Format Description for USAP RVDAS Meteorology

Data

Data is received from the RVDAS system via RS-232 serial connections. A time tag is added at the beginning of each line of data in the form,

```
yy+dd:hh:mm:ss.sss [data stream from instrument]
```

where

All times are reported in UTC.

The delimiters that separate fields in the raw data files are often spaces and commas but can be other characters such as : = @. Occasionally no delimiter is present. Care should be taken when reprocessing the data that the field's separations are clearly understood.

In the sections below a sample data string is shown, followed by a table that lists the data contained in the string.. United States Antarctic Program

Underway Data /RVDAS/LMGUW

Meteorology (lmet)

MET

```
08+033:22:55:38.443  6.3 194  64  6.7 194  67  989.2  2.0  87  -2.9573  -12.1841  520.0833
```

Field Data Format Unit

yy = two-digit year ddd = day of year
hh = 2 digit hour of the day mm = 2 digit minute ss.sss = seconds

Field	Data	Units
1	RVDAS Time Tag	
2	Port Wind Speed	m/s
3	Port Wind Direction	deg
4	Port Wind Direction (standard deviation)	deg
5	Starboard Wind Speed	m/s
6	Starboard Wind Direction	deg
7	Starboard Wind Direction (standard deviation)	deg

Field	Data	Units
8	Barometer	millibars
9	Temperature	°C
10	Relative humidity	%
11	No longer Connected - PSP (long wave radiometer)	Volts
12	No Longer Connected - PIR (short wave radiometer)	Volts
13	PAR (photo-synthetically available radiation, 400 - 700 nm)	Volts