

## NetSensor Cast Temperature Data Format

Parameter	Bytes	Notes
<b>Note</b>		All data on a line are comma separated; all lines are terminated with <CR><LF>
<b>Line 1, cast header</b>		
Cast number, NetSensor ID	2, ASCII	Cast number automatically sequenced; NetSensor ID fixed.
<b>Line 2, cast data</b>		
Cast segments	1	Usually three (net down, fishing, net up)
Cast segment 1 temperature, pressure count	2	
Cast segment 1 sample rate, seconds	1	Net down, usually 2s.
Cast segment 2 temperature, pressure count	2	
Cast segment 2 sample rate, seconds	1	Fishing, usually 60s.
Cast segment 3 temperature, pressure count	2	
Cast segment 3 sample rate, seconds	1	Net up, usually 2s.
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.	.	
Cast segment n, count	2	
Cast segment n, sample rate, seconds	1	
Age of first value, seconds	3	Time of first sample is data capture time less age.
<b>Lines 3 to total count, temperature/pressure data</b>		
Temperature, pressure	ASCII	Temperature plus 5C, 0 - 50.00 (subtract 5 for in situ temperature).; Absolute pressure in decibars, 0 - 340 db (subtract 10 for atmospheric pressure; divide by 10 for meters).
<b>Cast data terminator line</b>	0,0	
<b>Checksum Line</b>		2 Sum of temperature times 100 and pressures, modulo 65536.

12345,clearwater  
3,43,2,0,60,0,2,93  
20.33,141  
19.82,155  
19.53,168  
19.36,180  
19.23,181  
19.15,193  
18.94,205  
18.63,196  
18.45,210  
18.06,216  
17.69,205  
17.64,214  
17.52,227  
17.30,227  
17.14,247  
17.03,252  
16.97,253  
16.91,265  
16.85,278  
16.78,292  
16.70,295  
16.64,302  
16.60,308  
16.56,305  
16.54,298  
16.54,303  
16.54,307  
16.53,299  
16.53,304  
16.53,305  
16.52,303  
16.53,291  
16.56,275  
16.63,263  
16.70,245  
16.79,229  
16.89,209  
17.34,198  
18.01,182  
18.49,168  
18.76,152  
18.92,140  
19.04,126  
0,0

## NetSensor Data Reduction

Format Line Number	NetSensor Data							Comments				
1	12345	clear wate						12345: dummy cast number; "clearwater": dummy NetSensor ID				
2	3	43	2	0	60	0	2	93	3 cast segments; cast segment 1, 43 samples taken at 2 seconds; 0 samples cast segment 2 taken at 60 seconds; 0 cast samples segment 3 taken at 2 seconds; the age of the first data is 93 seconds. Cast date captured 4/27/00 1:08:00 pm.			
3	20.33	141							15.33	4.1	0	4/27/00 13:06:27
3	19.82	155							14.82	5.5	2	4/27/00 13:06:29
3	19.53	168							14.53	6.8	4	4/27/00 13:06:31
3	19.36	180							14.36	8.0	6	4/27/00 13:06:33
3	19.23	181							14.23	8.1	8	4/27/00 13:06:35
3	19.15	193							14.15	9.3	10	4/27/00 13:06:37
3	18.94	205							13.94	10.5	12	4/27/00 13:06:39
3	18.63	196							13.63	9.6	14	4/27/00 13:06:41
3	18.45	210							13.45	11.0	16	4/27/00 13:06:43
3	18.06	216							13.06	11.6	18	4/27/00 13:06:45
3	17.69	205							12.69	10.5	20	4/27/00 13:06:47
3	17.64	214							12.64	11.4	22	4/27/00 13:06:49
3	17.52	227							12.52	12.7	24	4/27/00 13:06:51
3	17.3	227							12.30	12.7	26	4/27/00 13:06:53
3	17.14	247							12.14	14.7	28	4/27/00 13:06:55
3	17.03	252							12.03	15.2	30	4/27/00 13:06:57
3	16.97	253							11.97	15.3	32	4/27/00 13:06:59
3	16.91	265							11.91	16.5	34	4/27/00 13:07:01
3	16.85	278							11.85	17.8	36	4/27/00 13:07:03
3	16.78	292							11.78	19.2	38	4/27/00 13:07:05
3	16.7	295							11.70	19.5	40	4/27/00 13:07:07
3	16.64	302							11.64	20.2	42	4/27/00 13:07:09
3	16.6	308							11.60	20.8	44	4/27/00 13:07:11
3	16.56	305							11.56	20.5	46	4/27/00 13:07:13
3	16.54	298							11.54	19.8	48	4/27/00 13:07:15
3	16.54	303							11.54	20.3	50	4/27/00 13:07:17
3	16.54	307							11.54	20.7	52	4/27/00 13:07:19
3	16.53	299							11.53	19.9	54	4/27/00 13:07:21
3	16.53	304							11.53	20.4	56	4/27/00 13:07:23
3	16.53	305							11.53	20.5	58	4/27/00 13:07:25
3	16.52	303							11.52	20.3	60	4/27/00 13:07:27
3	16.53	291							11.53	19.1	62	4/27/00 13:07:29
3	16.56	275							11.56	17.5	64	4/27/00 13:07:31
3	16.63	263							11.63	16.3	66	4/27/00 13:07:33
3	16.7	245							11.70	14.5	68	4/27/00 13:07:35
3	16.79	229							11.79	12.9	70	4/27/00 13:07:37
3	16.89	209							11.89	10.9	72	4/27/00 13:07:39
3	17.34	198							12.34	9.8	74	4/27/00 13:07:41

3	18.01	182						13.01	8.2	76	4/27/00 13:07:43
3	18.49	168						13.49	6.8	78	4/27/00 13:07:45
3	18.76	152						13.76	5.2	80	4/27/00 13:07:47
3	18.92	140						13.92	4.0	82	4/27/00 13:07:49
3	19.04	126						14.04	2.6	84	4/27/00 13:07:51
Cast data terminator	0	0						Cast data terminator			
Cast data checksum	20198							Cast data checksum			