

## Format Description for USAP RVDAS Thermosalinograph

### 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

#### Micro TSG (tsg1, tsg2)

15+056:15:06:06.644 -1.1809, 2.73404, 34.0574,

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Field	Data	Format	Unit
1	RVDAS time tag	yy+ddd:hh:mm:ss.sss	UTC
2	Temperature	xx.XXXX	C
3	Conductivity	xx.XXXX	s/m
4	Salinity	xx.XXXX	PSU
5	Sound Velocity	xxxx.xxx	m/s