```
SYSPAR Rev. 07.09      00-07-06 22:55:37
          Initialized: 97-11-11 12:10:00
  Latest modification: 00-06-27 07:35:31


Device Type             MW15

Line description         MWV/VLF MWV/LOR      MF     MWG     SWS     PTP
Line status                  Off     Off      On On/Test     Off     Off
Cable Number                 I 5     I 5     P 4     I 6    P 1X     P 4
Line speed (bps)            9600    9600   19200    9600    1200     300
Parity                      None    None    None    None    None    None
Number of data bits            8       8       8       8       8       8
Number of stop bits            1       1       1       1       1       1
Line timeout                  10      10      10      10      30      10
Terminal / FM source     FMcable FMcable   HCopy INT c20   HCopy   HCopy
XON/XOFF type                Off     Off     Off     Off     Off     Off


Line description             PRT    PRT2    CRT1      PC    EXT1 EXT_PTU
Line status                   On      On     Off     Off     Off     Off
Cable Number                 P 3     P 1     P 3     P 1     P 4    P 1X
Line speed (bps)            9600    9600    9600    9600    9600    2400
Parity                      None    None    None    None    None    None
Number of data bits            8       8       8       8       8       8
Number of stop bits            1       1       1       1       1       1
Line timeout                  10      10      10      10      10      10
Terminal / FM source       HCopy   HCopy   WY-50   HCopy   HCopy   HCopy
XON/XOFF type                Off     Off     Off     Off     Off     Off



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Station data parameters

Latitude     (deg)     -0.52 deg
Longitude    (deg)    166.92 deg
Altitude                   7 m
WMO Region Code            5
WMO Block Code            91
WMO Station number       532
Station name        Nauru-ARCS2


Station report type    FIXED
Coordinate input    Disabled
Simulation option         On
Research mode option     Off
Store data option         On
Ground check type   Disabled
```

```
Sounding start type     Auto
Maximum duration         120 min
Maximum height            40 km
Minimum pressure           3 hPa
Ground obs type      PostAsc
Unit for Ground T       degC
Unit for Ground Dir      deg
Unit for Ground Spe      m/s
TEMP Section 7            On
Cloud group input        Off
Special group1 input     Off
Special group2 input     Off
Sounding number flag      On
Message time input      None


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Output control parameters

Output layer rec  1:

Type of use           Ascent
Output device            PRT   P 3
Output data type           0
Layer start       1:       0 s
Record interval   1:       2 s
Layer start       2:   14400 s
Record interval   2:       0 s
Output header flag       Off

Output record in use
   Time AscRate  Hgt/MSL Pressure   Temp  RH   Dewp  Dir Speed     WndStat
 min  s     m/s        m      hPa   degC   %   degC  deg   m/s
 xxx xx xxxxx.x xxxxxxxx xxxxxx.x xxxx.x xxx xxxx.x xxxx xxx.x xxxxxxxxxxx




Output record     1:
   Time AscRate  Hgt/MSL Pressure   Temp  RH   Dewp  Dir Speed     WndStat
 min  s     m/s        m      hPa   degC   %   degC  deg   m/s
 xxx xx xxxxx.x xxxxxxxx xxxxxx.x xxxx.x xxx xxxx.x xxxx xxx.x xxxxxxxxxxx
```

```
Message processing parameters

Message program      TEMP A
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII



Message program      TEMP B
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII



Message program      TEMP C
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII



Message program      TEMP D
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII
```

```
Message program      PILOT A
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII
```

```
Message program      PILOT B
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII
```

```
Message program      PILOT C
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII
```

```
Message program      PILOT D
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII
```

```
Message program      STATUS
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line          PRT   P 3
Header                     1
Footer                  None
Conversion /PRT        ASCII
```

```
Message program     TEMP_E
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII
```

```
Message program     TEMP_F
Processing status         On

Message triggering   AftTerm
Message distribution    Auto
Msg output line         PRT2   P 1
Header                     1
Footer                  None
Conversion /PRT2       ASCII
```

```
Trigger record    1:

Trigger parameter   Pressure
Trigger value            100 hPa

Trigger record    2:     Off

Trigger record    3:     Off

Trigger record    4:     Off

Trigger record    5:     Off

Trigger record    6:     Off

Trigger record    7:     Off

Trigger record    8:     Off

Trigger record    9:     Off

Trigger record   10:     Off
```

```
General message parameters

TEMP wind speed unit     m/s
Hdr Time round up         30 min
Hdr Time round down       30 min
Msg Time round up         30 min
Msg Time round down       30 min
Downwards extr level    1000 hPa
First PILOT STD Lev      850 hPa
PTU only TEMP             No
Shear group in maxw      Yes
New sect-> new line      Yes
Double space              No
More than two trops       No
Incl.incomplete trop      No
Nbr of groups/line         9
Min T to report DPD      -60 degC
```

```
Message standard levels

STD Pressure/Hgt  1:   1000    --
STD Pressure/Hgt  2:    925    --
STD Pressure/Hgt  3:    850    1500
STD Pressure/Hgt  4:    700    3000
STD Pressure/Hgt  5:    500    5400
STD Pressure/Hgt  6:    400    7200
STD Pressure/Hgt  7:    300    9000
STD Pressure/Hgt  8:    250   10500
STD Pressure/Hgt  9:    200   12000
```

```
STD Pressure/Hgt 10:    150   13500
STD Pressure/Hgt 11:    100   15900
STD Pressure/Hgt 12:     70   18300
STD Pressure/Hgt 13:     50   20700
STD Pressure/Hgt 14:     30   23700
STD Pressure/Hgt 15:     20   26400
STD Pressure/Hgt 16:     10   30900


Message fixed regional levels

Mess vert level par Pressure     hPa
Message level     1:     900 hPa
Message level     2:     800 hPa
Message level     3:     600 hPa




Header text records:

Header record nbr 1:

<CR><LF>
<CR><LF>
~SWY2~SWM2~SWD2<SP>~SWH2:~SWm2<CR><LF>
<CR><LF>

Header record nbr 2:

<CR><LF>
<LF>
<LF>
<LF>
<LF>
<LF>
<LF>
<LF>
NNNN<CR><LF>



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DCP Parameters     :

Channel           1:     140
DCP Ident         1:11909362
Preamble type     1:       2
DCP buffer size   1:     649

Channel           2:     140
DCP Ident         2:1190F684
Preamble type     2:       2
```

```
DCP buffer size   2:     649

Transmit time     1:      011705   On   MET
Transmit time     2:      012305   On   BATHY
Transmit time     3:      041705   On   MET
Transmit time     4:      042305   On   BATHY
Transmit time     5:      071705   On   MET
Transmit time     6:      072305   On   BATHY
Transmit time     7:      101705   On   MET
Transmit time     8:      102305   On   BATHY
Transmit time     9:      131705   On   MET
Transmit time    10:      132305   On   BATHY
Transmit time    11:      161705   On   MET
Transmit time    12:      162305   On   BATHY
Transmit time    13:      191705   On   MET
Transmit time    14:      192305   On   BATHY
Transmit time    15:      221705   On   MET
Transmit time    16:      222305   On   BATHY
Automatic DCP feed        On


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General PTU params :

Sonde type                 0
Median window length      11
Computing density          2 s
GC limit/P               6.0 hPa
GC limit/T               2.0 degC
GC limit/RH              7.0 %


Autostart parameter:

Thresh of P change       5.0 hPa
Limit of P change       12.5 hPa
Nbr of peaks of P          0
Number of P samples       24
Max dt of starttimes       5 s
Number of starttimes       5


Autostop parameters:

P trigger for test    1080.0 hPa
Thresh of P change       5.0 hPa
Limit of P change       12.5 hPa
Number of P peaks          0
Number of P samples       24
Max time with no P       720 s
```

PTU editing params :

Max interp time /P	10	min
Max interp time /T	8	min
Max interp time /RH	6	min
Smoothing tol /T	0.5	degC
rawtgrad	1.2	K/100m
rawtcl	-2.0	degC
rawttmx	30.0	degC
fricdmin	-1.6	K/100m
fricdmax	1.4	K/100m
freedmin	-1.4	K/100m
freedmax	1.2	K/100m
Smoothing tol /RH	5	%
Nbr of smooth /P	3	
Nbr of smooth /T	3	
Nbr of smooth /RH	3	

T/U Siglev params :

Trop/ sigp effect	On	
Press/sigp effect	On	
Force 100hPa SigLev	On	
Force 1st EDT SigLev	Off	
Force T sigp -> RH	Off	
Lowest level/tropop	500.0	hPa
Threshold for isot	0.0	degC
Thickness for isot	20.0	hPa
RH change in isot	20	%
1st tolerance sigp/T	1.0	degC
P to change 1st->2nd	300.0	hPa
2nd tolerance sigp/T	2.0	degC
Tolerance sigp/RH	15	%
plimisoinv	300.0	hPa
RH tol / join to T	6	%

Wind Process params:

Max interp time	4	min
Edit buffer length	6	
Editing level	100	%
Smooth buffer length	11	
Smoothing level	30	

Wind Siglev params :

1st tol for sigp/dd	10	deg
1st tol for sigp/ff	5.0	m/s
P to change 1st->2nd	3.0	hPa
2nd tol for sigp/dd	10	deg
2nd tol for sigp/ff	5.0	m/s

```
Speed limit for MAXW    30.0 m/s
Lowest level/MAXW      500.0 hPa
spddffthres              5.0 m/s
Force 100hPa siglev       On
Force 1st EDT SigLev     Off
Calm strata boundary     Off
NIL strata boundary       On
Level in NIL strata       On
Wait incomplete maxw      On
Use CAN_MAXFF            Off
Dir tol / join to FF       6 deg



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GPS parameters:

Station type           FIXED
Range to launch site    0.00 km
Dir to launch site      0.00 deg
Alt to launch site         0 m
Station elev mask          3 deg

Calculation mode        Diff
Sonde elevation mask       3 deg
Ionos./tropos. model      No
Sounding type              1
Default vert. speed      5.0 m/s
Max sonde speed          120 m/s
Max sonde accel.          20 m/(s*s)
Detection threshold       43
IF lower bound          6500 Hz
IF upper bound         17500 Hz
Tight search             200 Hz
Coarse search            600 Hz
Filter type                5
Filter bank index          1
Maximum time delay       240 s
Minimum data density    0.40
Output rate              0.5 s
Timeout                  600 s

FSK frequency type   Vaisala

Navigation aiding       None
```

UHF Receiver Params:

IF Bandwidth	Wide
Track	Off
Afc	On
Scan	Off
Elevation	45
Azimuth	NE
Automatic antenna	On
Default frequency	403.00 MHz
1st spare frequency	400.01 MHz
2nd spare frequency	405.99 MHz

Configuration 6 JUL 00 22:56 UTC
Installed software:

Programs of processors

MPUS	8.28	7226	
PPCS	1.11	6082	
UPPS20	2.13	7062	
MWGS20	2.02	8272	SE1E99

Loadable programs

CONFIG	08.21	8030	MW15.8222
SYSPUP	08.29	7315	SYSP829A
SYSGEN	08.28	7310	SYSG828B
HIMEM	08.21	5062	HIMEM_MOD
DISPSERV	08.27	7295	DISP827
SWSSERV	08.21	7300	SWSS821
PTUSERV	08.29	7295	PTUS829B
PCSERV	08.24	7162	PCSE824
OMESERV	08.27	7330	OMES827
VLFSERV	08.27	7330	VLFS827
LORSERV	08.28	7330	LORS828
GPSSERV	08.29	7330	GPSS829
MFSERV	08.21	4341	MFSE821
SOND	08.29	7349	SOND829D
OMEWCMP	08.25	7309	OMEW825
LORWCMP	08.23	5285	LORW823
GPSWCMP	08.28	7286	GPSW828A
NAVDER	08.27	7314	NAVD827
SIMUL	08.21	5066	SIMUL_MOD
SIGPAR	08.21	5066	SIGPAR_MOD
COMPAR	08.21	5066	COMPAR_MOD
FORMOUT	08.21	5066	FORMOUT_MOD
ADDOUT	08.21	5066	ADDOUT_MOD
RESEARCH	08.21	5066	RESEARCH_MOD
TEMP	08.24	7244	TEPI824_RT
PILOT	08.24	7244	TEPI824_RT
LIST	08.22	5289	LIST822
STATUS	08.22	5268	STAT822
MFLOAD	08.22	7086	MFLO822
MFSAVE	08.21	5066	MFSA821

```
METPAR  08.21   5178  METP821
METSEND 08.21   5221  METS821
BATSEND 08.21   5221  BATS821
TEMP_E  08.21   5066  TEMP_E_MOD
TEMP_F  08.21   5066  TEMP_F_MOD
AUTODCP 08.21   6059  AUTODCP_MOD
PRGCHAIN08.21   7069  PRGC821
```