

SYSPAR Rev. 07.09 04-11-06 01:47:35
Initialized: 97-11-11 12:10:00
Latest modification: 02-07-19 06:27:04

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	9600	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	10	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	On	Off	Off	Off
Cable Number	P 3	P 1	P 1X	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	EpsonFX	HCopy	HCopy	HCopy	HCopy
XON/XOFF type	Off	Off	Off	Off	Off	Off

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Station data parameters

Latitude (deg) -2.06 deg
Longitude (deg) 147.43 deg
Altitude 4 m
WMO Region Code 5
WMO Block Code 92
WMO Station number 44
Station name MANUS

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
min s m/s m hPa degC % degC deg m/s
xxx xx xxxxx.x xxxxxxx xxxxxx.x xxxx.x xxx xxxx.x xxxx xxx.x

Output record 1:

Time AscRate Hgt/MSL Pressure Temp RH Dewp Dir Speed
min s m/s m hPa degC % degC deg m/s
xxx xx xxxxx.x xxxxxxx xxxxxx.x xxxx.x xxx xxxx.x xxxx xxx.x

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
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 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
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 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 D
Processing status On

Message triggering AftTerm
Message distribution Auto
Msg output line PRT2 P 1
Header 1
Footer None
Conversion /PRT2 ASCII
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 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
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 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
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 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
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 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
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 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
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 ASCII

Message program TEMP_E
Processing status Off

Message triggering AftTerm
Message distribution Auto
Msg output line PRT2 P 1
Header 1
Footer None
Conversion /PRT2 ASCII
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 ASCII

Message program TEMP_F
Processing status Off

Message triggering AftTerm
Message distribution Auto
Msg output line PRT2 P 1
Header 1
Footer None
Conversion /PRT2 ASCII
Msg output line CRT1 P 1X
Header 1
Footer None
Conversion /CRT1 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 trop No
Incl.incomplete trop No
Nbr of groups/line 9
Min T to report DPD -40 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>
<LF>
NNNN<CR><LF>

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DCP Parameters :

Channel 1: 140
DCP Ident 1:11908014
Preamble type 1: 2
DCP buffer size 1: 649

Channel 2: 140
DCP Ident 2:1190E5F2
Preamble type 2: 2
DCP buffer size 2: 649

Transmit time 1: 011505 On MET
Transmit time 2: 012105 On BATHY
Transmit time 3: 041505 On MET
Transmit time 4: 042105 On BATHY
Transmit time 5: 071505 On MET
Transmit time 6: 072105 On BATHY
Transmit time 7: 101505 On MET
Transmit time 8: 102105 On BATHY
Transmit time 9: 131505 On MET
Transmit time 10: 132105 On BATHY

Transmit time 11: 161505 On MET
Transmit time 12: 162105 On BATHY
Transmit time 13: 191505 On MET
Transmit time 14: 192105 On BATHY
Transmit time 15: 221505 On MET
Transmit time 16: 222105 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 NOV 04 1:50 UTC
Installed software:

Programs of processors

MPUS 8.28 7226
PPCS 1.11 6082
UPPS20 3.03 7192
MWGS20 2.02 8272 SESG00

Loadable programs

CONFIG 08.21 8030 MW15.8222
SYSPUP 08.29 7315 SYSP829A
SYSGEN 08.28 7310 SYSG828B
HIMEM 08.21 5062 HIMEM_MOD
DISPSERV08.27 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
RESEARCH08.21 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
METSSEND 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

