# Format Description for  USAP RVDAS Winds

## 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

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

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/uw

### *Winds (PUS, PUP)*

```
15+055:21:47:42.452 PUS,A,037,014.36,M,+325.38,-010.29,60,0F
15+055:21:47:42.452 PUP,A,037,014.36,M,+325.38,-010.29,60,0F
```

| Field | Data | Format | Unit |
|---|---|---|---|
| 1 | RVDAS time tag | yy+ddd:hh:mm:ss.sss | UTC |
| 2 | PUS or PUP Flag | | |
| 3 | A | x | A |
| 4 | Starboard or Port Wind Relative Direction | xxx | degrees |
| 5 | Starboard or port Wind Relative Speed | xxx.xx | m/s |
| 6 | M = Meters (for previous) | x | M |
| 7 | Sound Speed | xxx.xx | m/s |
| 8 | Sonic Temperature | xxx.xx | C |
| 9 | Unit Status* | xx | numeric |
| 10 | Checksum | xx | alphanumeric |

### Status

00 = Good, 60 = Good. Any other value indicates fault