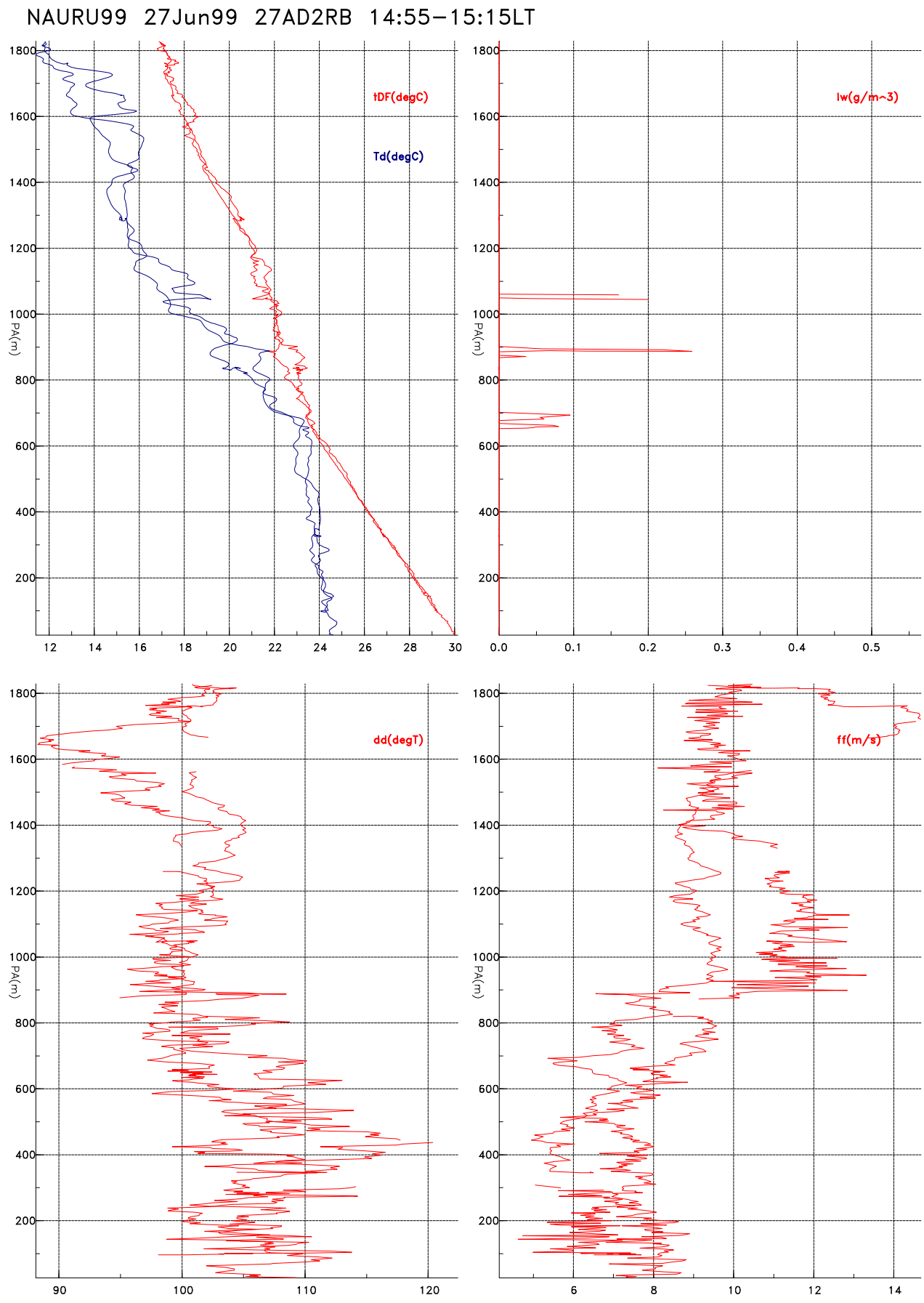

NAURU99 27Jun99 27AD2MI 13:36–13:58LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
27A2MI
13:36LT
27D2MI
13:47LT
seconds

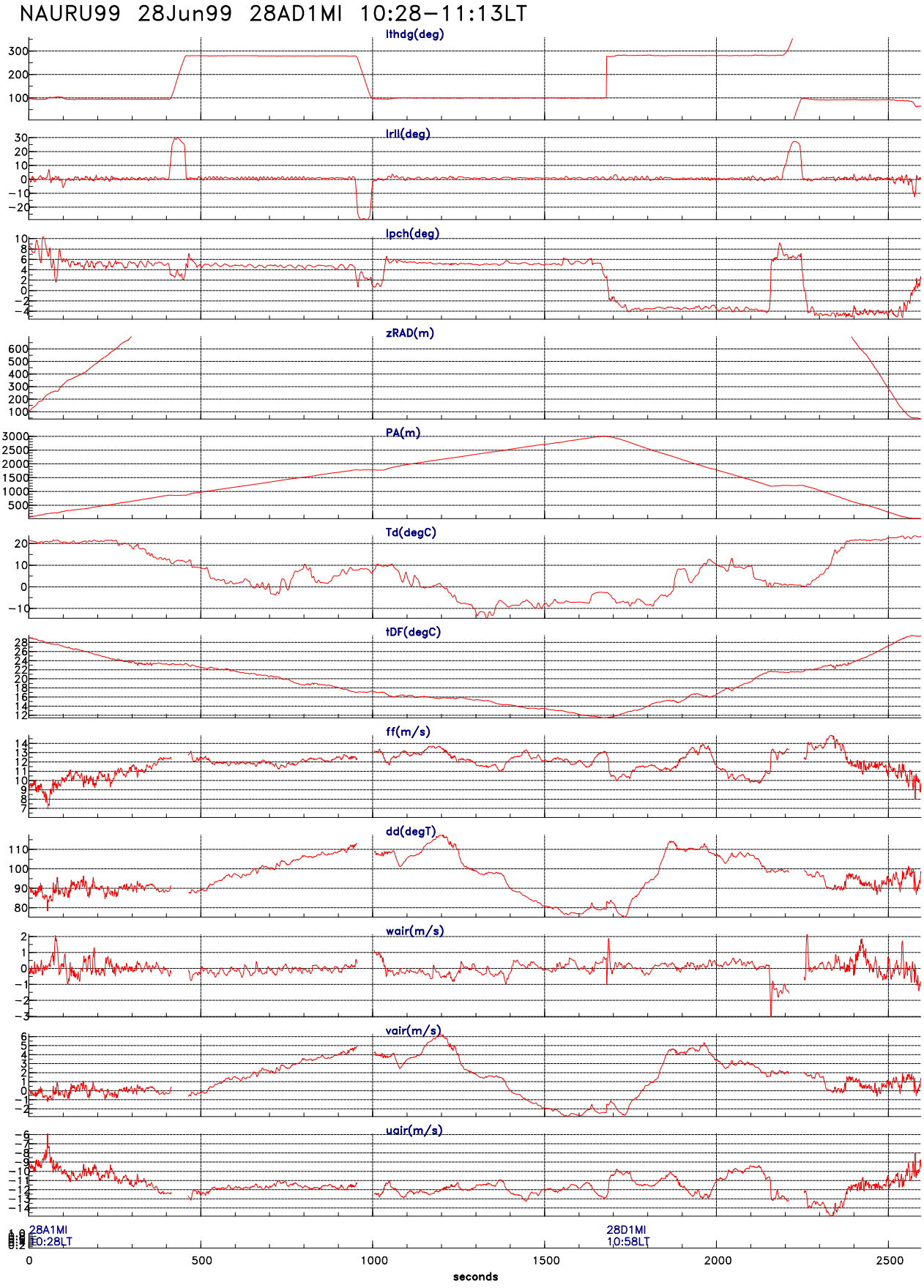

NAURU99 27Jun99 27AD2MI 13:36–13:58LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
27A2MI
13:36LT
27D2MI
13:47LT
seconds

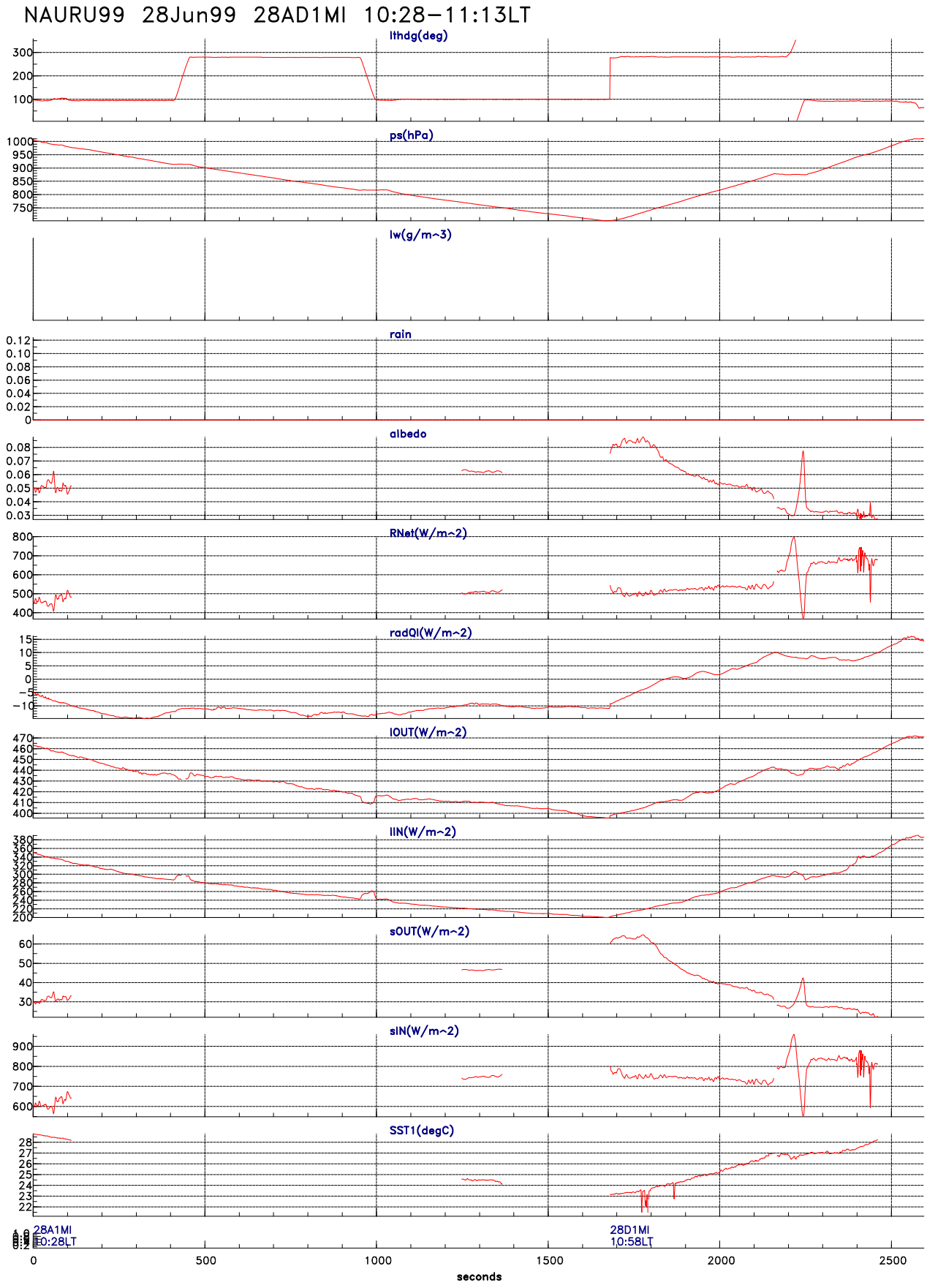

NAURU99 27Jun99 27AD2MI 13:36-13:58LT
tDF(degC)
Td(degC)
lw(g/m^3)
dd(degT)
ff(m/s)
PA(m)

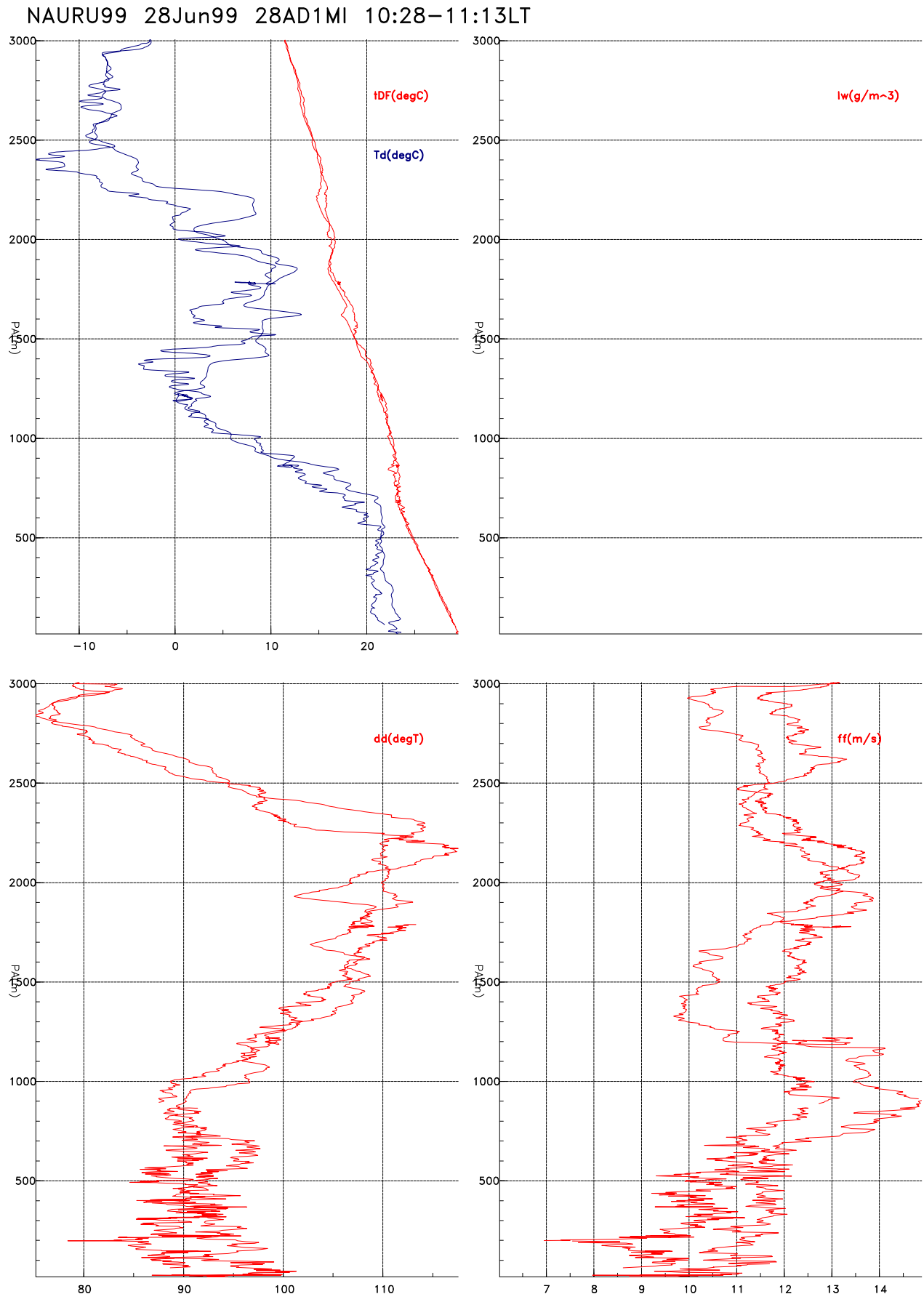

NAURU99 27Jun99 27AD2RB 14:55–15:15LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
27A2RB
14:55LT
27D2RB
15:06LT
seconds

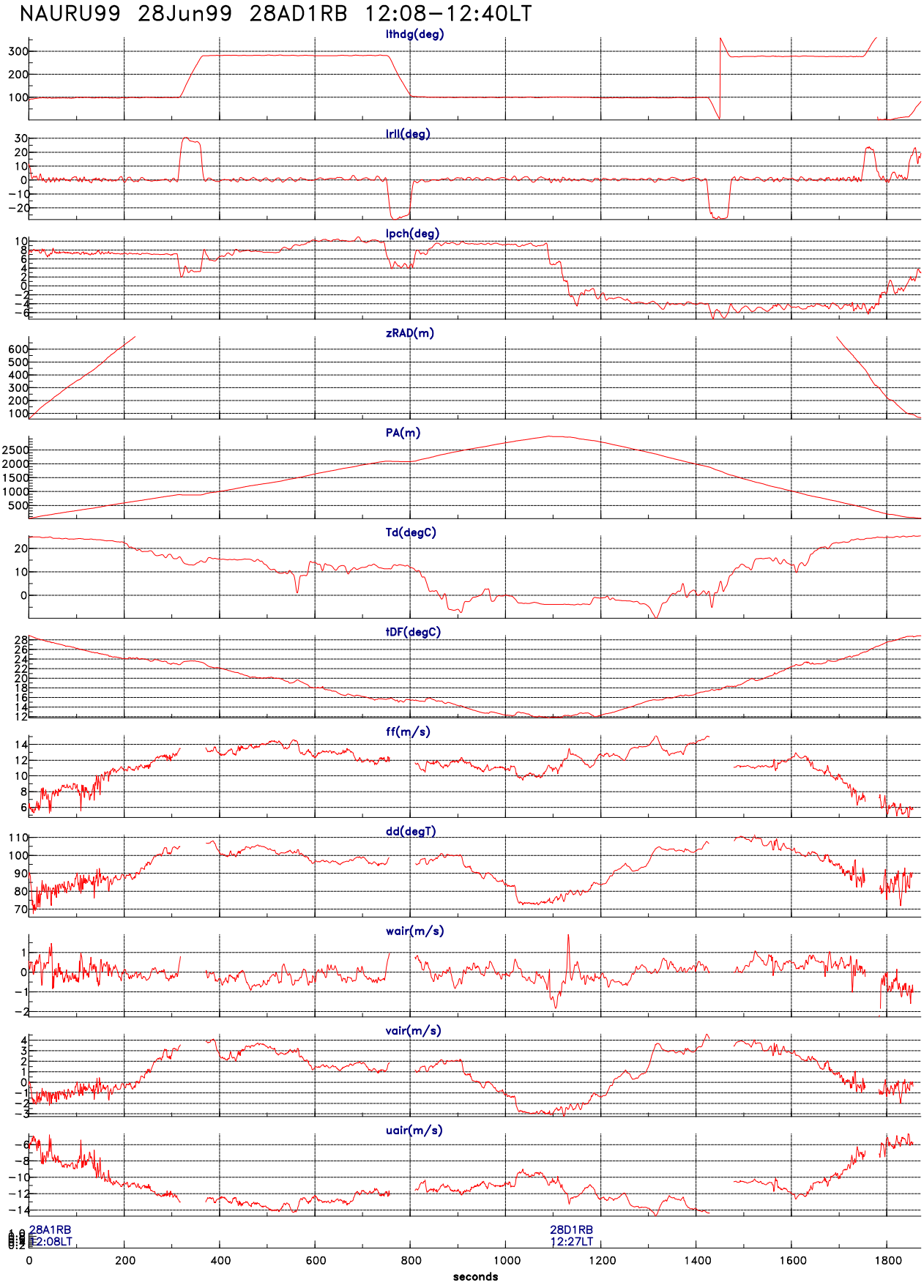

NAURU99 27Jun99 27AD2RB 14:55–15:15LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
27A2RB
14:55LT
27D2RB
15:06LT
seconds

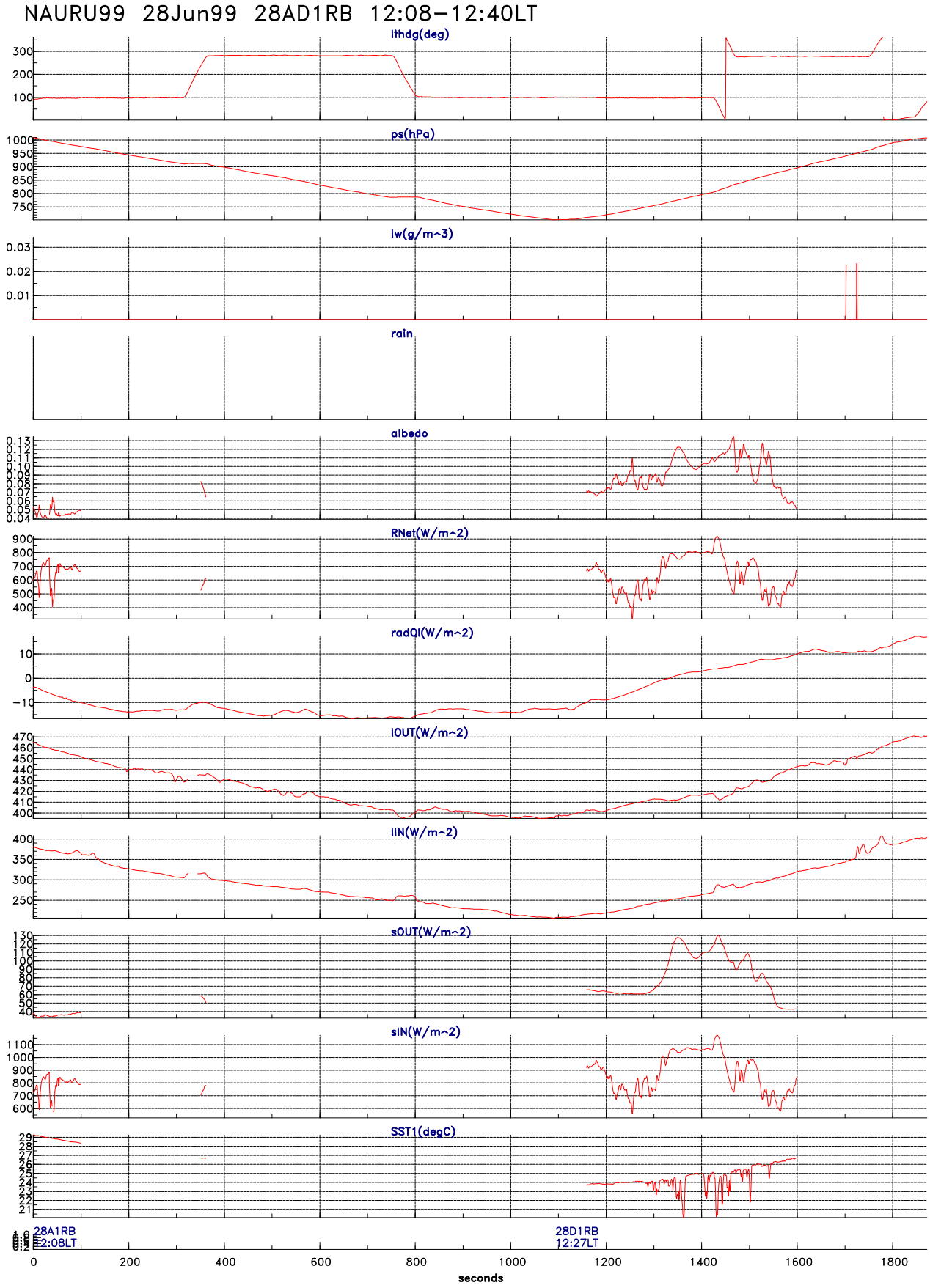

NAURU99 27Jun99 27AD2RB 14:55-15:15LT
tDF(degC)
Td(degC)
lw(g/m^3)
dd(degT)
ff(m/s)
PA(m)

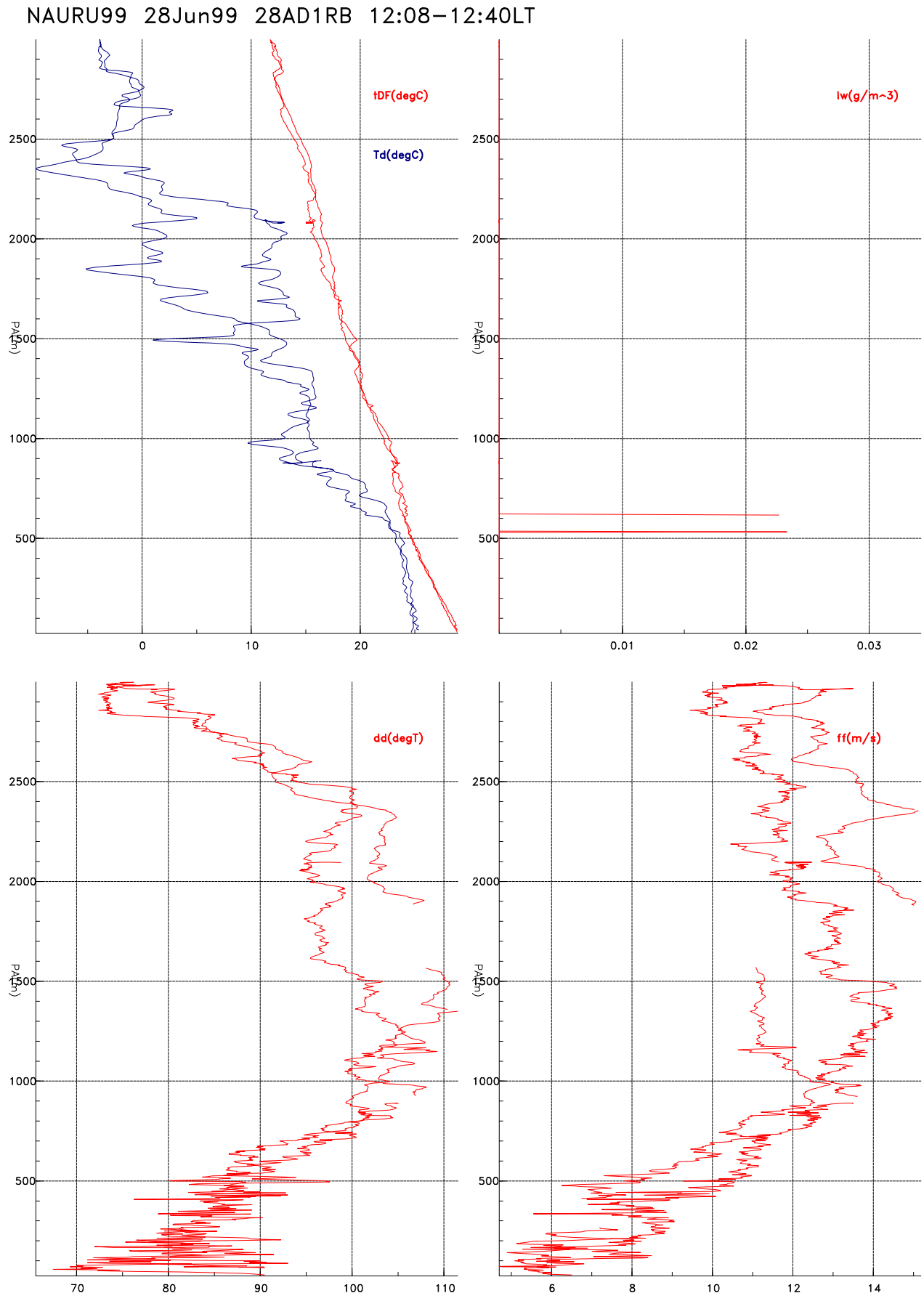

NAURU99 28Jun99 28AD1MI 10:28–11:13LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
28A1MI
10:28LT
28D1MI
11:58LT
seconds

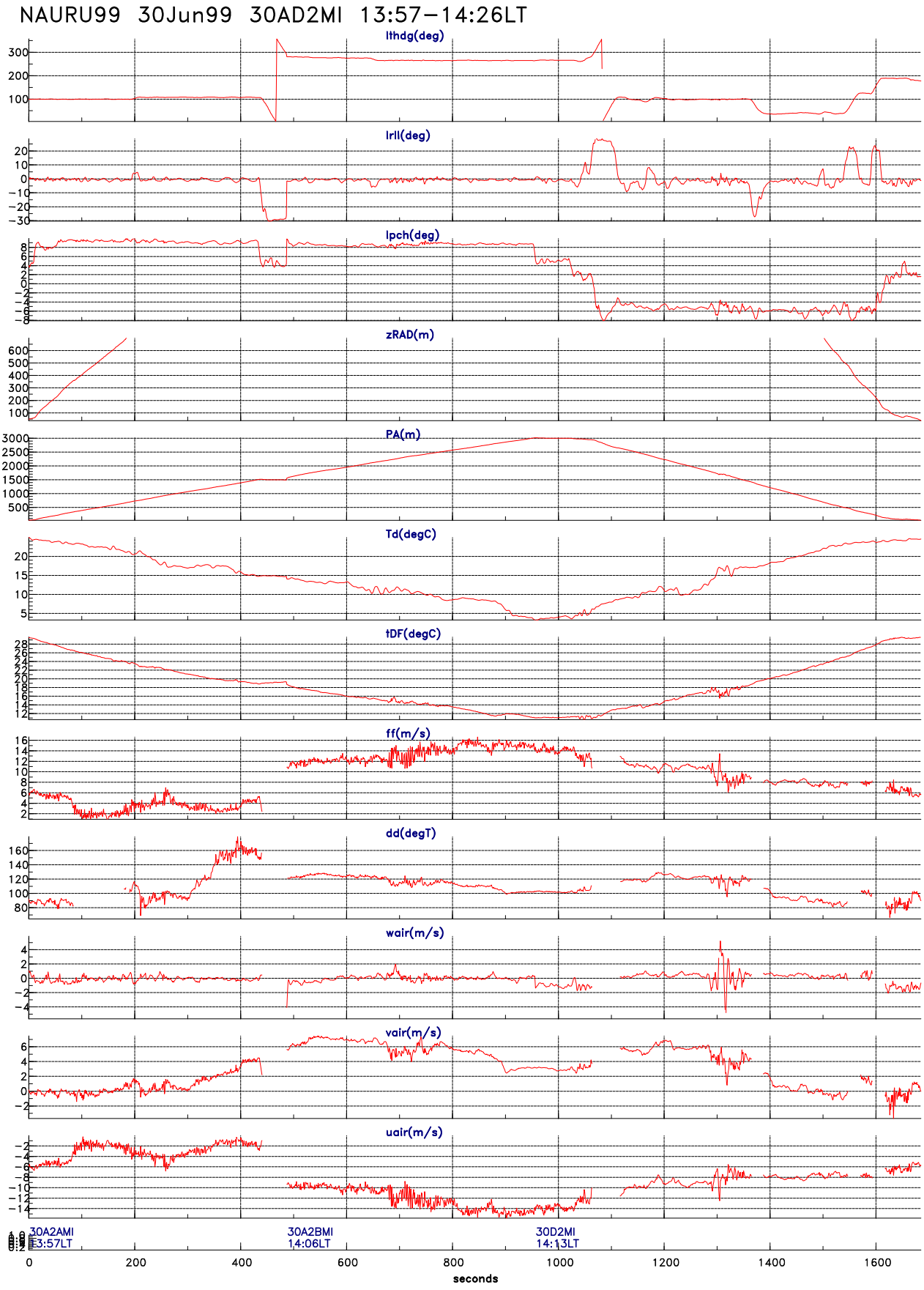

NAURU99 28Jun99 28AD1MI 10:28–11:13LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
28A1MI
10:28LT
28D1MI
11:58LT
seconds

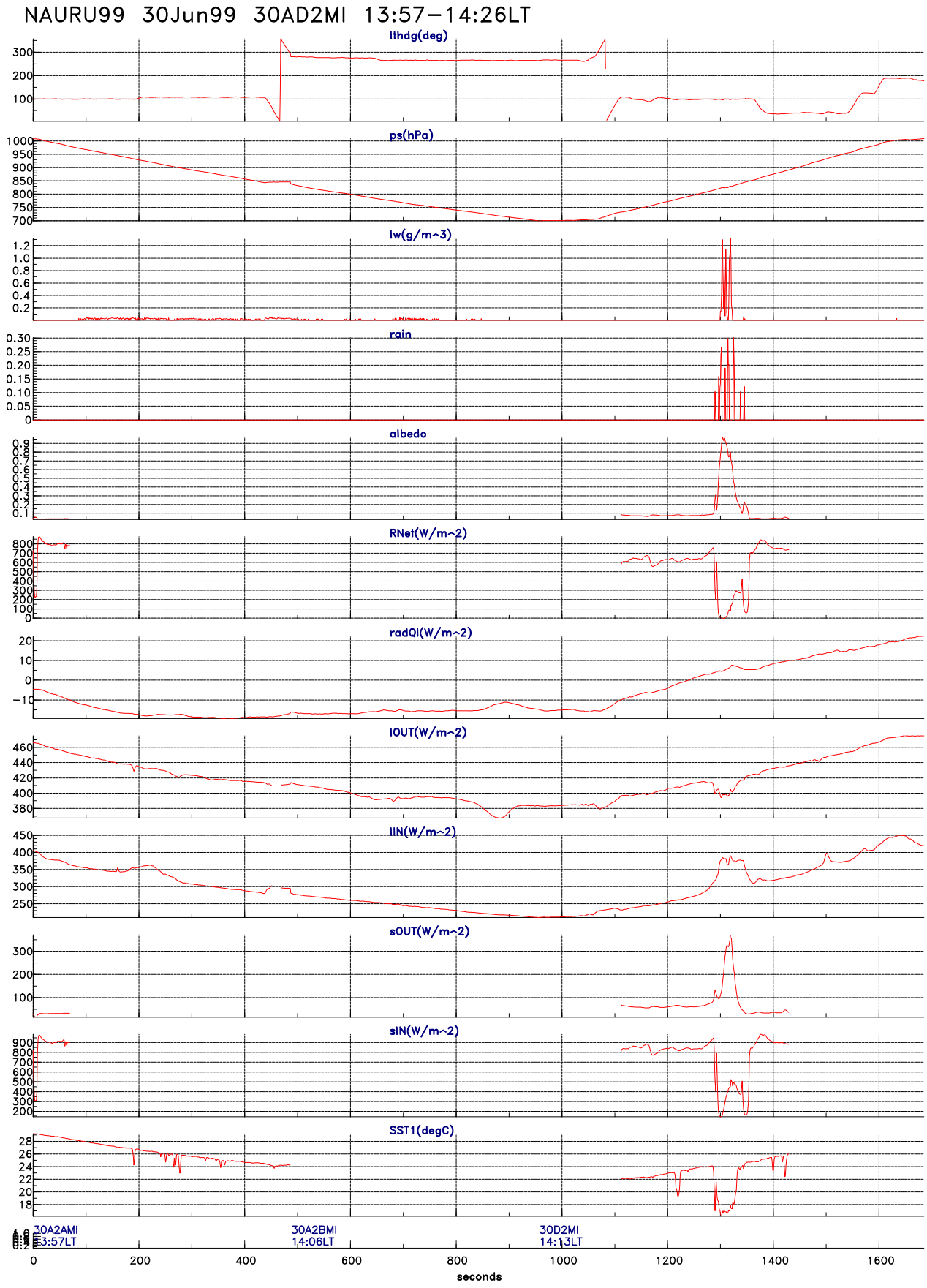

NAURU99 28Jun99 28AD1MI 10:28-11:13LT
tDF(degC)
Td(degC)
lw(g/m^3)
dd(degT)
ff(m/s)
PA(m)
3000
2500
2000
1500
1000
500
-10
0
10
20
80
90
100
110
7
8
9
10
11
12
13
14

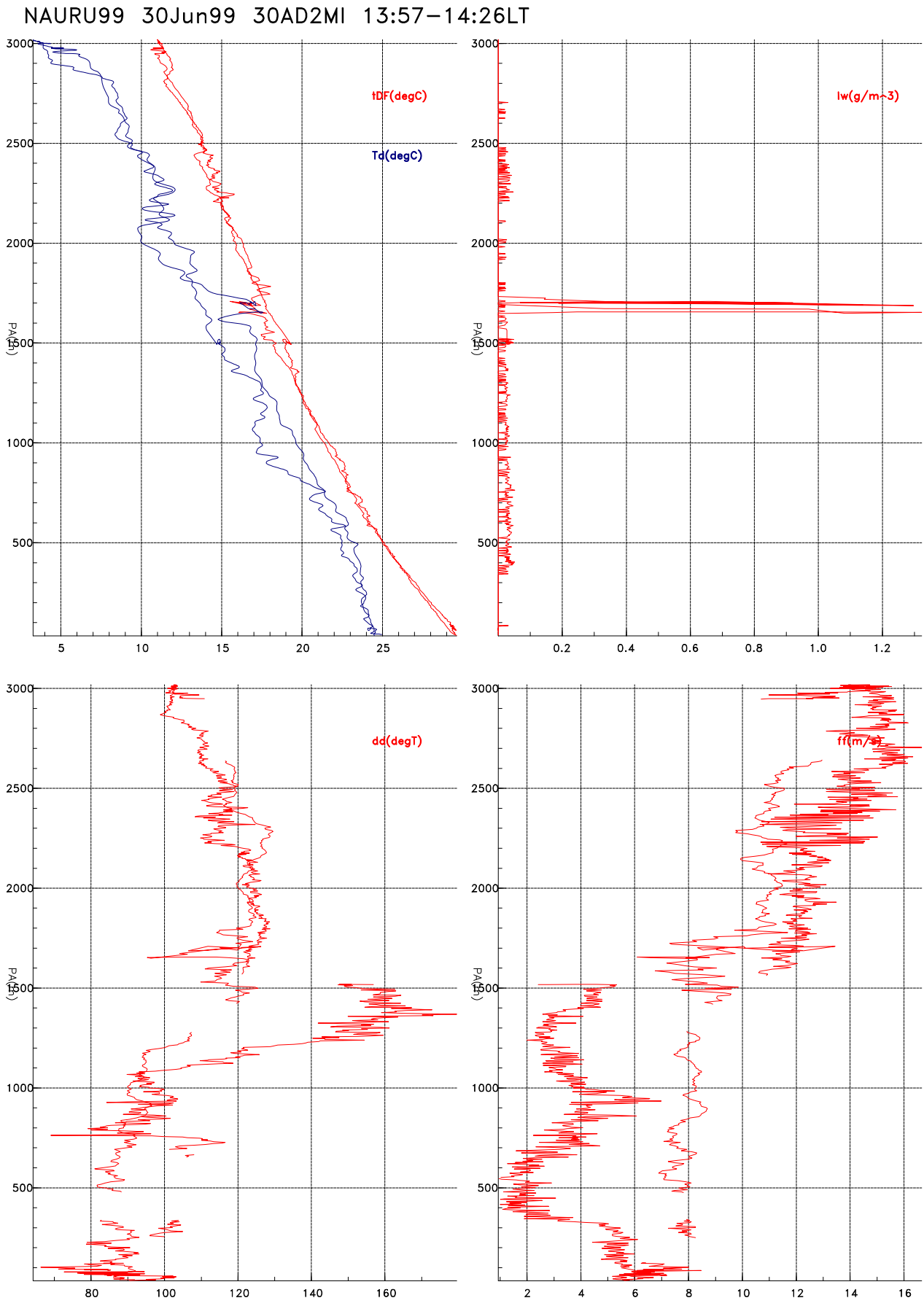

NAURU99 28Jun99 28AD1RB 12:08–12:40LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
28A1RB
12:08LT
28D1RB
12:27LT
seconds

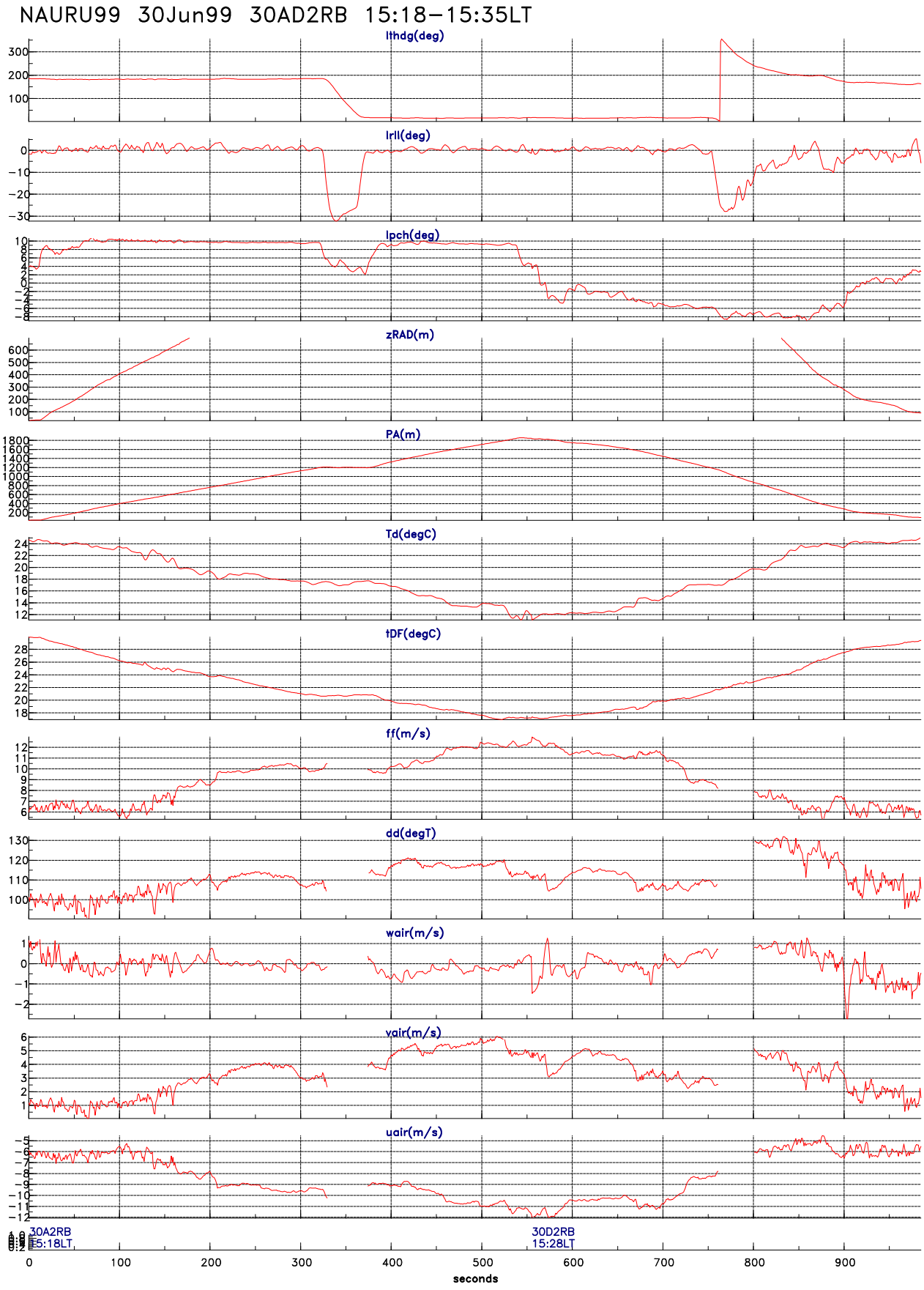

NAURU99 28Jun99 28AD1RB 12:08–12:40LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
28A1RB
12:08LT
28D1RB
12:27LT
seconds

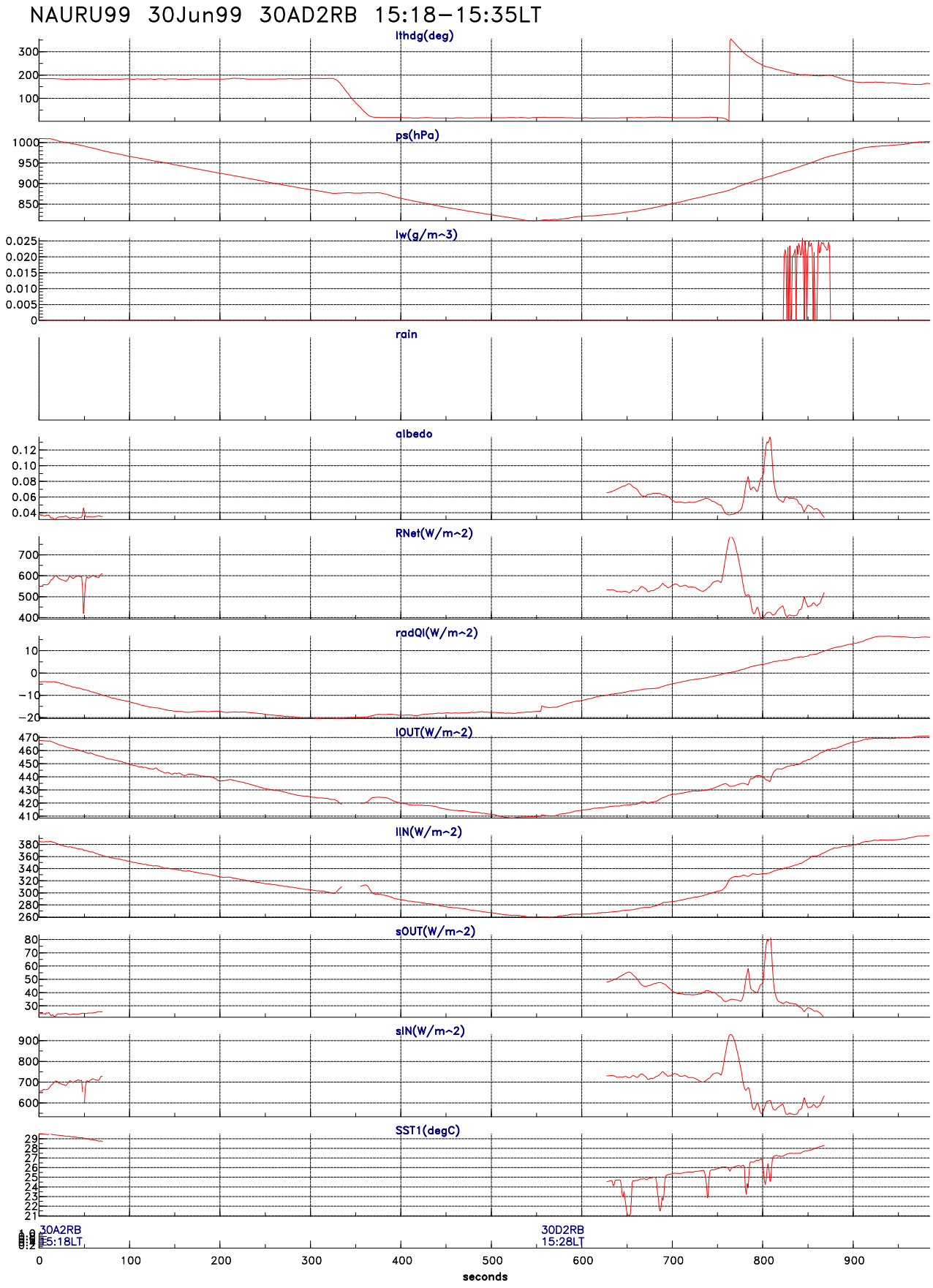

NAURU99 28Jun99 28AD1RB 12:08-12:40LT
tDF(degC)
Td(degC)
lw(g/m^3)
dd(degT)
ff(m/s)
PA(m)
2500
2000
1500
1000
500
0
10
20
0.01
0.02
0.03
70
80
90
100
110
6
8
10
12
14

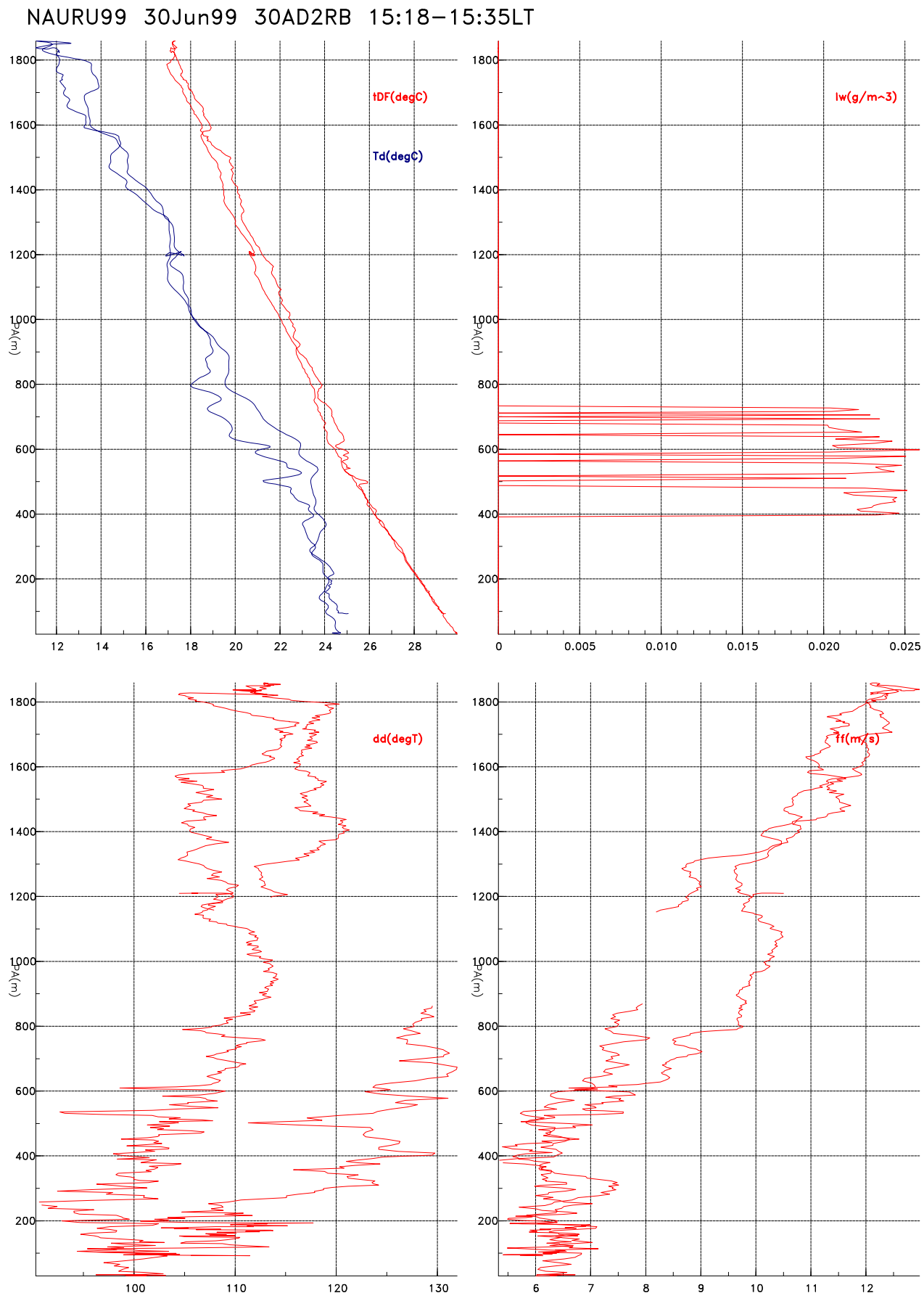

NAURU99 30Jun99 30AD2MI 13:57–14:26LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
30A2AMI
13:57LT
30A2BMI
14:06LT
30D2MI
14:13LT
seconds


NAURU99 30Jun99 30AD2MI 13:57−14:26LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
albedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
30A2AMI
13:57LT
30A2BMI
14:06LT
30D2MI
14:13LT
seconds


NAURU99 30Jun99 30AD2MI 13:57-14:26LT
tDF(degC)
Td(degC)
lw(g/m-3)
dd(degT)
ff(m/s)
PA(hPa)


NAURU99 30Jun99 30AD2RB 15:18–15:35LT
lthdg(deg)
lrll(deg)
lpch(deg)
zRAD(m)
PA(m)
Td(degC)
tDF(degC)
ff(m/s)
dd(degT)
wair(m/s)
vair(m/s)
uair(m/s)
30A2RB
15:18LT
30D2RB
15:28LT
seconds


NAURU99 30Jun99 30AD2RB 15:18–15:35LT
lthdg(deg)
ps(hPa)
lw(g/m~3)
rain
qlbedo
RNet(W/m~2)
radQl(W/m~2)
lOUT(W/m~2)
lIN(W/m~2)
sOUT(W/m~2)
sIN(W/m~2)
SST1(degC)
30A2RB
15:18LT
30D2RB
15:28LT
seconds


NAURU99 30Jun99 30AD2RB 15:18-15:35LT
tDF(degC)
Td(degC)
lw(g/m^3)
dd(degT)
ff(m/s)
PA(m)