

**PRELIMINARY CRUISE REPORT**

U.S. Dept. of State CRUISE No.:	2007-099
SHIP NAME:	R/V Knorr
OPERATING INSTITUTE OR AGENCY:	Woods Hole Oceanographic Institution
PROJECT TITLE:	Collaborative Research: Autonomous Measurements of Carbon Fluxes in the North Atlantic Bloom
CRUISE DATES (INCLUSIVE):	1-22 May 2008

CHIEF SCIENTIST:	
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CLEARANCE COUNTRIES:	Iceland, Norway, Denmark/Greenland, England, Ireland
FOREIGN PARTICIPANTS:	Iceland: Kristinn Gudmundsson UK: Nicole Bale, Alba Gonzalez-Posada, Richard Lampitt, Patrick Martin, Kevin Saw Denmark: Maren Moltke Lyngsgaard, Katherine Richardson

DESCRIPTION OF SCIENTIFIC PROGRAM(include page-sized chartlet showing cruise track):
The overarching goal of the cruise was to study the subpolar North Atlantic Spring Bloom. Measurements were made within the region designated by the chartlets. Chartlet 1 shows the over-all cruise track from Iceland to Iceland, while Chartlet 2 shows a zoomed version of the cruise track within the principal operating area. Additionally, an excel spread sheet with station locations is provided (note: missing station numbers are deliberate and indicate when the ship stopped but no data were collected). During the cruise, the ship sampled in the vicinity of a profiling float and four underwater gliders, previously deployed from an Icelandic research vessel. The primary objectives of the

cruise were: 1) to calibrate the sensors on the float and gliders; 2) to interpret the optical measurements made by the float and glides in terms of carbon; and ) to provide ancillary data to better understand carbon flux. The primary activity during the cruise was CTD profiles to either 250-m or 600-m and collection of water samples for measurement of nutrients, chlorophyll, and additional biological and chemical measurements. Floating sediment traps were deployed and retrieved during the cruise to measure carbon flux from the upper ocean. Optical profiles were taken in the upper 30-m, typically mid-day. SOLO floats for measurement of aggregation of particles were lost during an unfortunate deployment operation.

SCHEDULE OF DATA DELIVERY:	
Data Description	Date of Expected Delivery to Dept. of State
CTD data including optics	Provided as attachment
Water sample data: nutrients	1 January 2009
Water sample data: chlorophyll	Provided as attachment
Water sample data: POC	1 January 2009
Water sample data: HPLC pigments	1 January 2009
Water sample data: absorption coefficients	1 January 2009
Optics profile	1 June 2009
Settling particles from sediment traps	Provided as attachment

List of attachments:  
 Perry\_2007\_099\_charlet\_1.pdf  
 Perry\_2007\_099\_charlet\_2.pdf  
 Perry\_2007\_099\_stations.xls  
 Perry\_2007\_099\_CTD\_A.pdf  
 Perry\_2007\_099\_CTD\_B.pdf  
 Perry\_2007\_099\_chlorophyll.xls  
 Perry\_2007\_099\_sediment\_trap\_data.xls

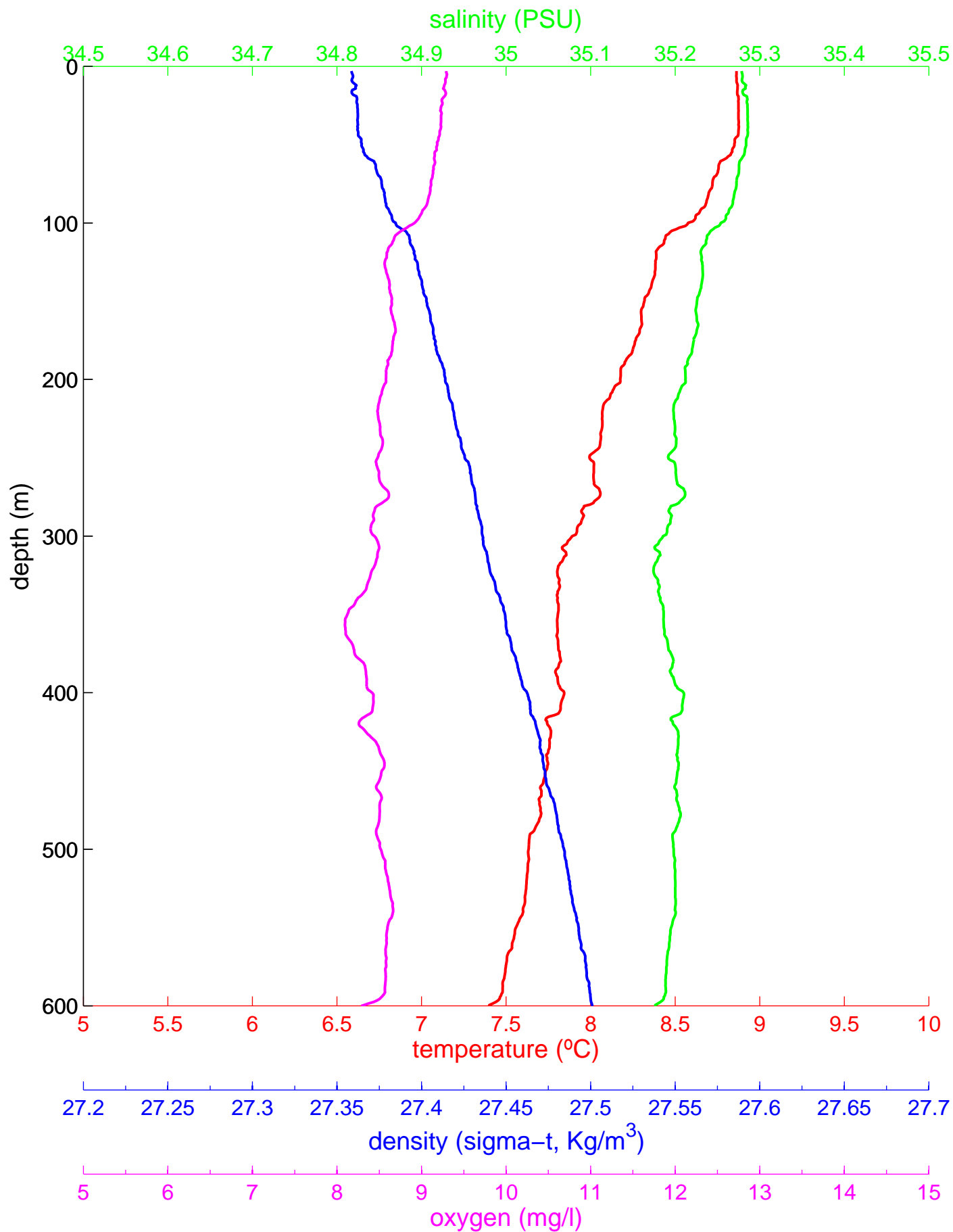
Perry  
2007\_099  
Station List

Station Number	Latitude	Longitude
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2	58,65	-25,66
3	60,85	-26,64
4	60,98	-26,88
5	60,73	-26,89
6	60,98	-26,38
7	60,73	-26,39
8	60,68	-27,19
9	60,79	-27,12
10	60,92	-27
12	60,91	-27,42
18	61,17	-26,52
19	61,09	-26,75
21	61,07	-26,66
21	61,08	-26,63
22	61,3	-26,19
23	61,52	-25,72
24	61,22	-25,72
25	60,92	-25,72
26	60,63	-25,72
27	60,85	-26,18
28	61,07	-26,66
29	61,3	-27,13
30	61,53	-27,59
31	61,23	-27,59
32	60,93	-27,59
33	60,63	-27,59
34	61,34	-26,59
35	61,4	-26,22
36	61,27	-25,98
37	61,52	-25,97
38	61,39	-26,22
39	61,27	-26,47
40	61,52	-26,48
41	61,39	-26,22
42	61,52	-25,97
43	61,51	-25,86
44	61,44	-25,98
50	61,44	-25,96
51	61,33	-25,97
52	61,27	-25,96
53	61,2	-25,94
54	61,28	-25,83
55	61,35	-25,71
56	61,34	-25,84
57	61,33	-25,97
58	61,32	-26,11

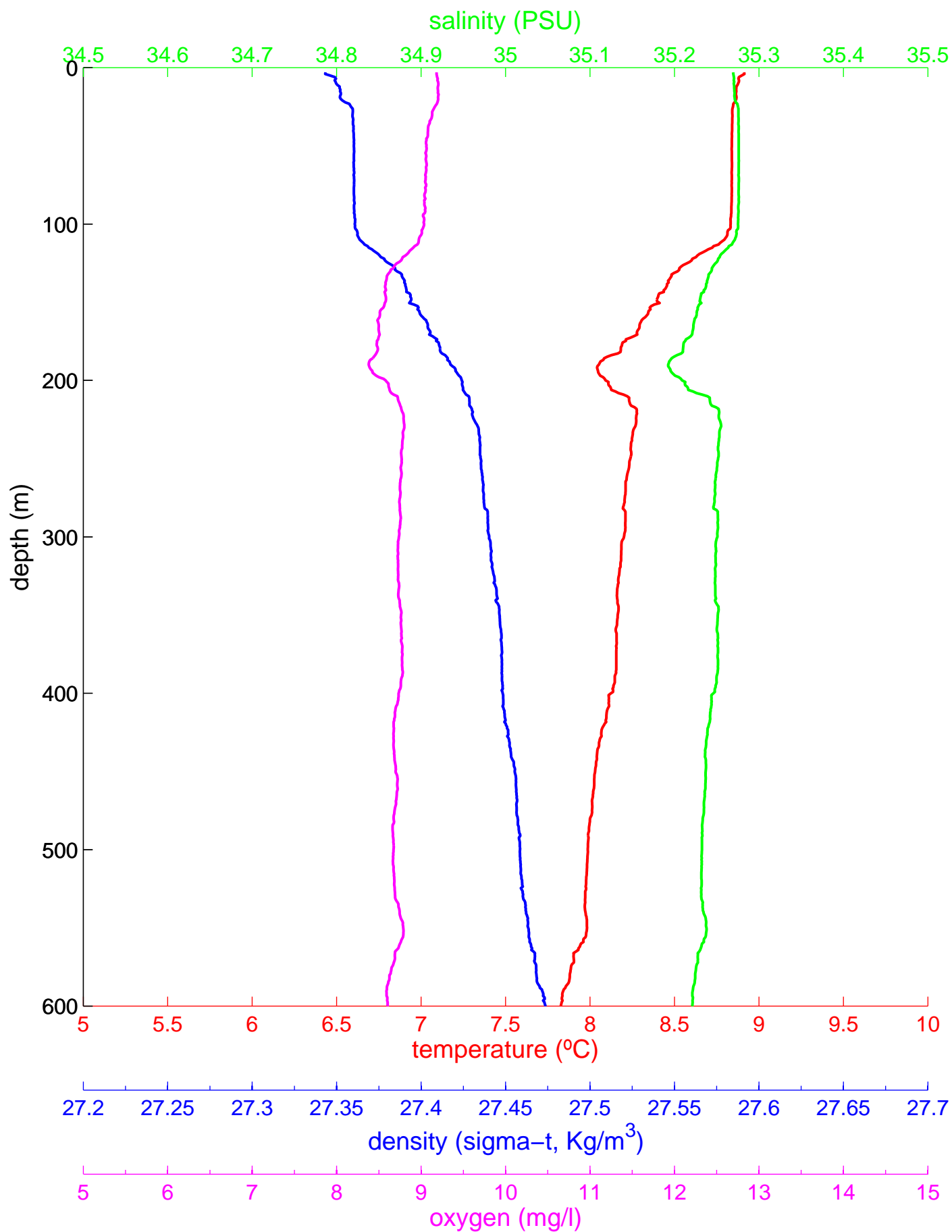
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62	61,39	-25,99
63	61,33	-25,97
64	61,2	-26,12
70	61,21	-26,14
71	61,2	-26,11
74	61,18	-26,51
75	61,17	-26,08
76	61,15	-25,65
77	61,14	-26,08
78	61,14	-26,52
79	61,1	-26,13
80	61,24	-26,29
81	61,24	-26,29
82	61,27	-26,23
83	61,33	-26,09
84	61,33	-26,29
85	61,34	-26,47
86	61,27	-26,34
87	61,24	-26,28
88	61,22	-26,23
89	61,15	-26,09
90	61,15	-26,28
91	61,15	-26,46
92	61,22	-26,34
93	61,24	-26,28
94	61,5	-26,35
100	61,58	-26,08
101	61,46	-25,95
102	61,44	-25,91
103	61,39	-25,84
104	61,34	-25,74
105	61,35	-25,93
106	61,35	-26,11
107	61,39	-26,01
108	61,43	-25,92
109	61,48	-25,82
111	61,53	-25,91
112	61,53	-26,1
113	61,48	-26
114	61,44	-25,91
116	61,08	-25,4
117	61,23	-25,53
118	61,23	-25,53
119	61,19	-25,42
120	61,15	-25,31
121	61,13	-25,5
122	61,11	-25,68
123	61,18	-25,59
124	61,23	-25,53
125	61,28	-25,46

126	61,34	-25,39
127	61,32	-25,58
128	61,3	-25,75
129	61,26	-25,65
130	61,23	-25,53
141	61,49	-25,06
142	61,47	-25,73
143	61,5	-25,83
144	61,53	-25,94
145	61,45	-25,89
146	61,36	-25,84
147	61,42	-25,77
148	61,47	-25,72
150	61,58	-25,59
151	61,5	-25,54
152	61,41	-25,48
153	61,44	-25,59
154	61,47	-25,72

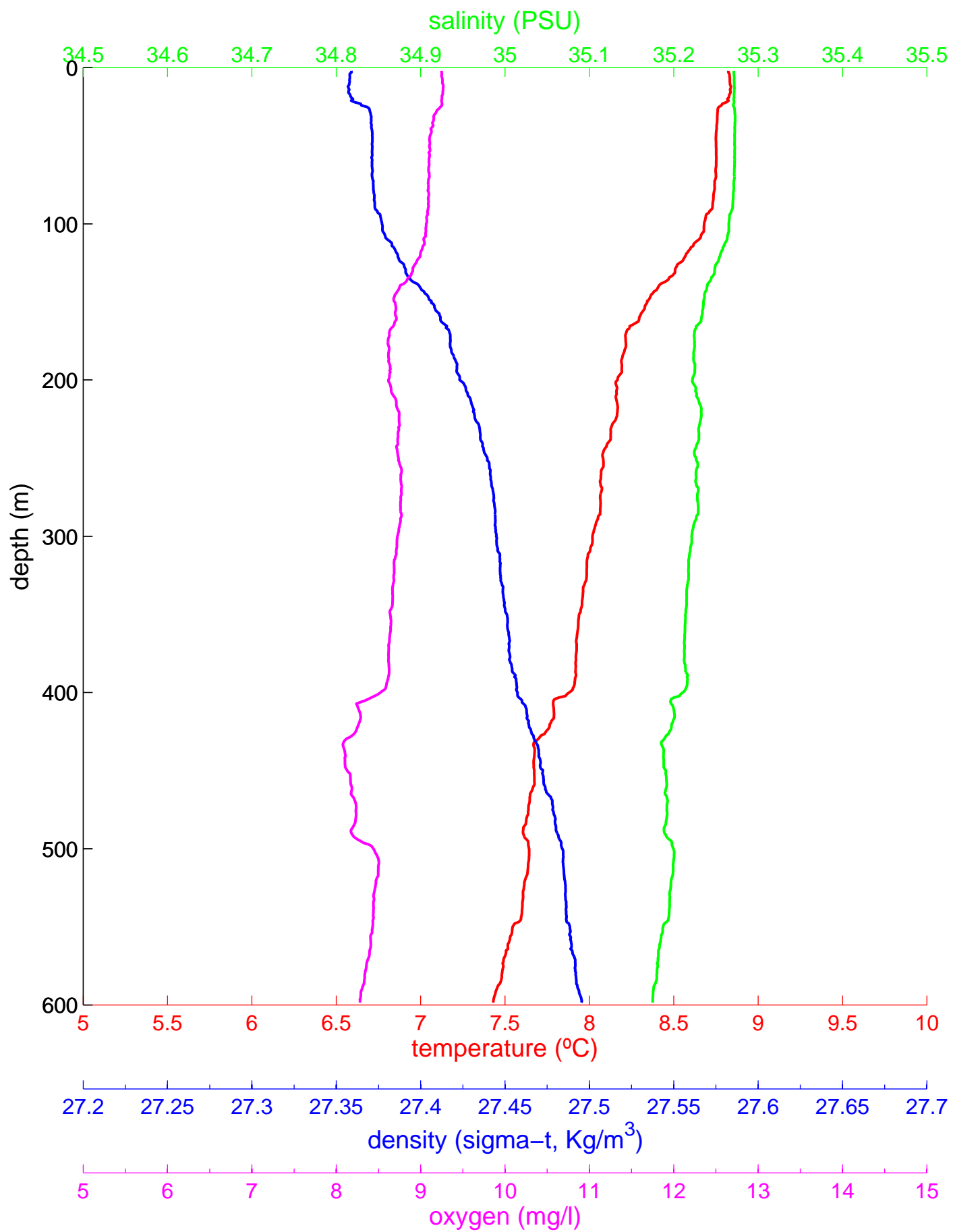
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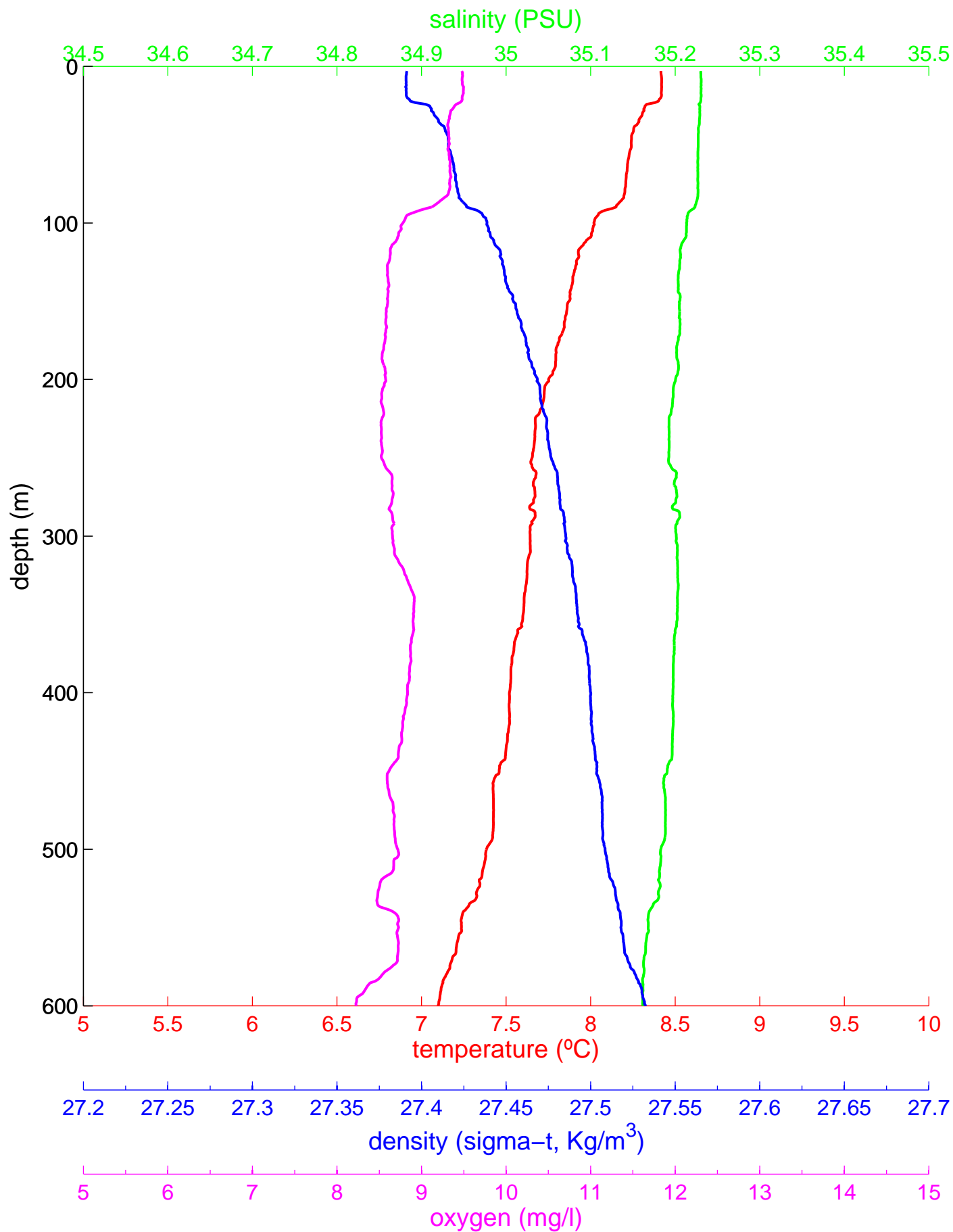


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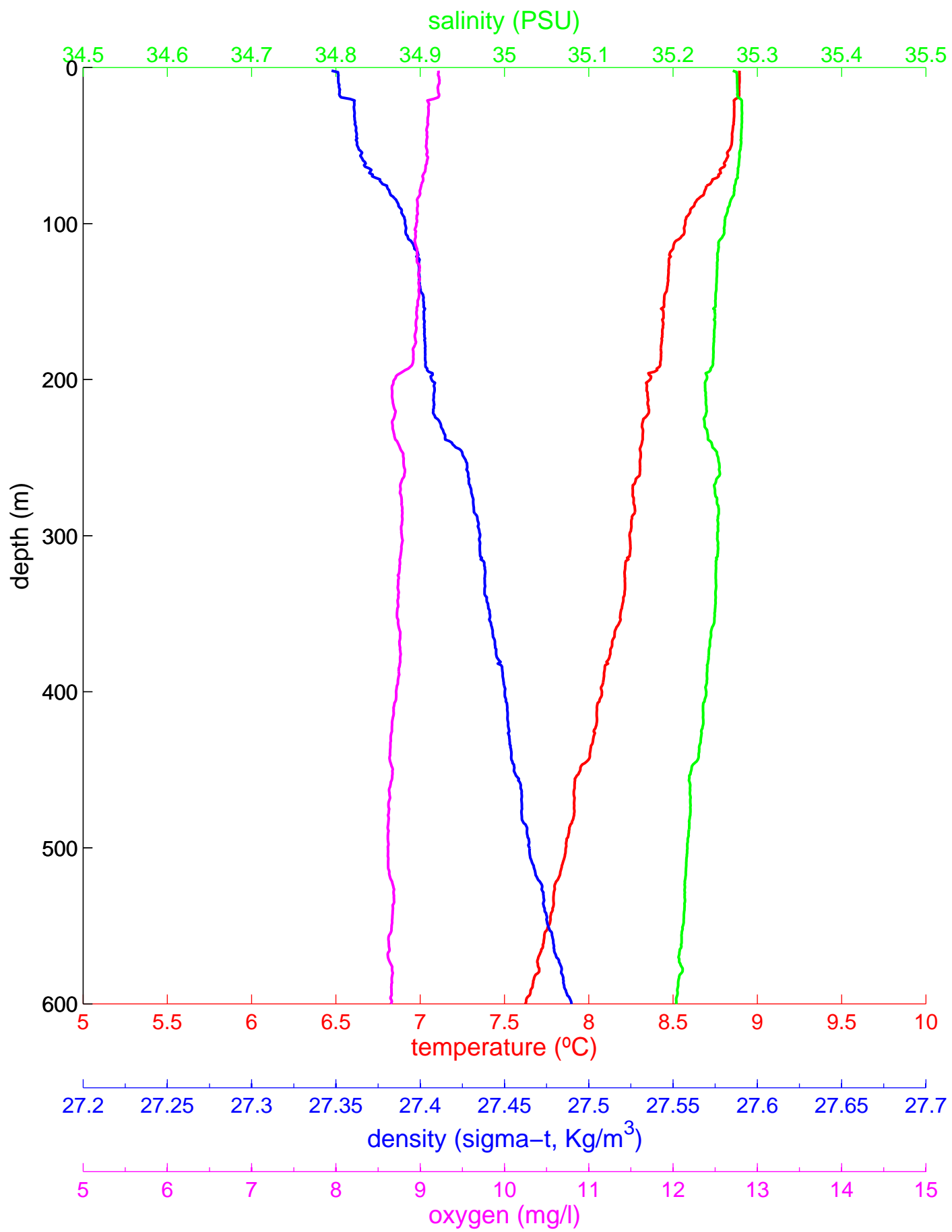




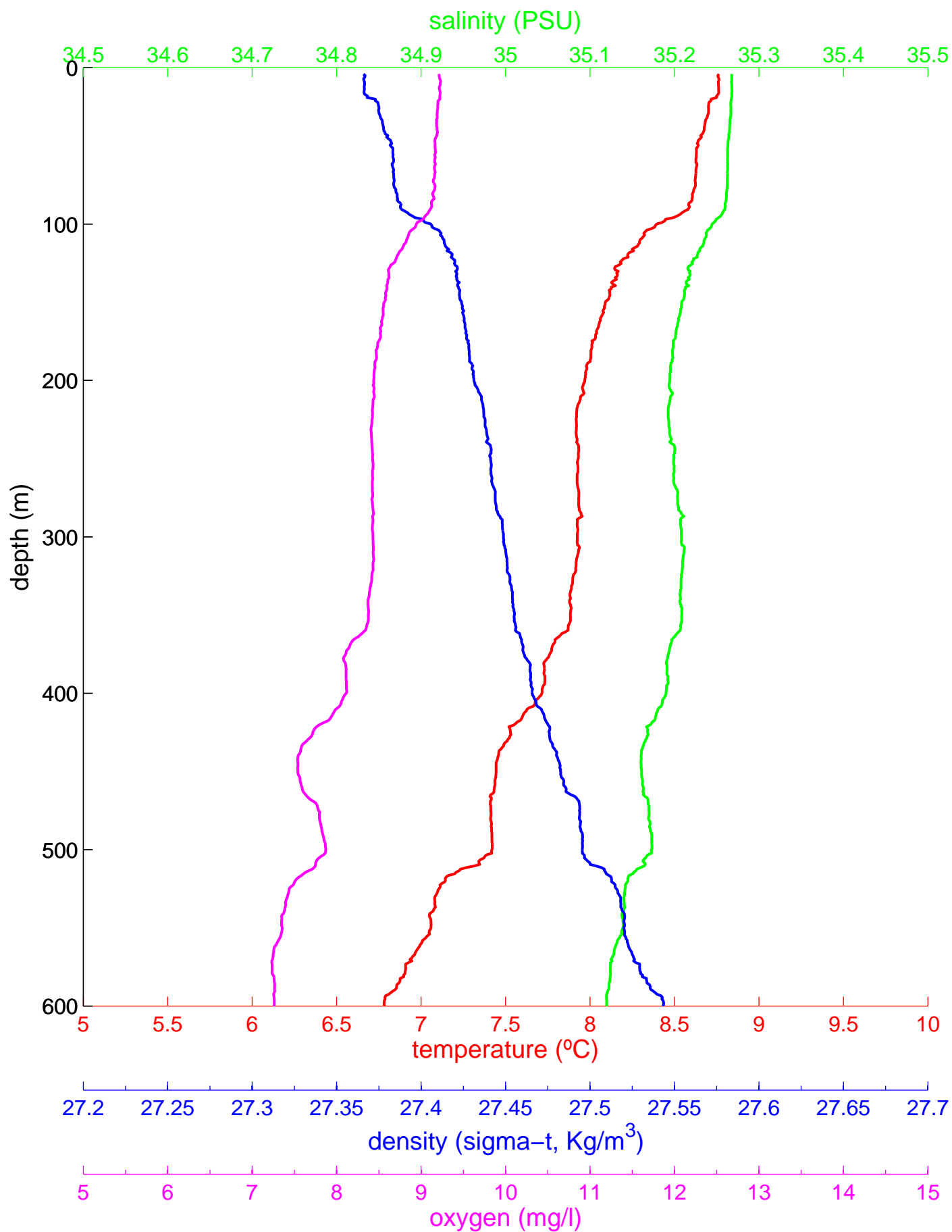
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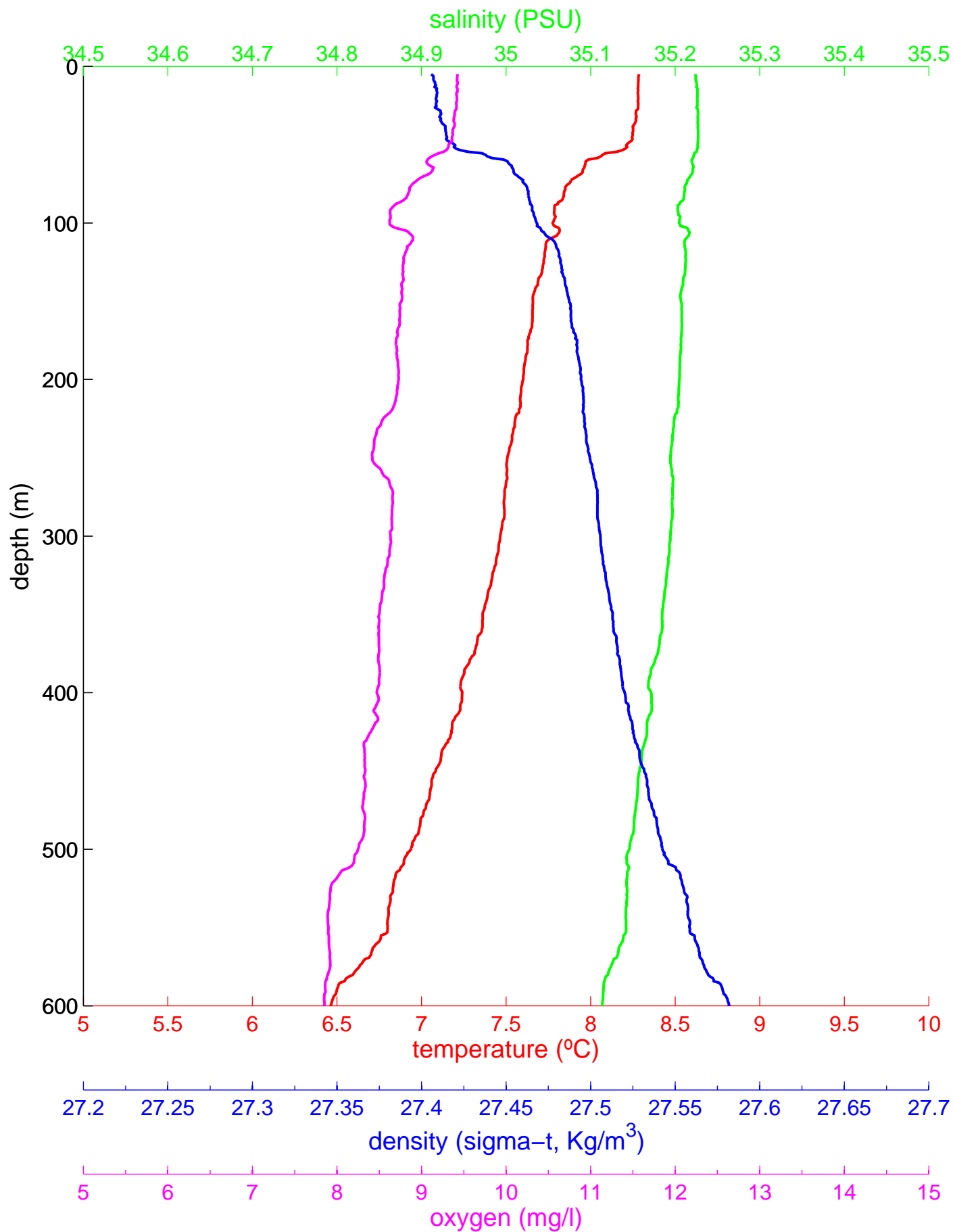
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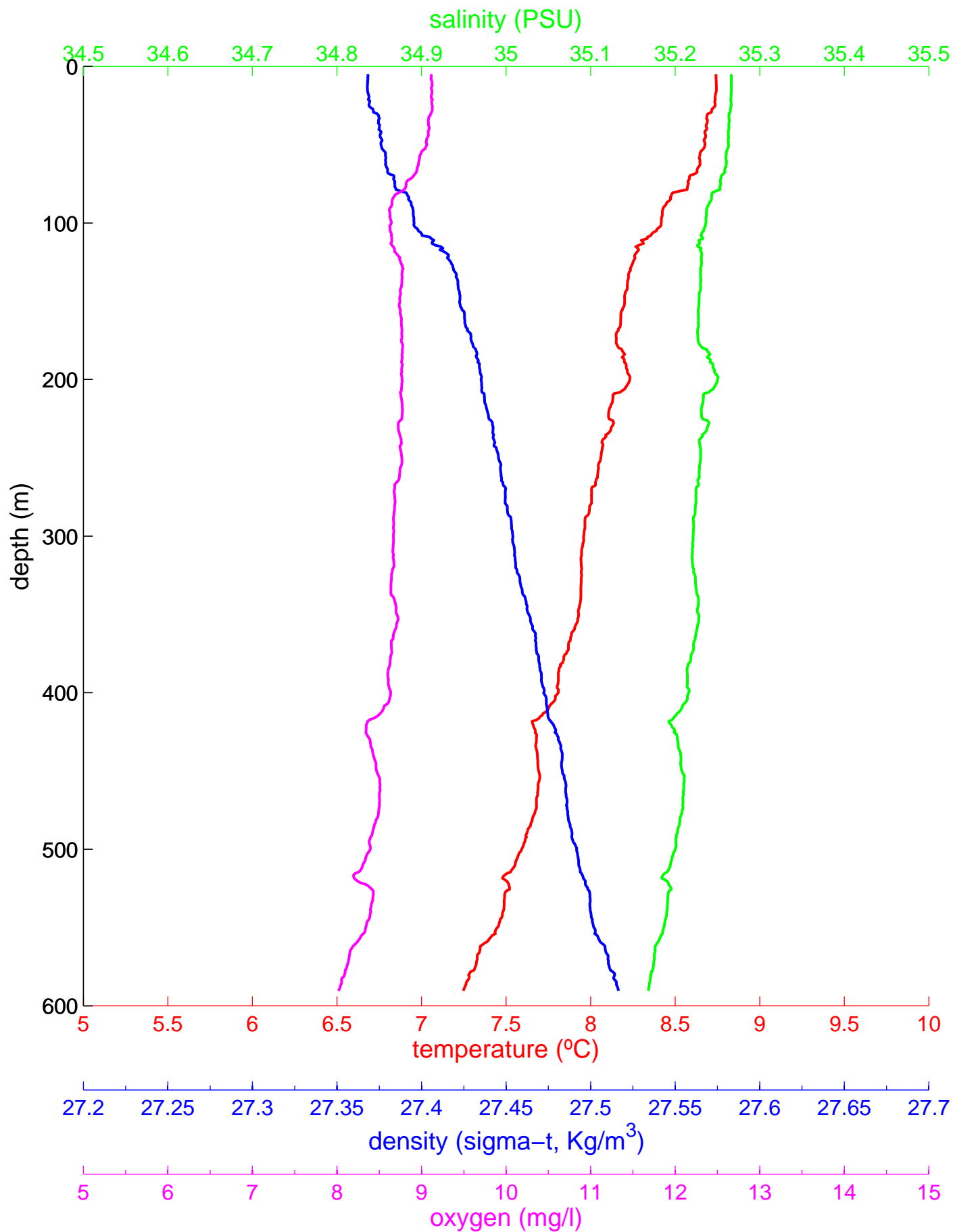
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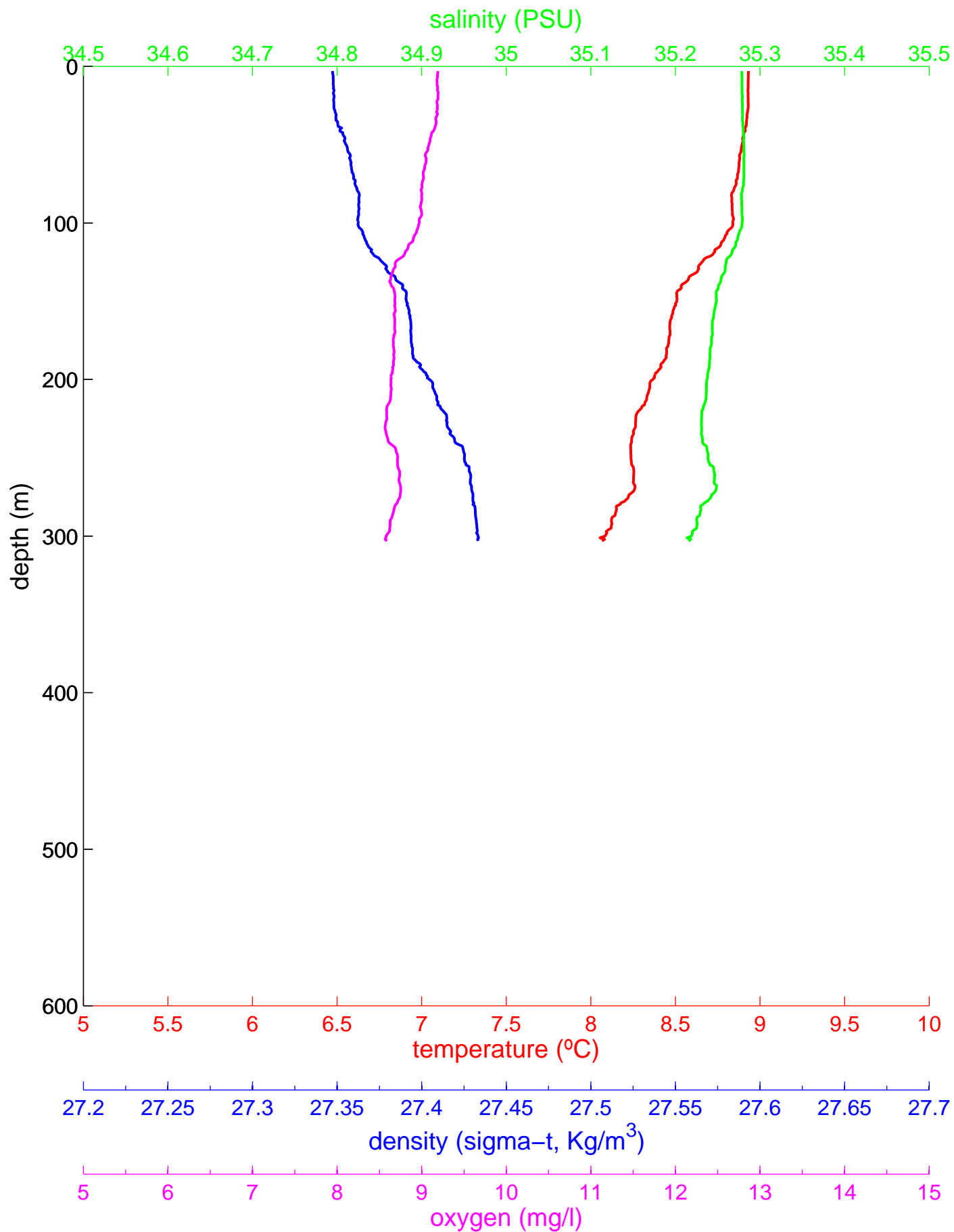
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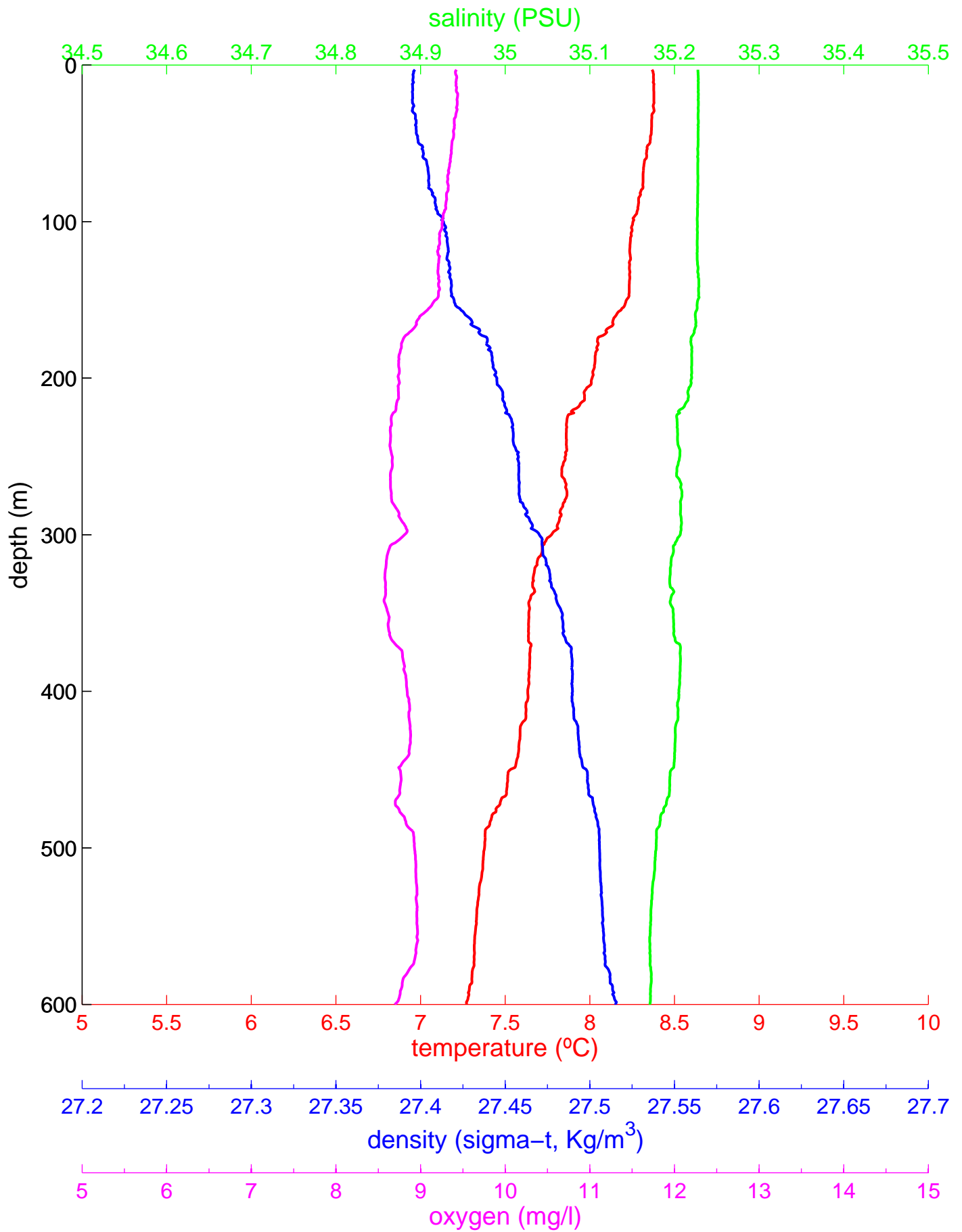
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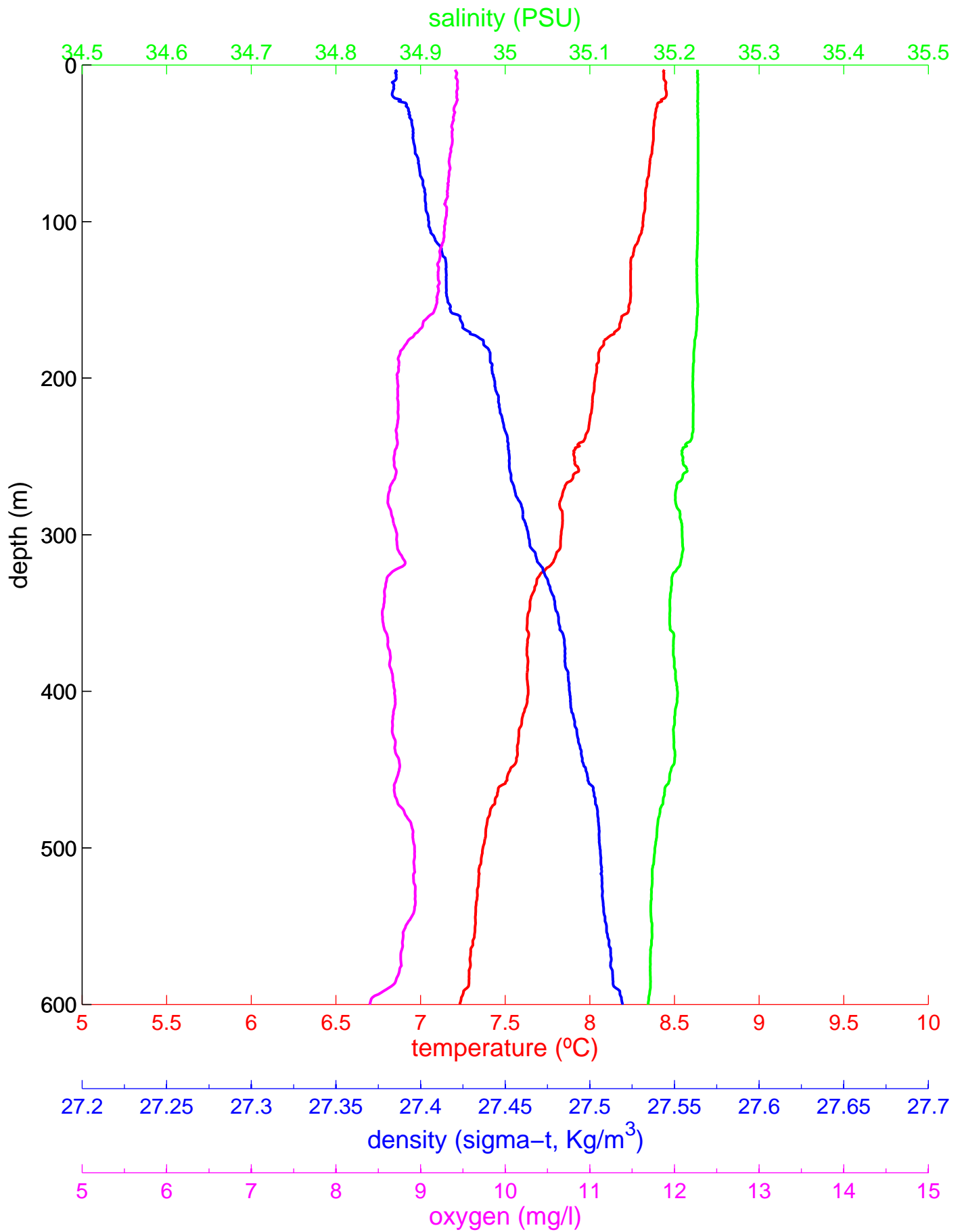
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St: 12-a Cast: 010 06-May-2008 09:32:49

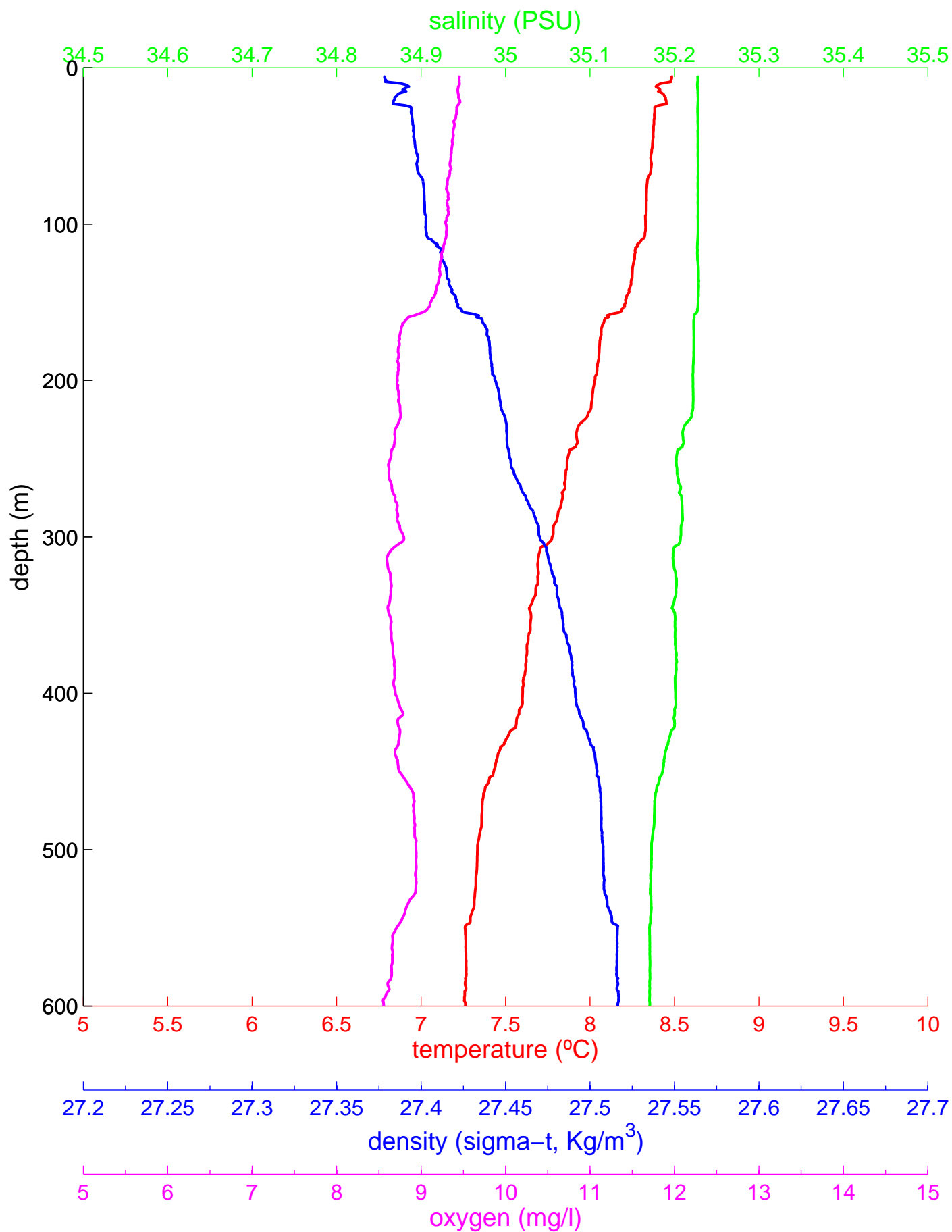


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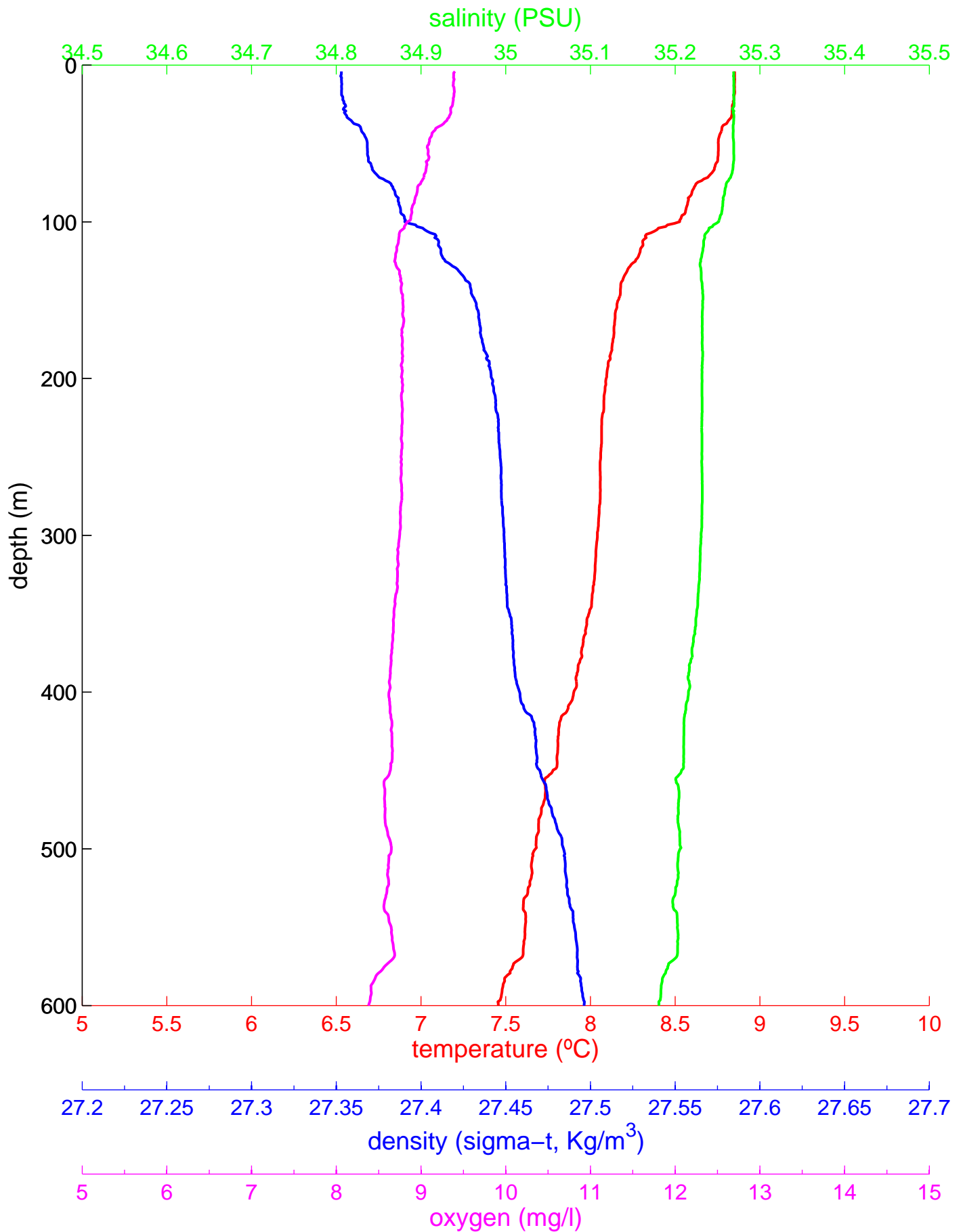




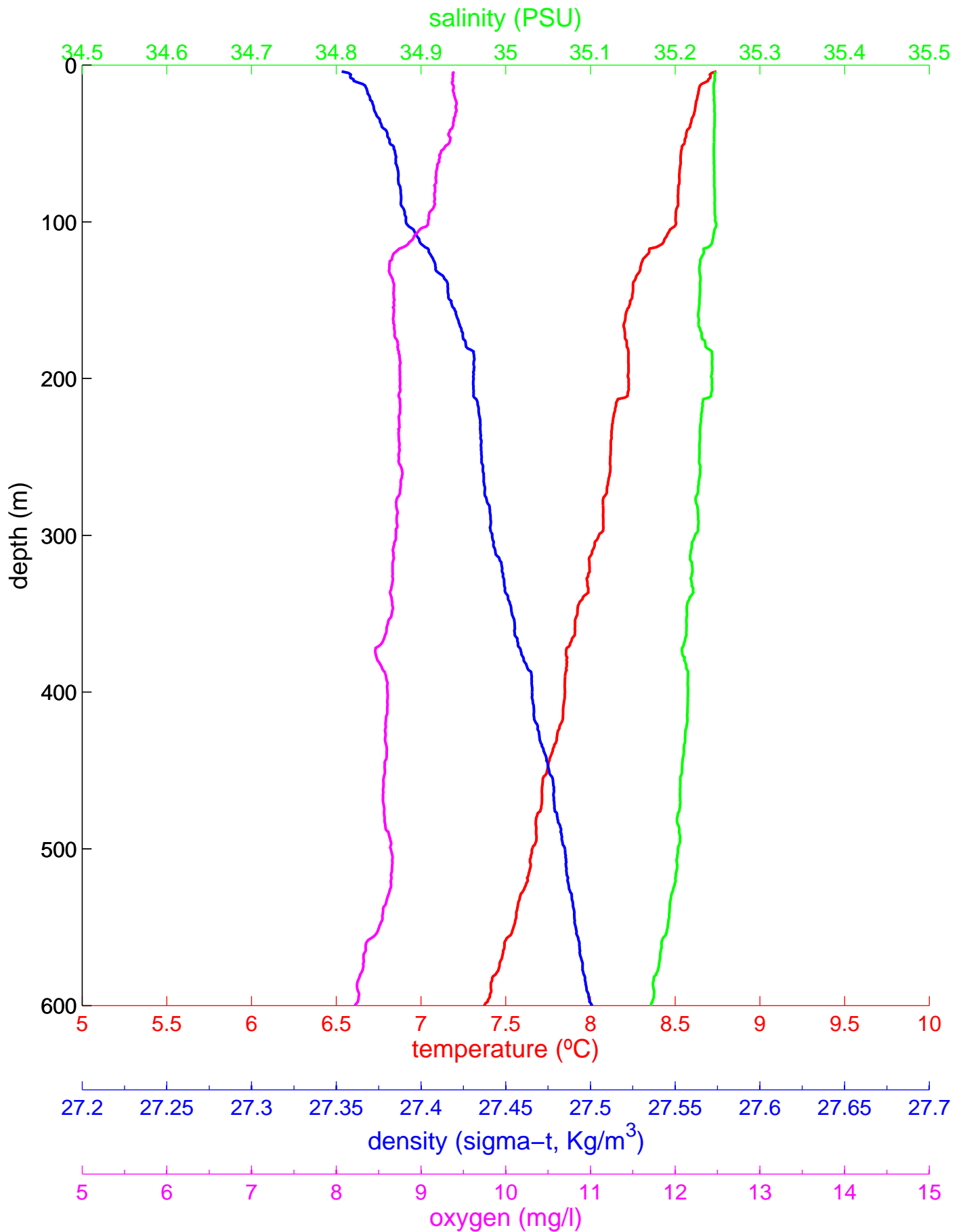
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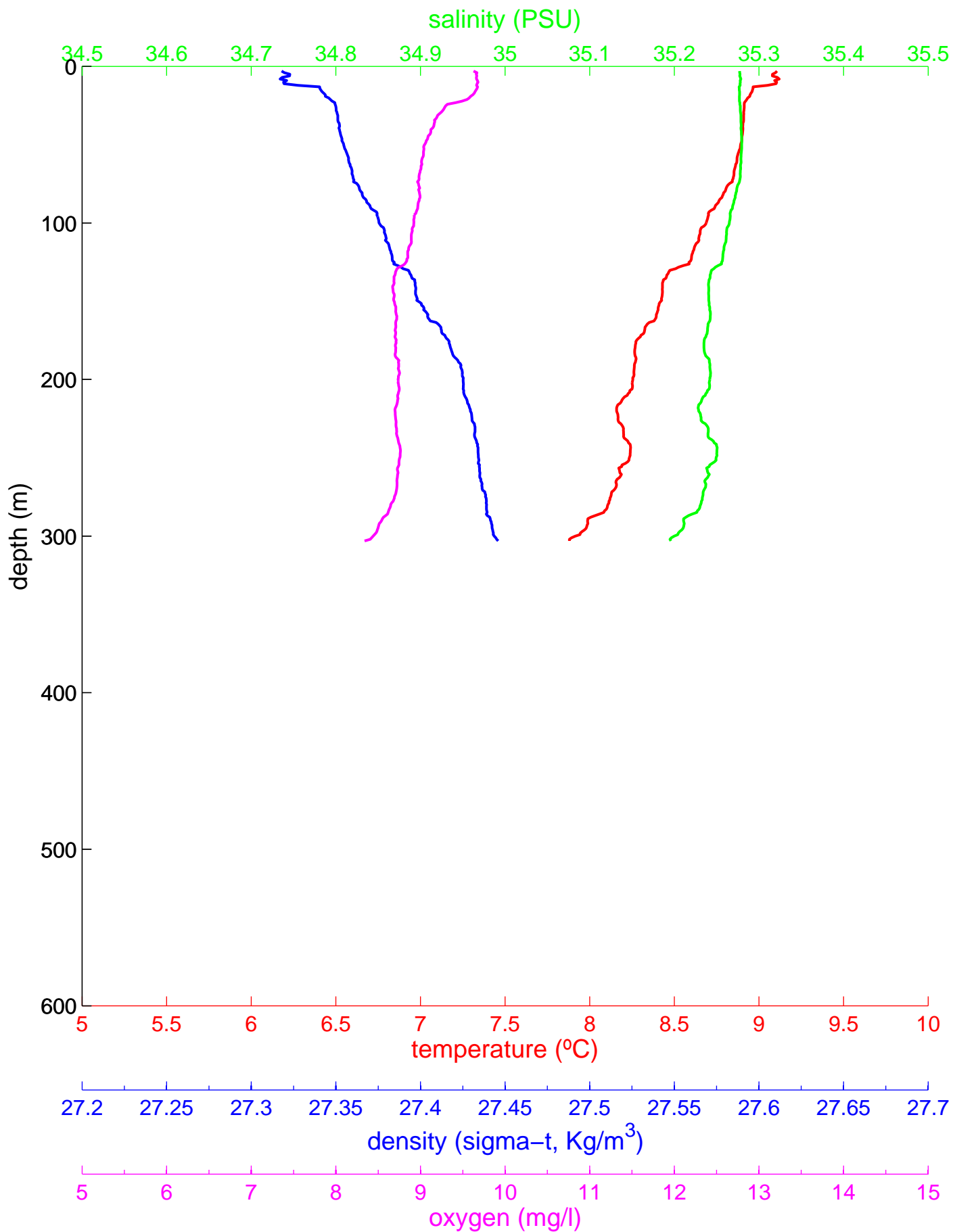
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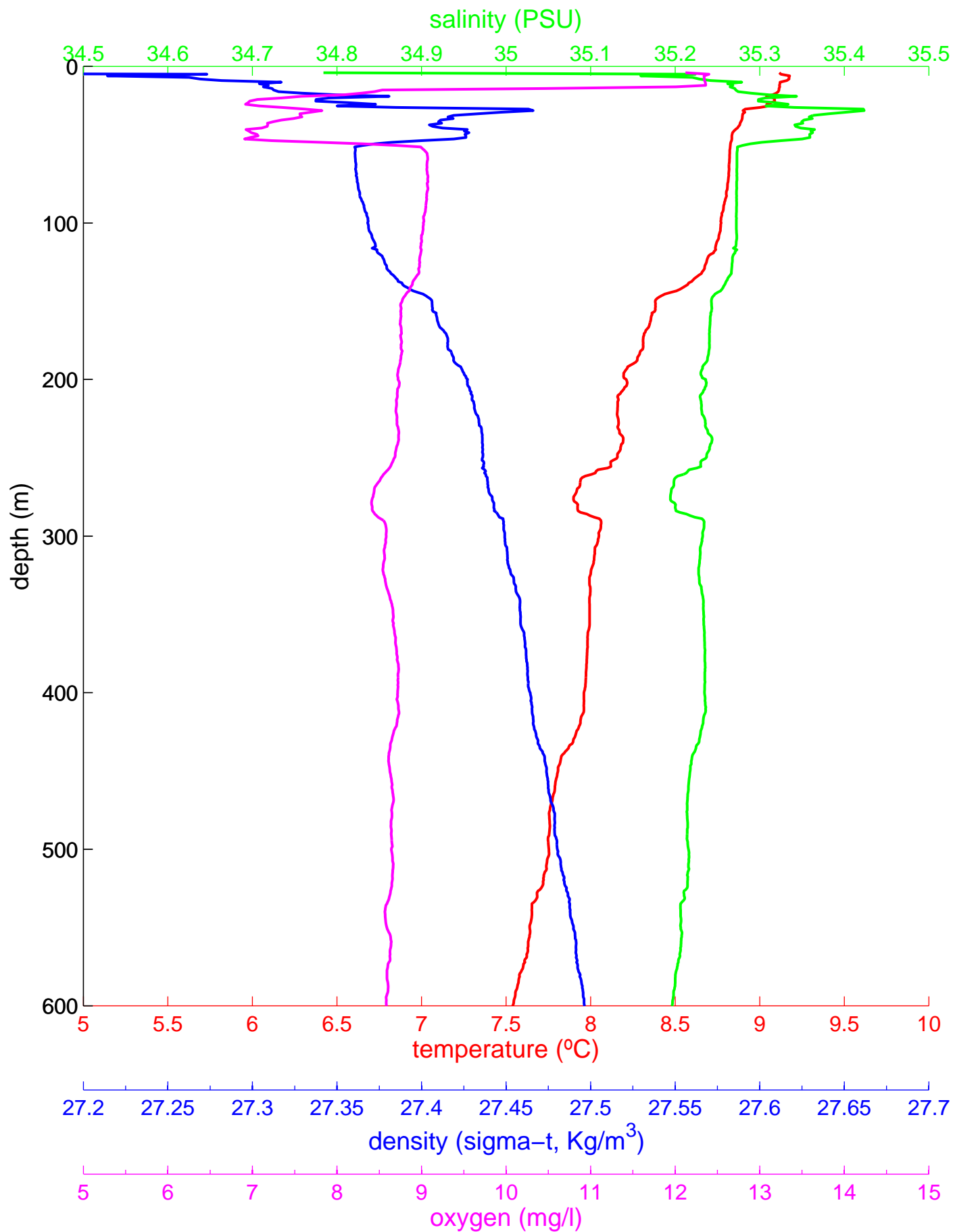
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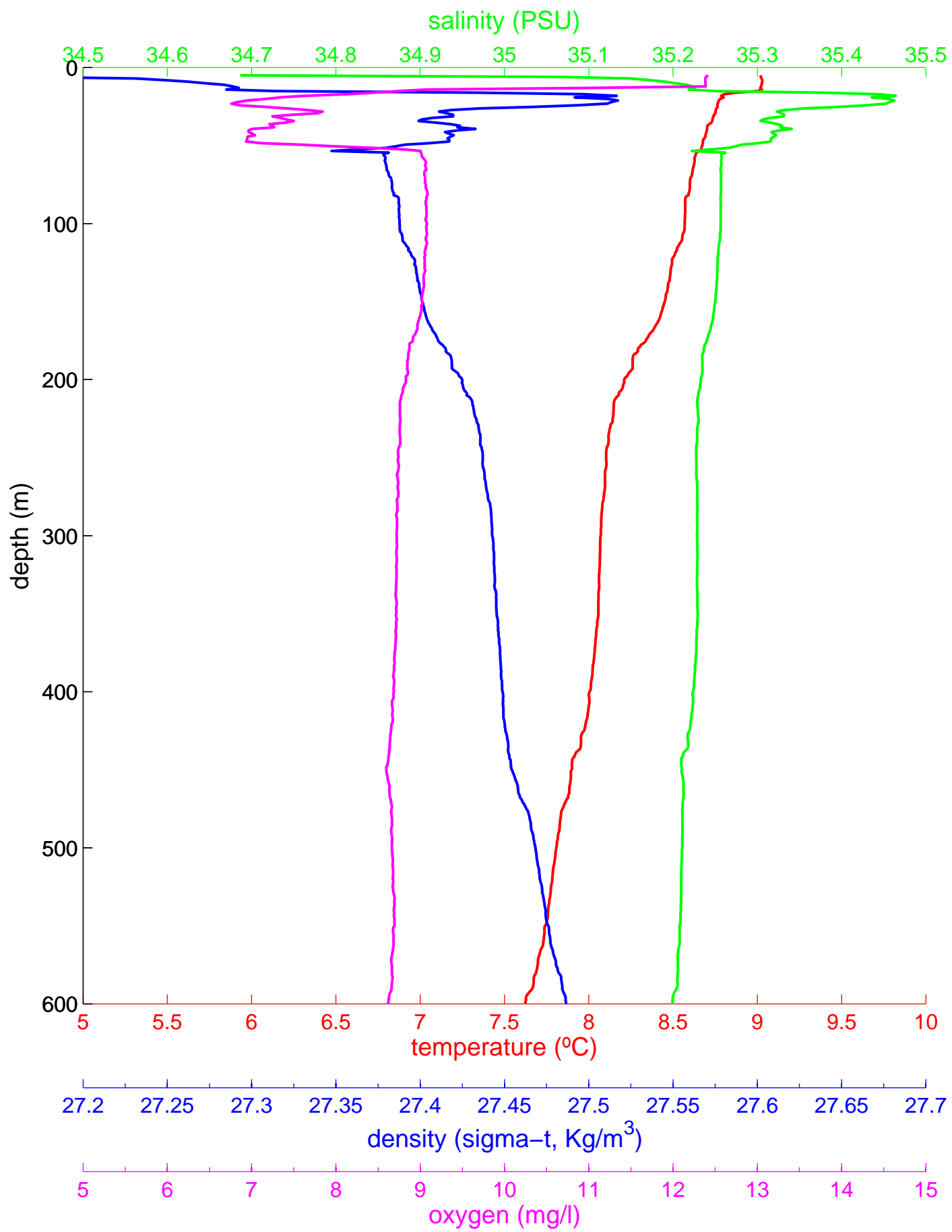
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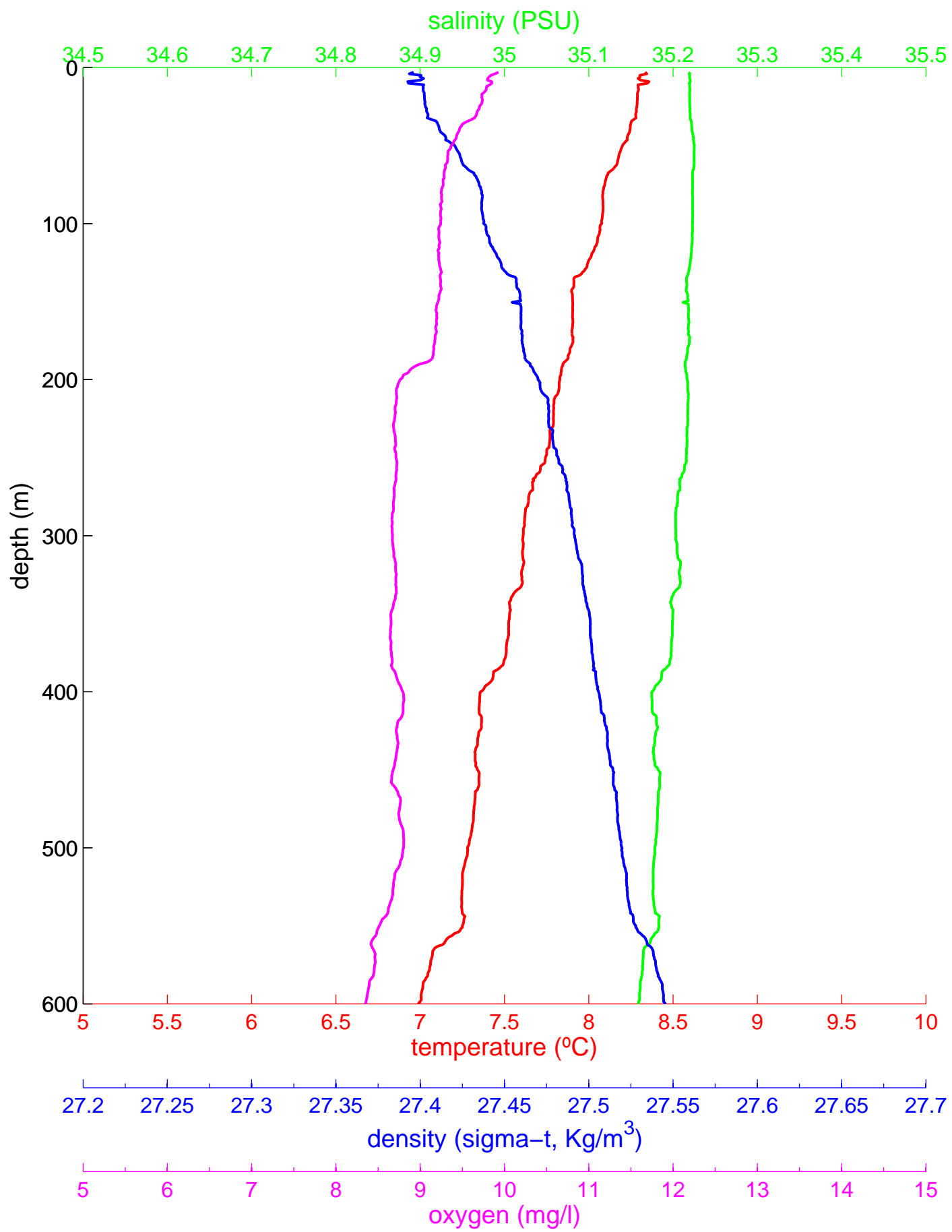
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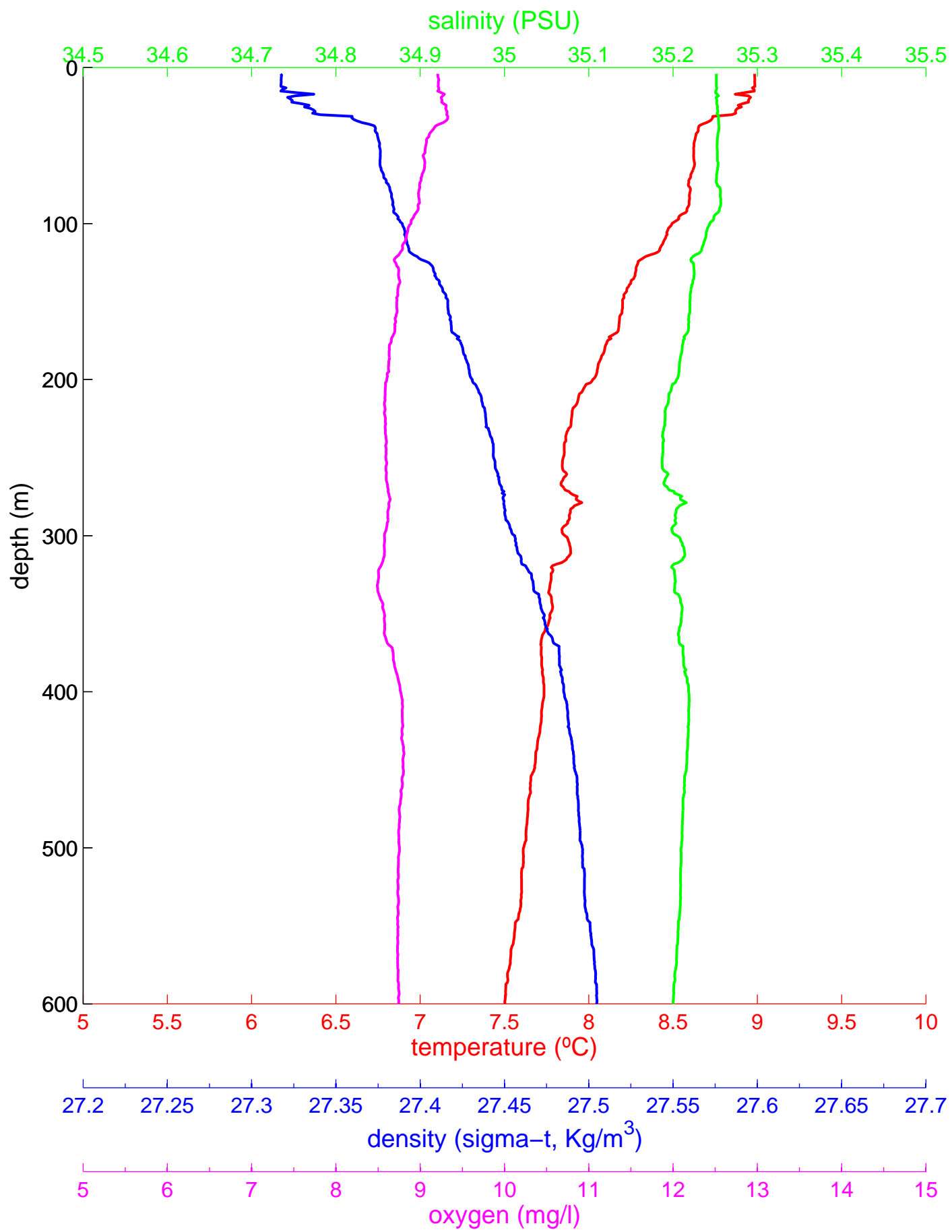
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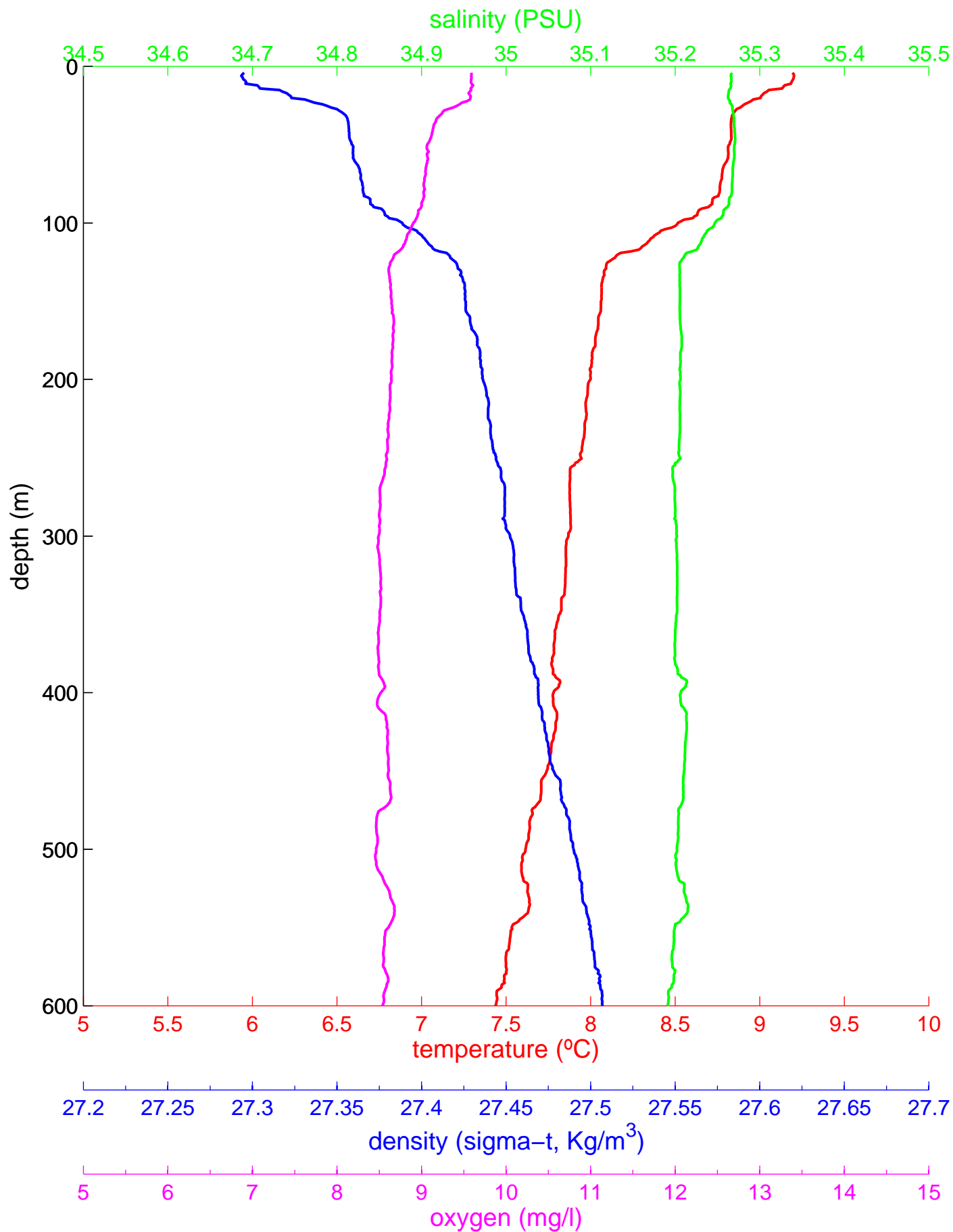


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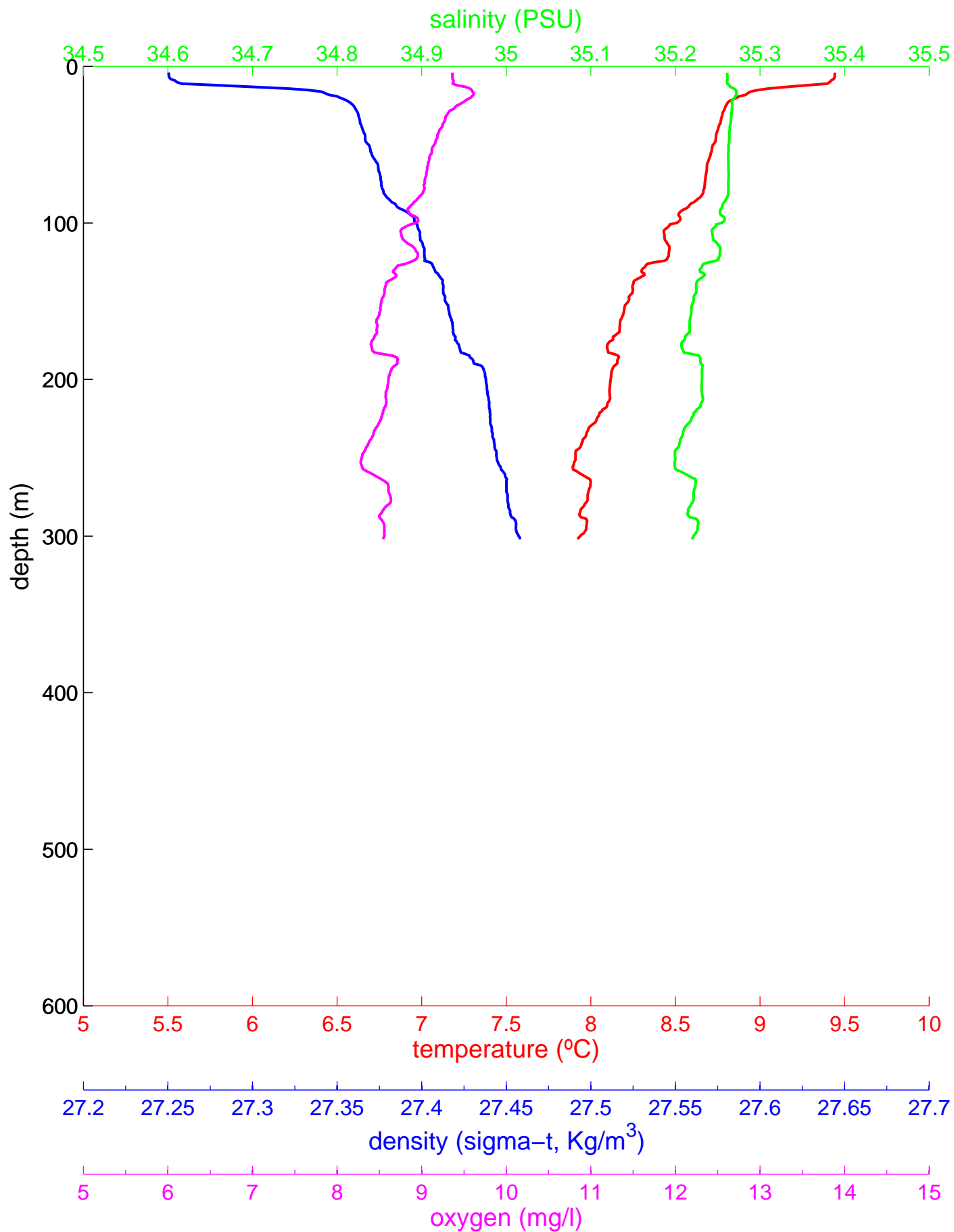




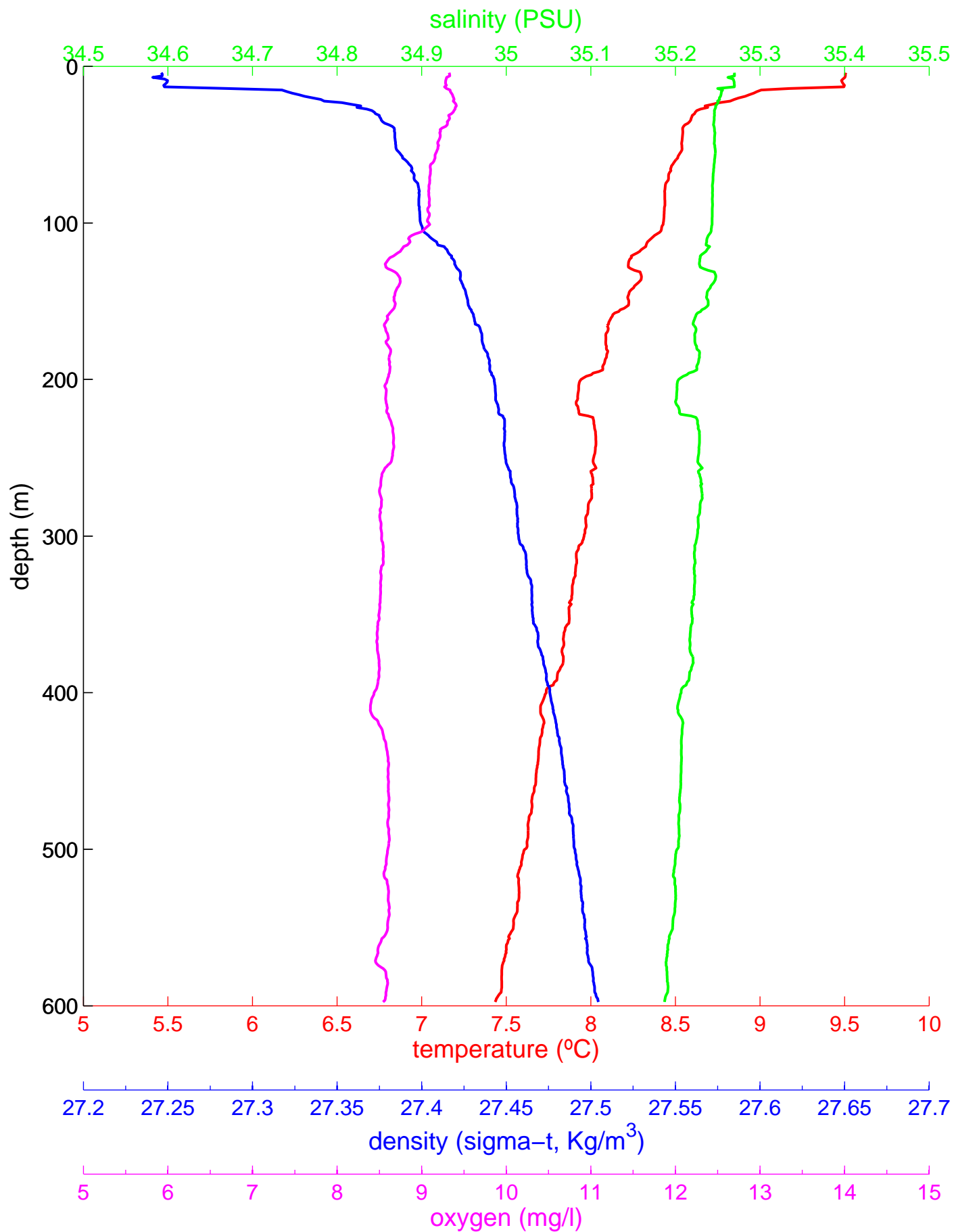
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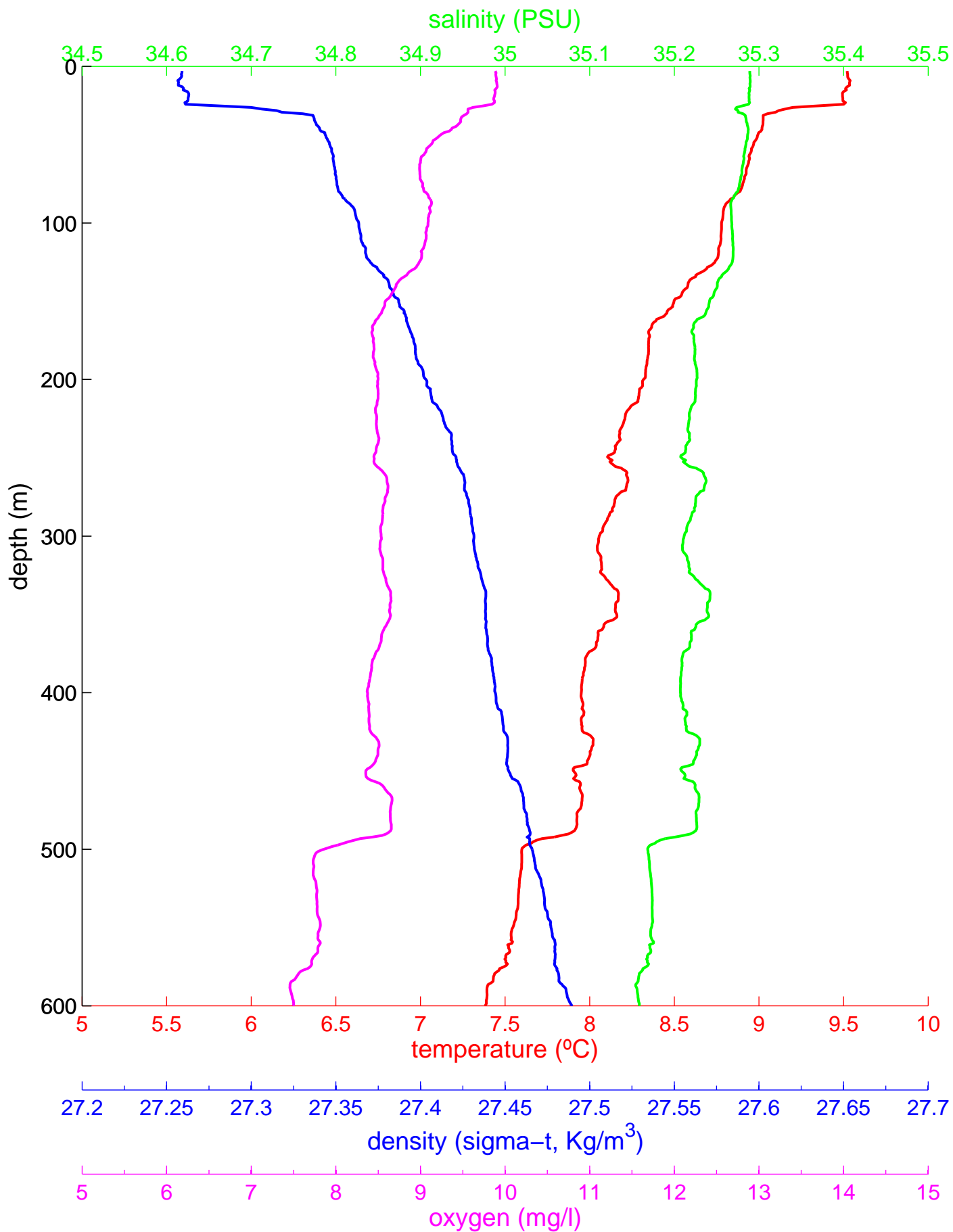
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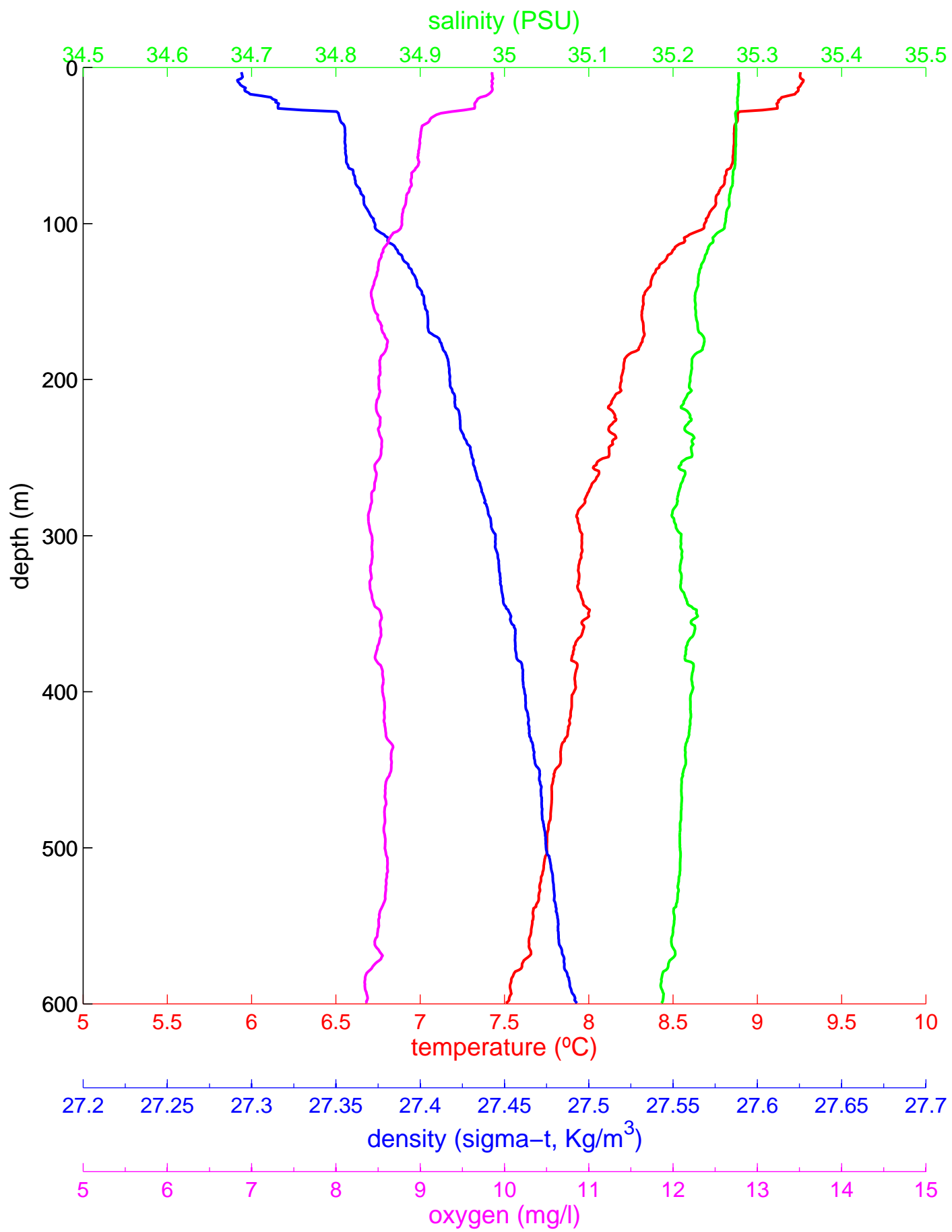
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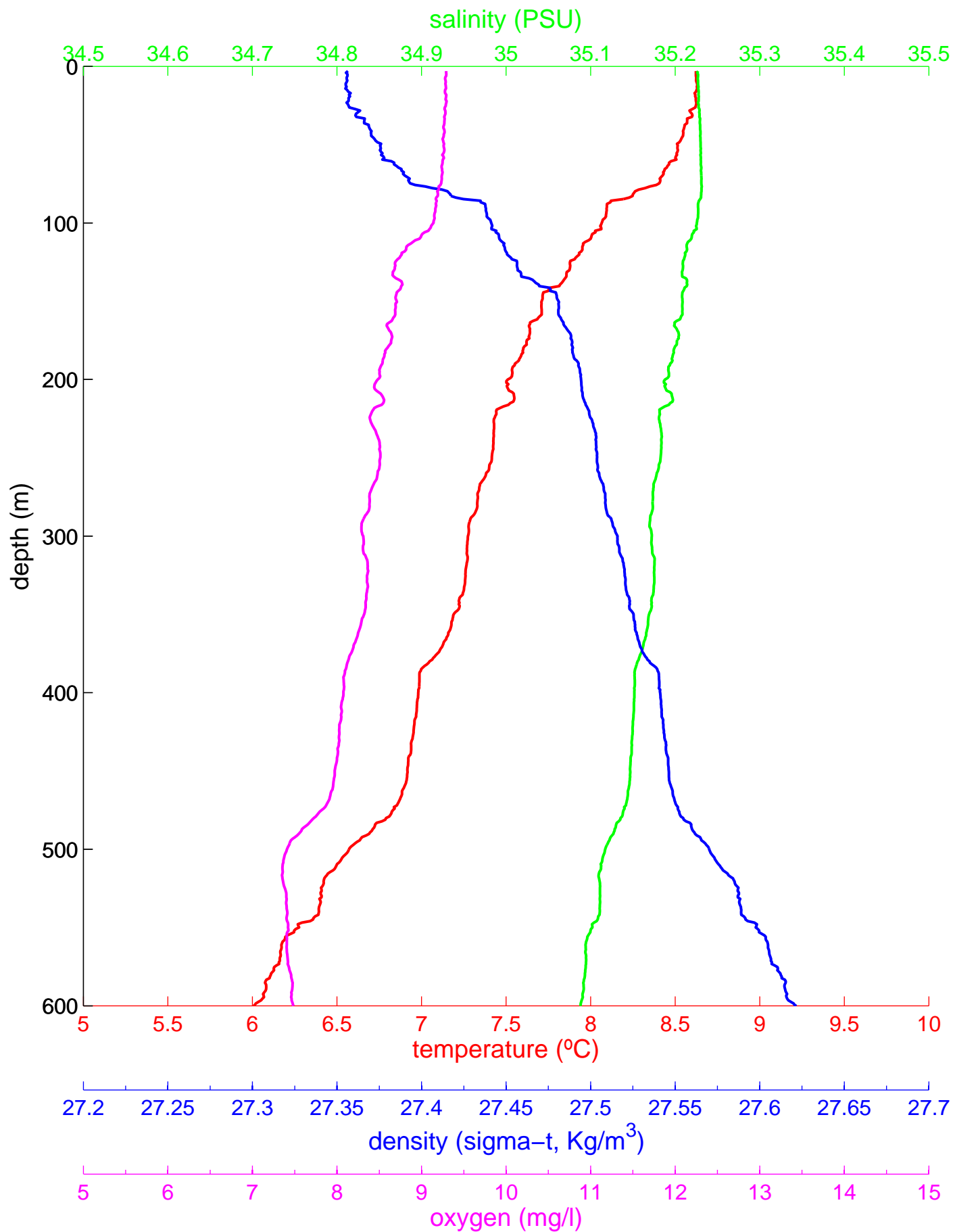
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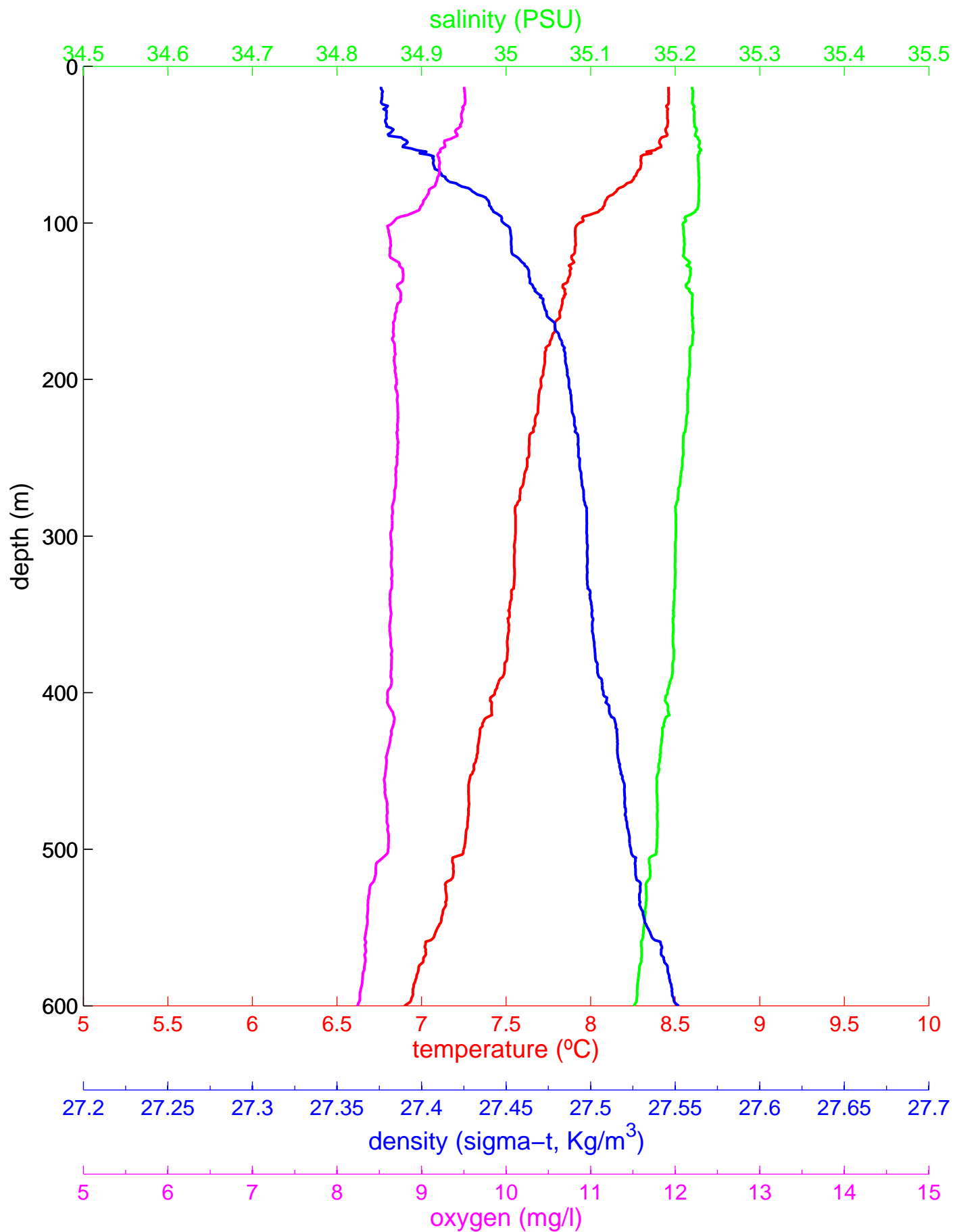
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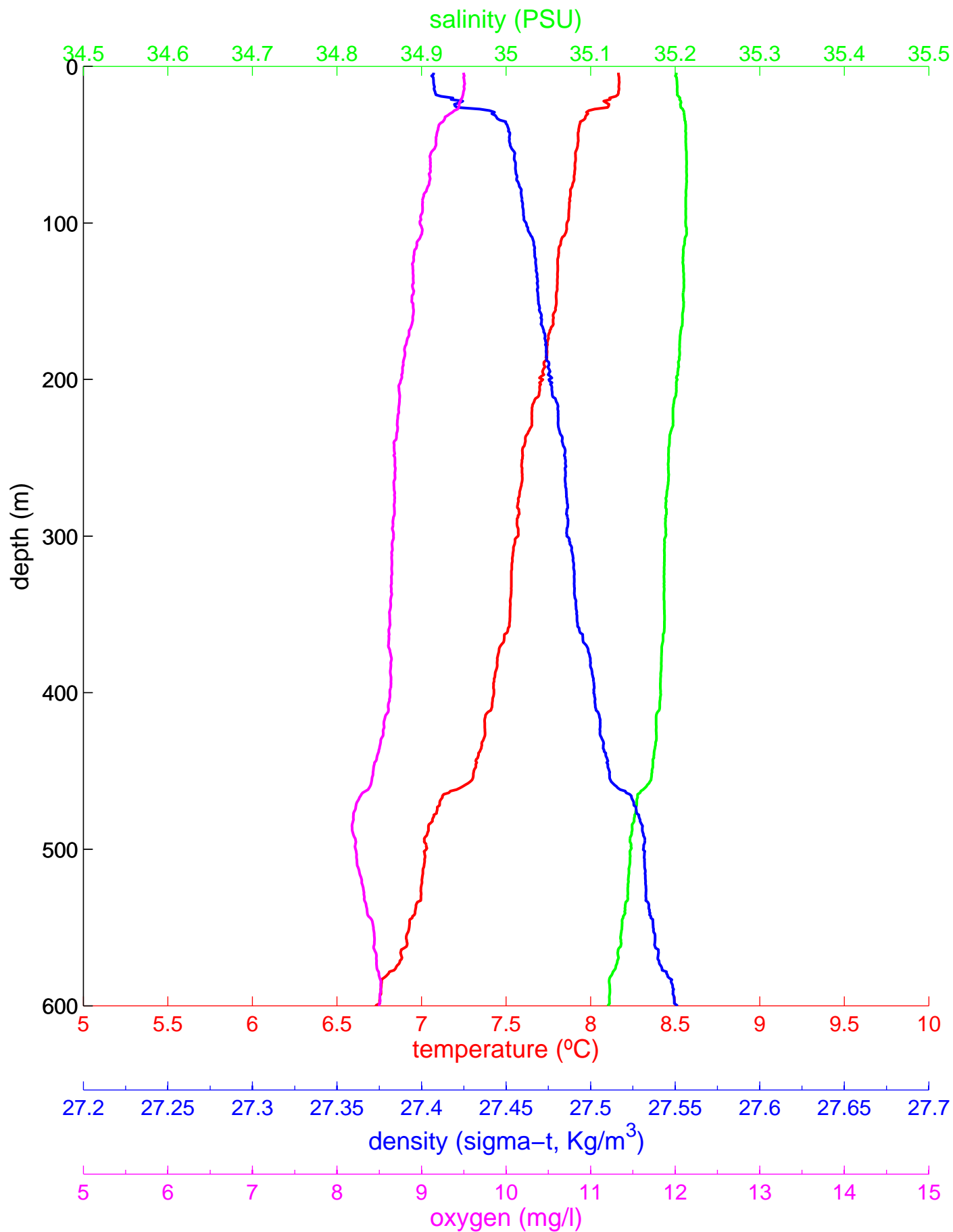
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St: 30a Cast: 026 09-May-2008 05:13:29

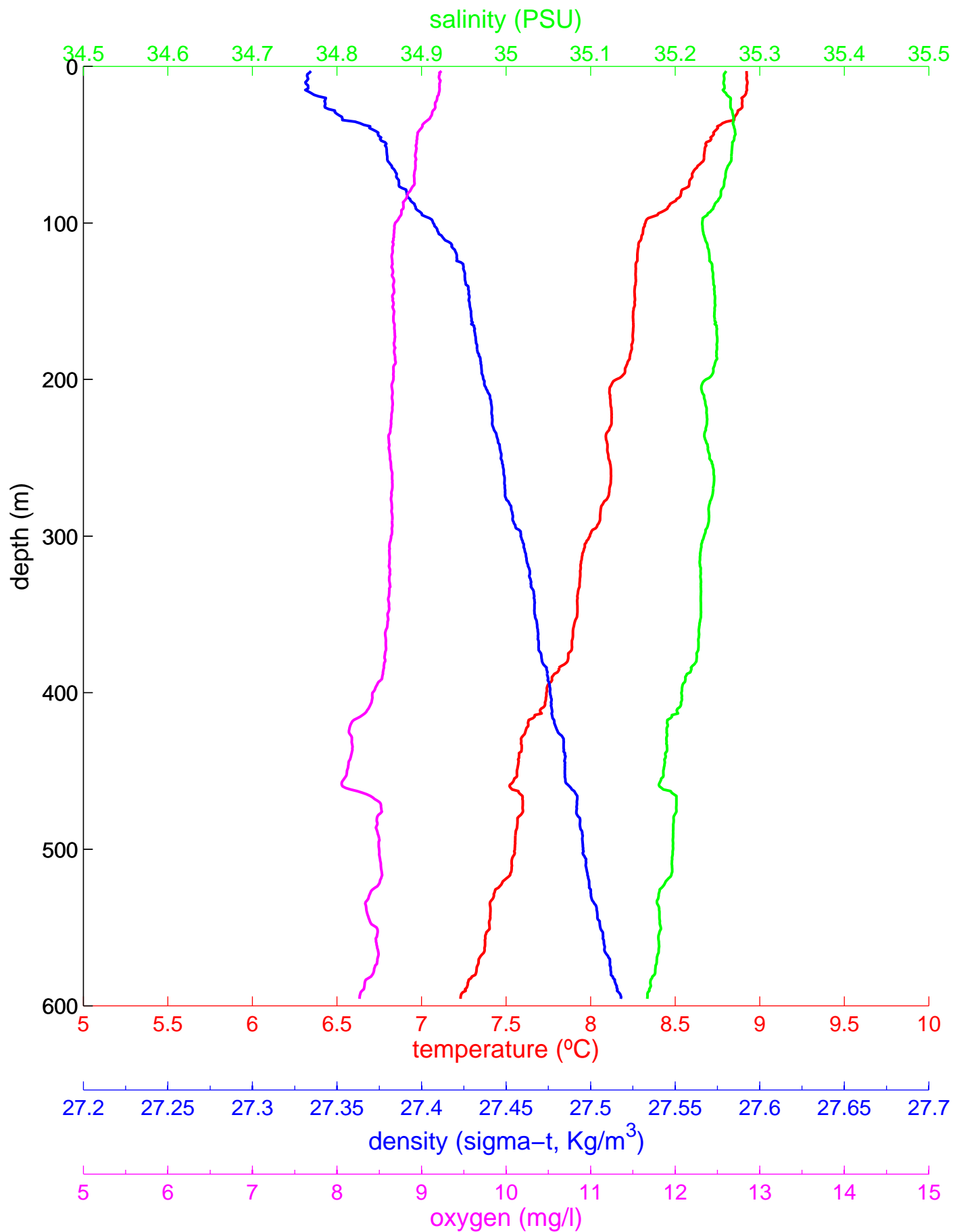


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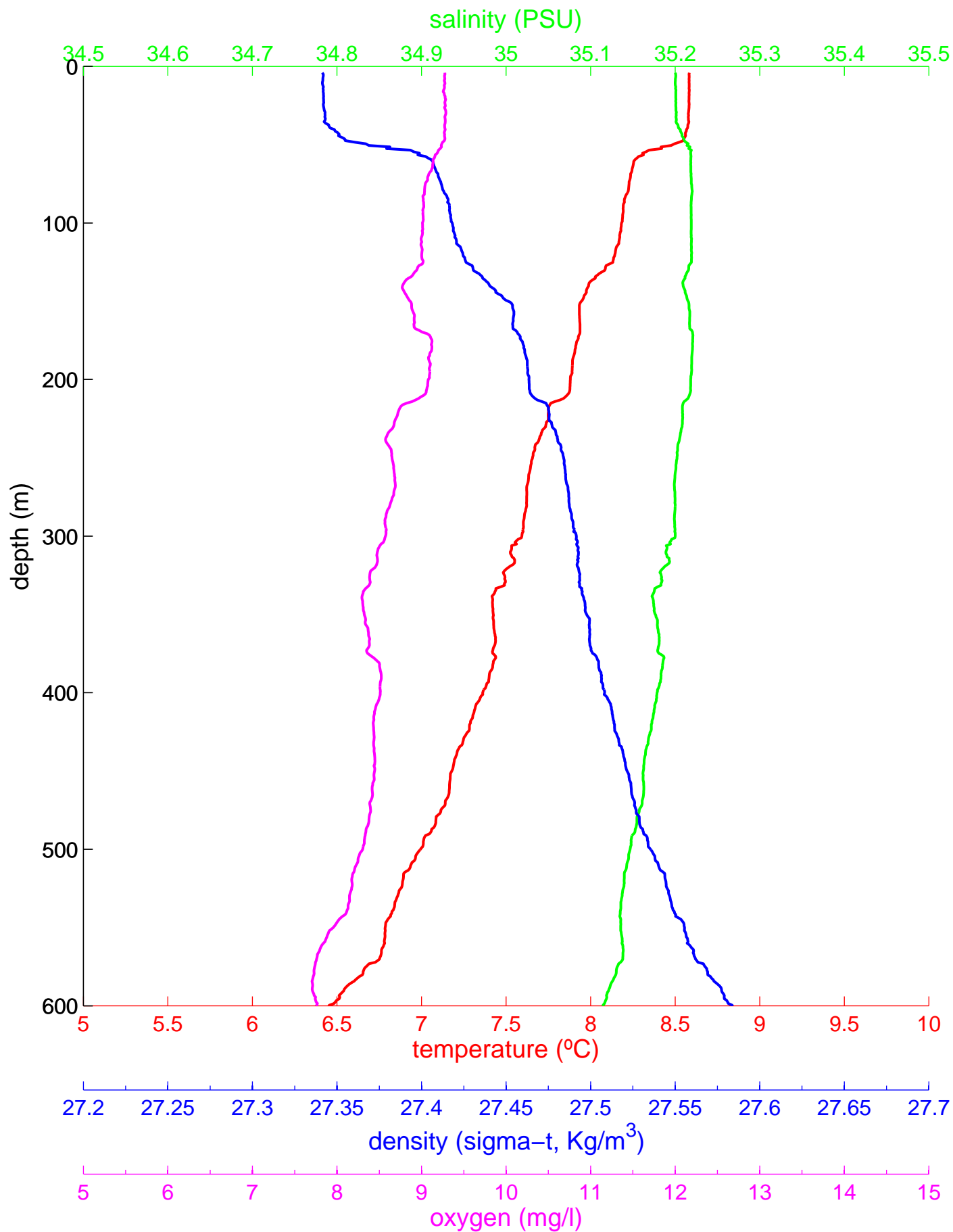




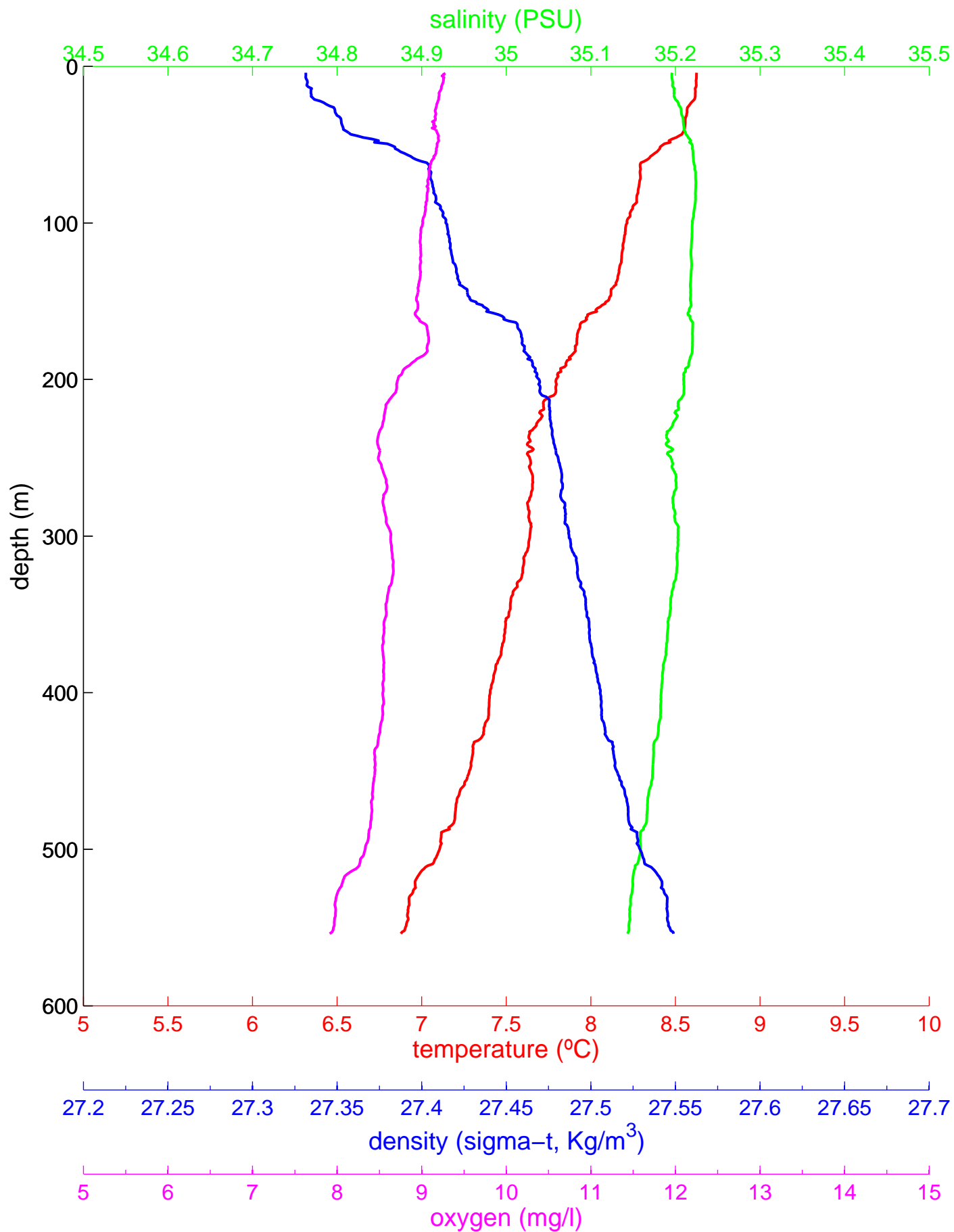
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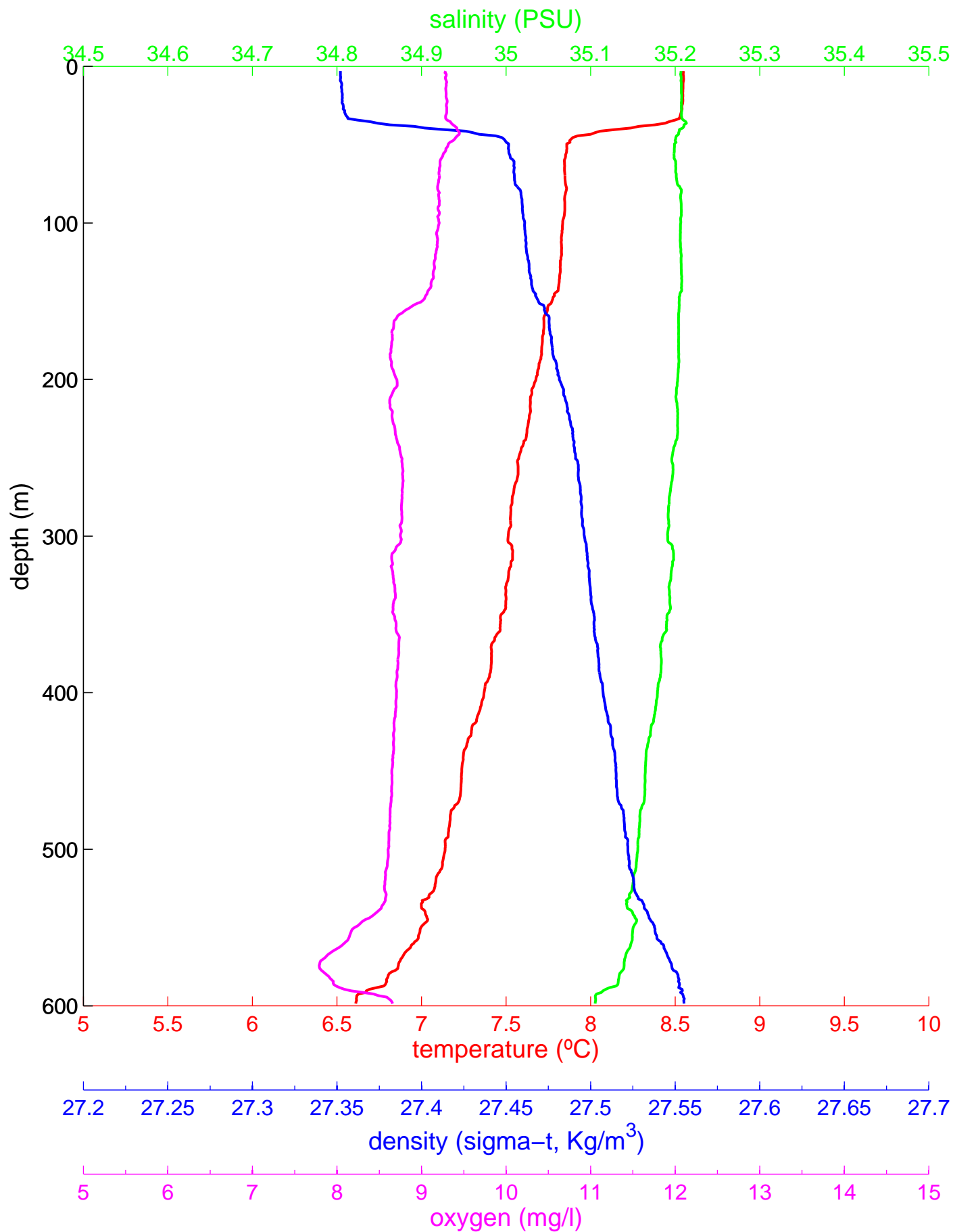
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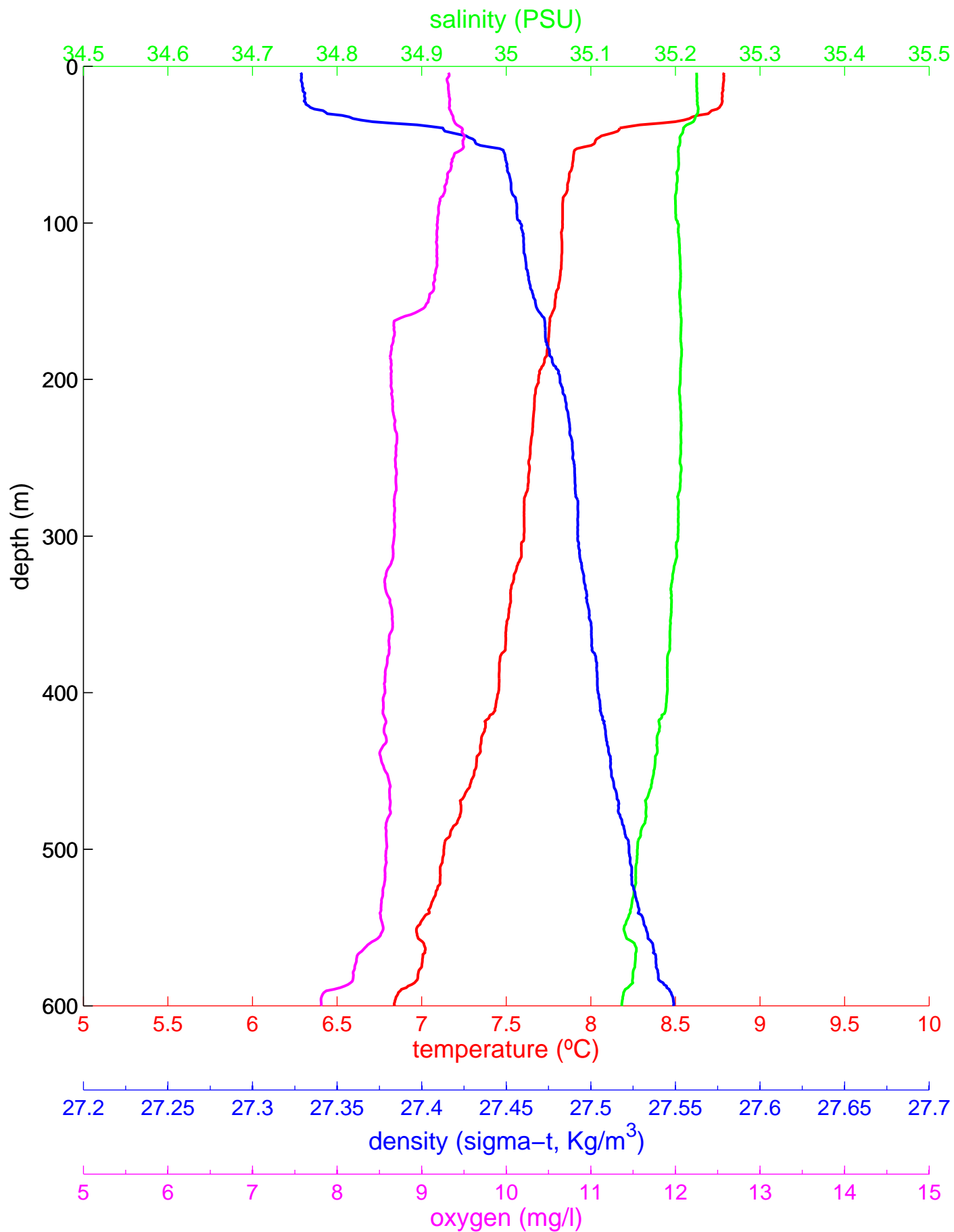
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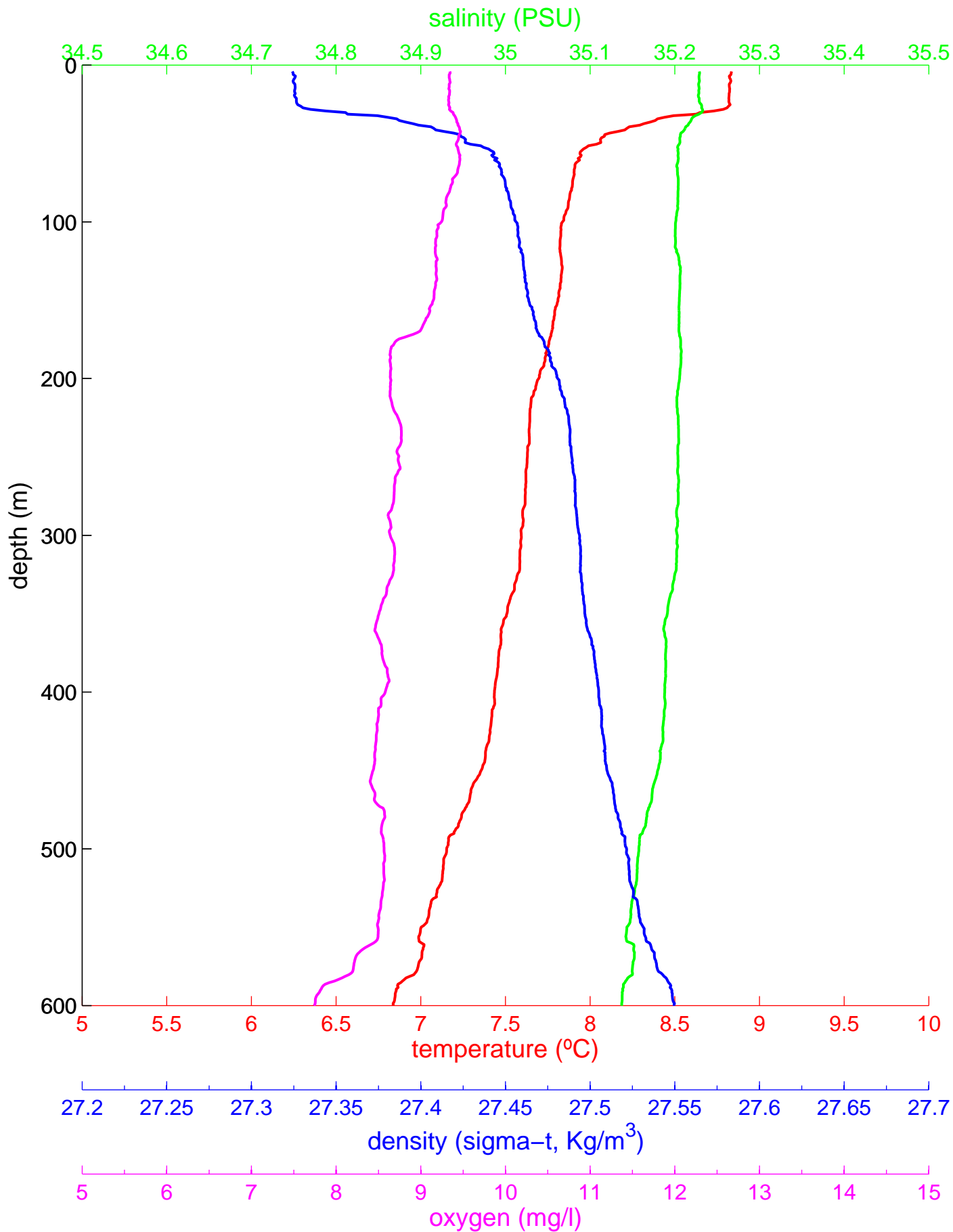
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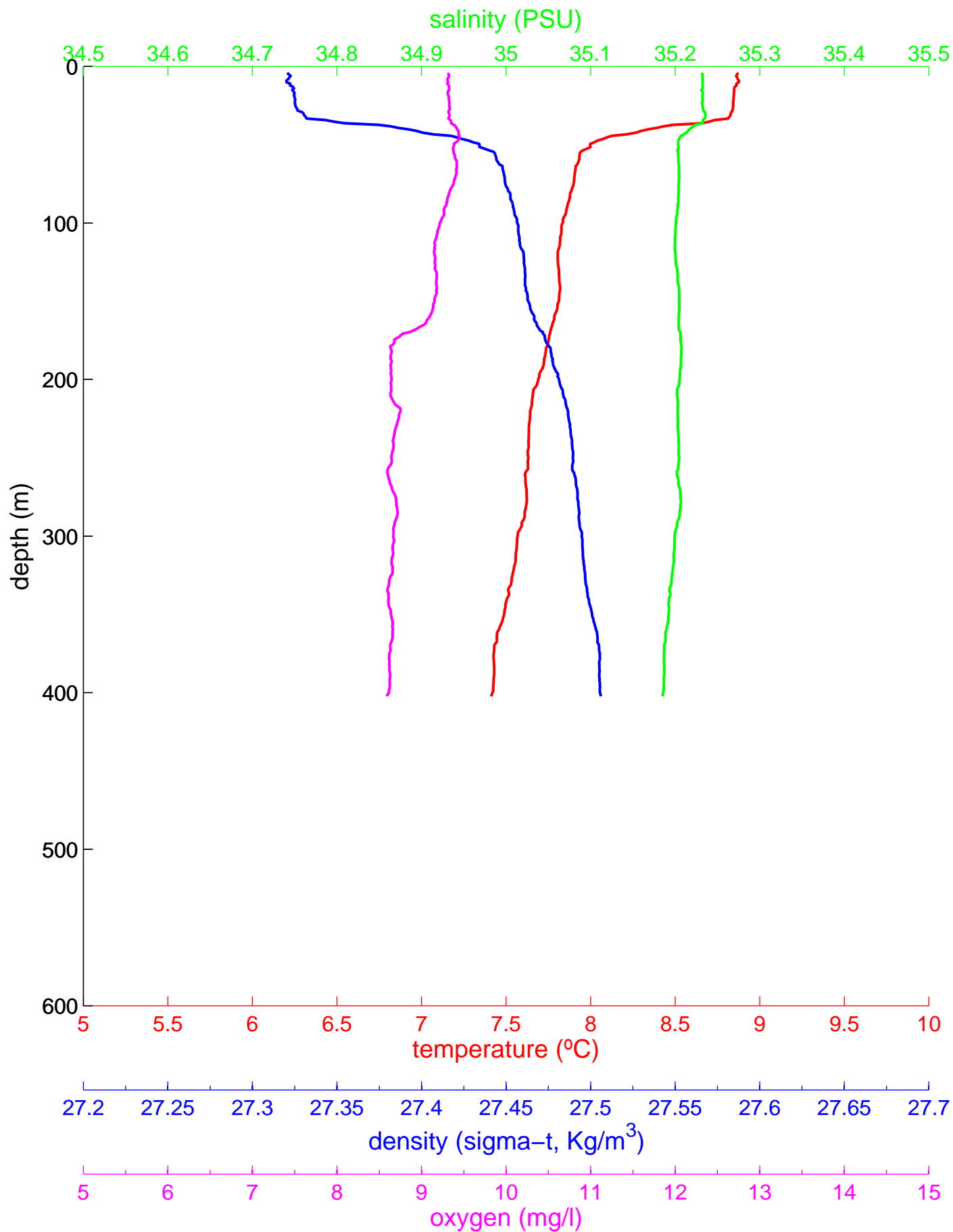
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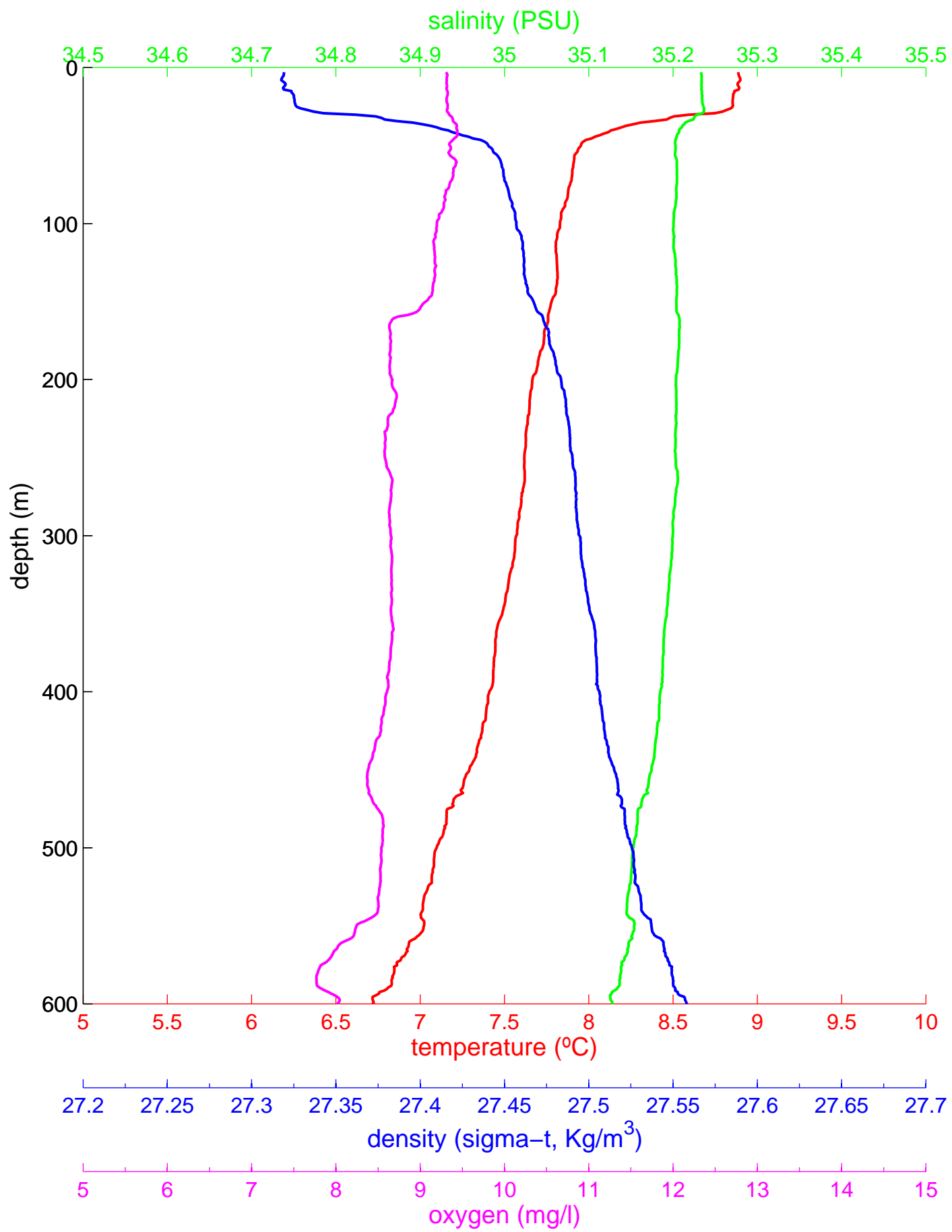
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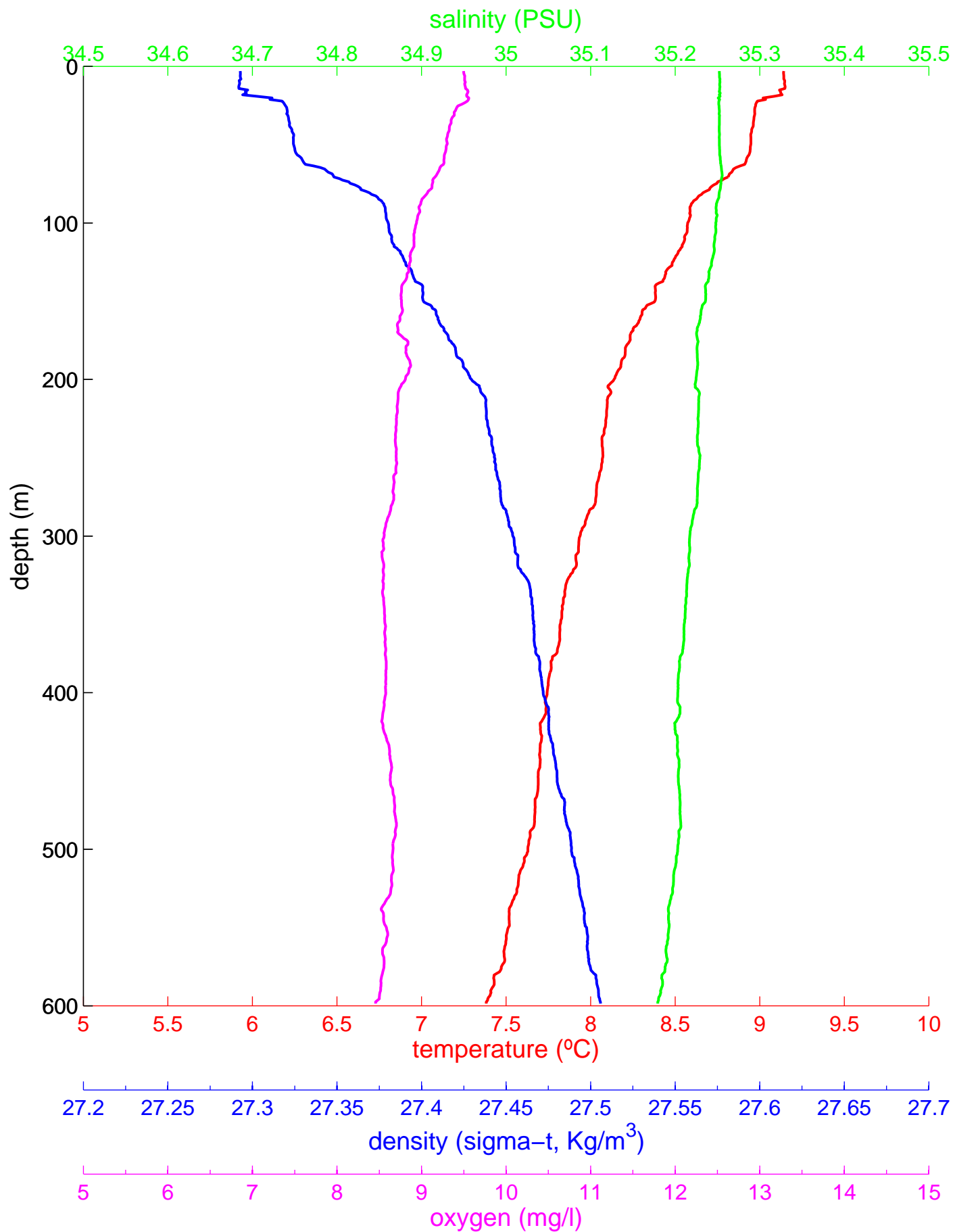


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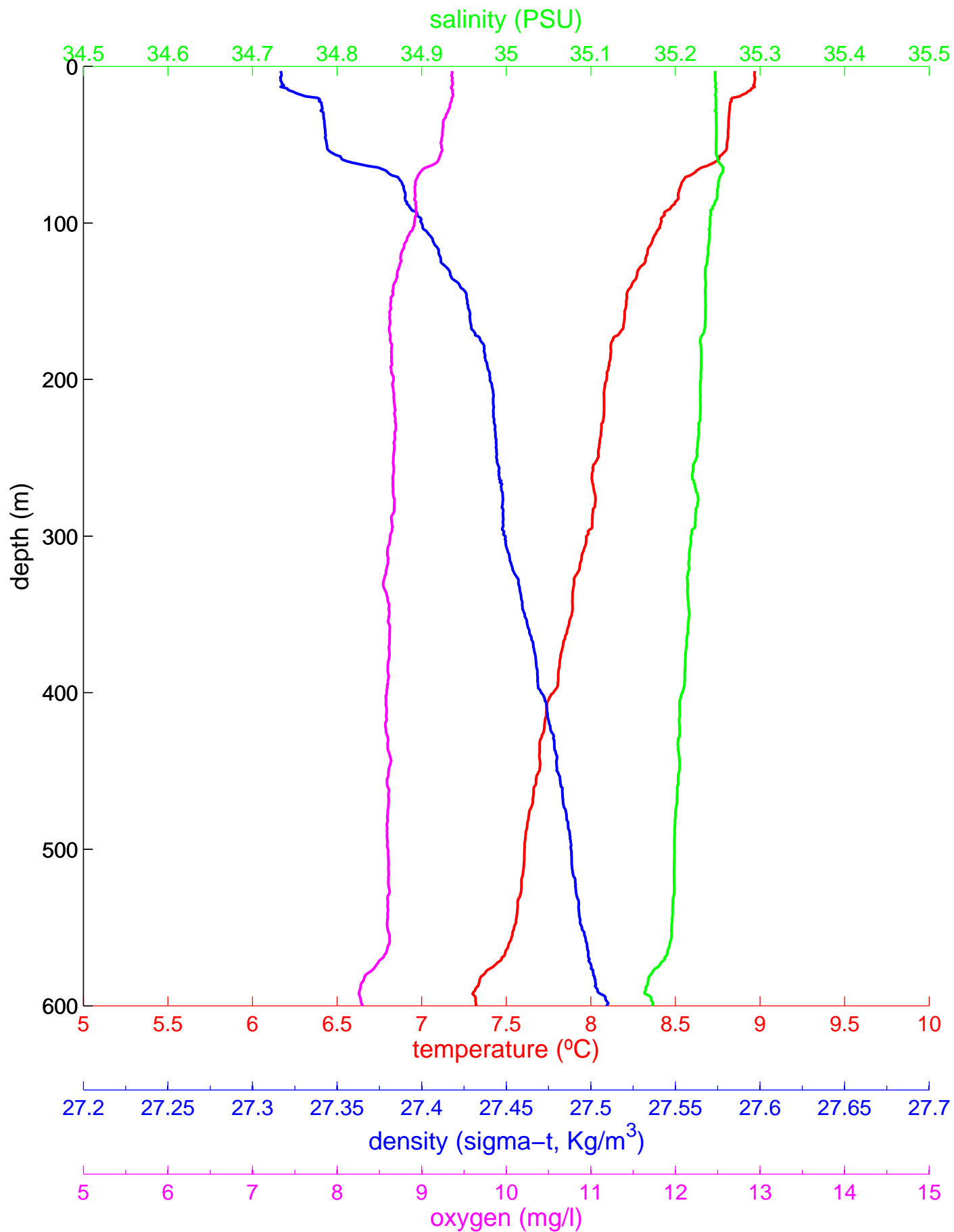




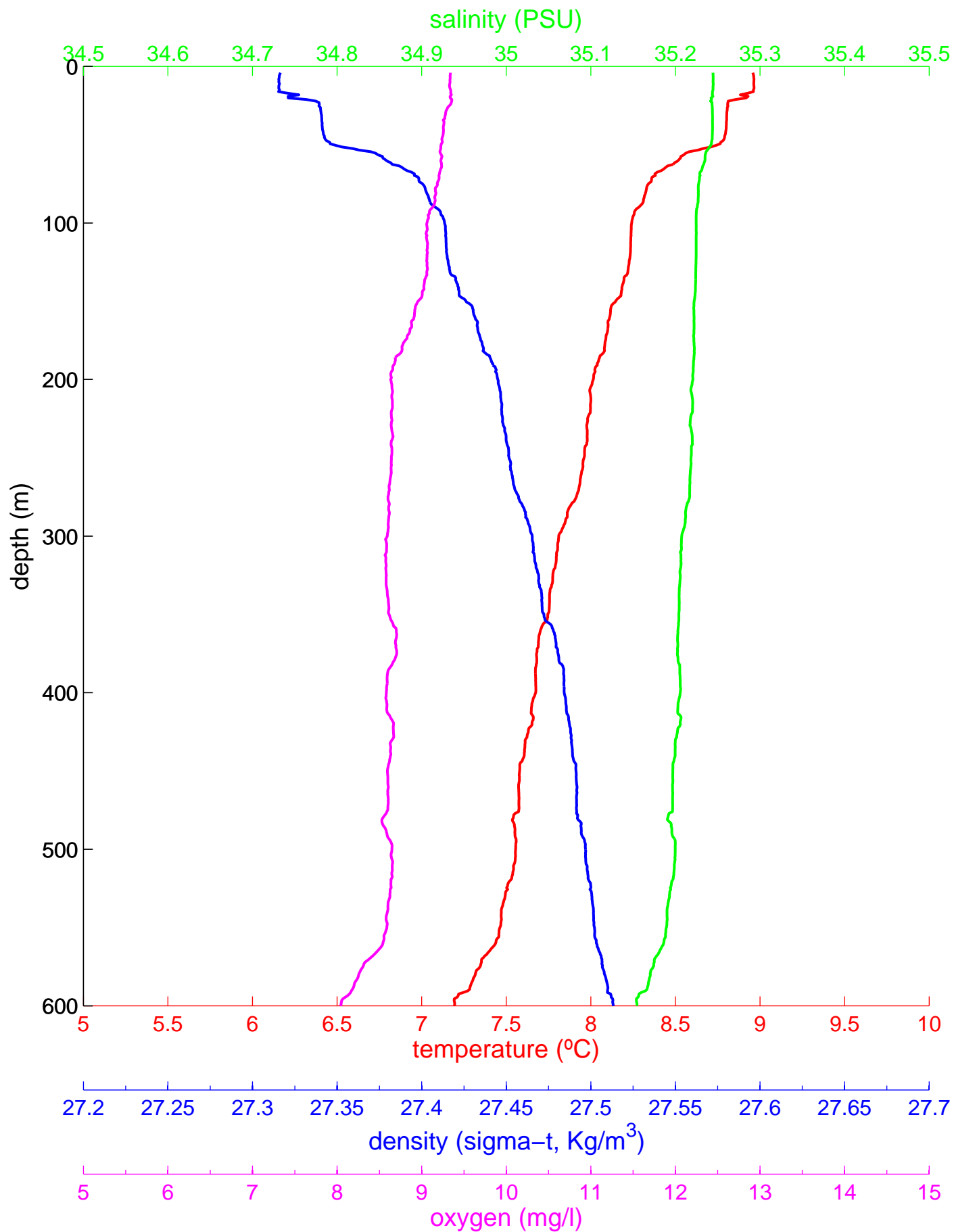
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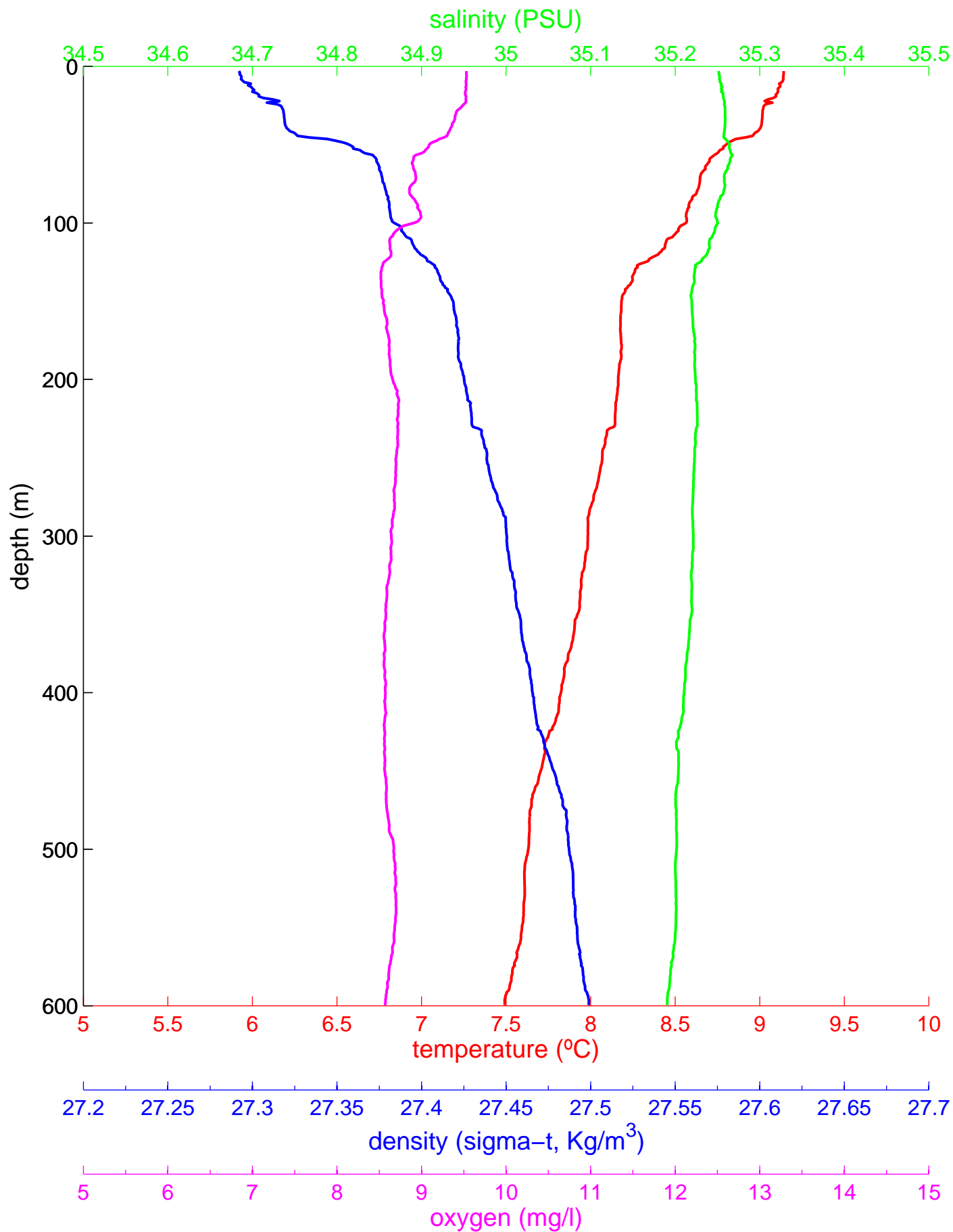
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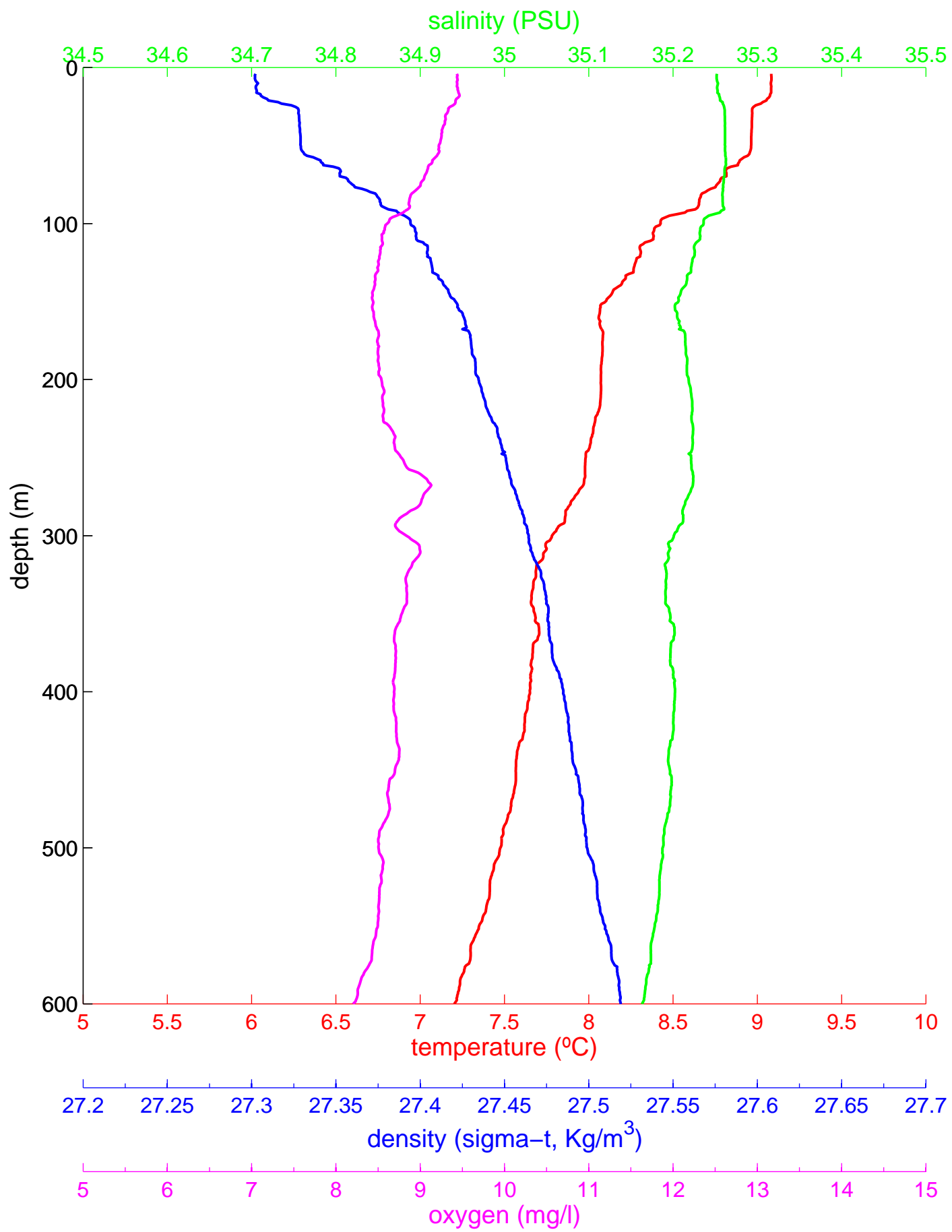
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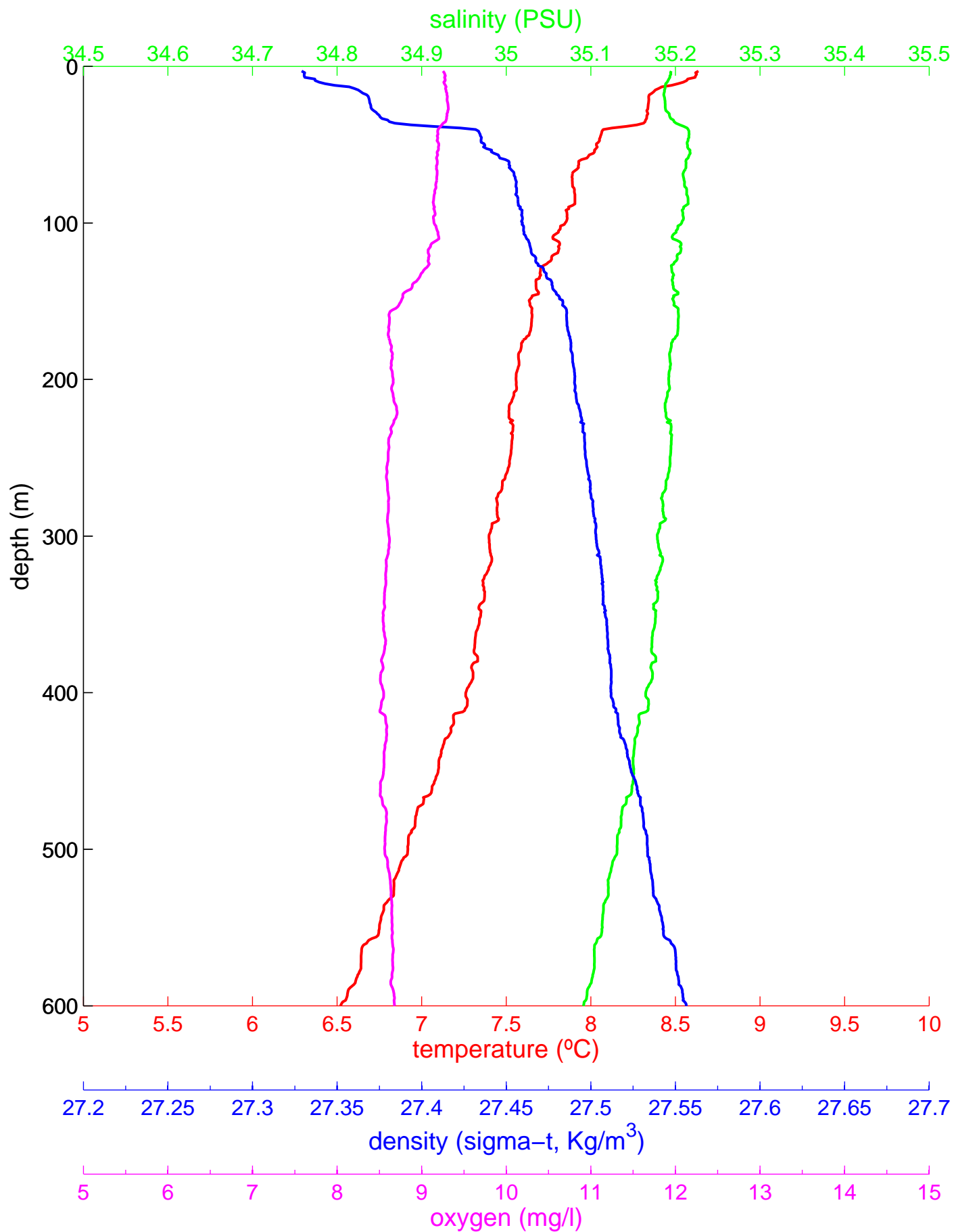
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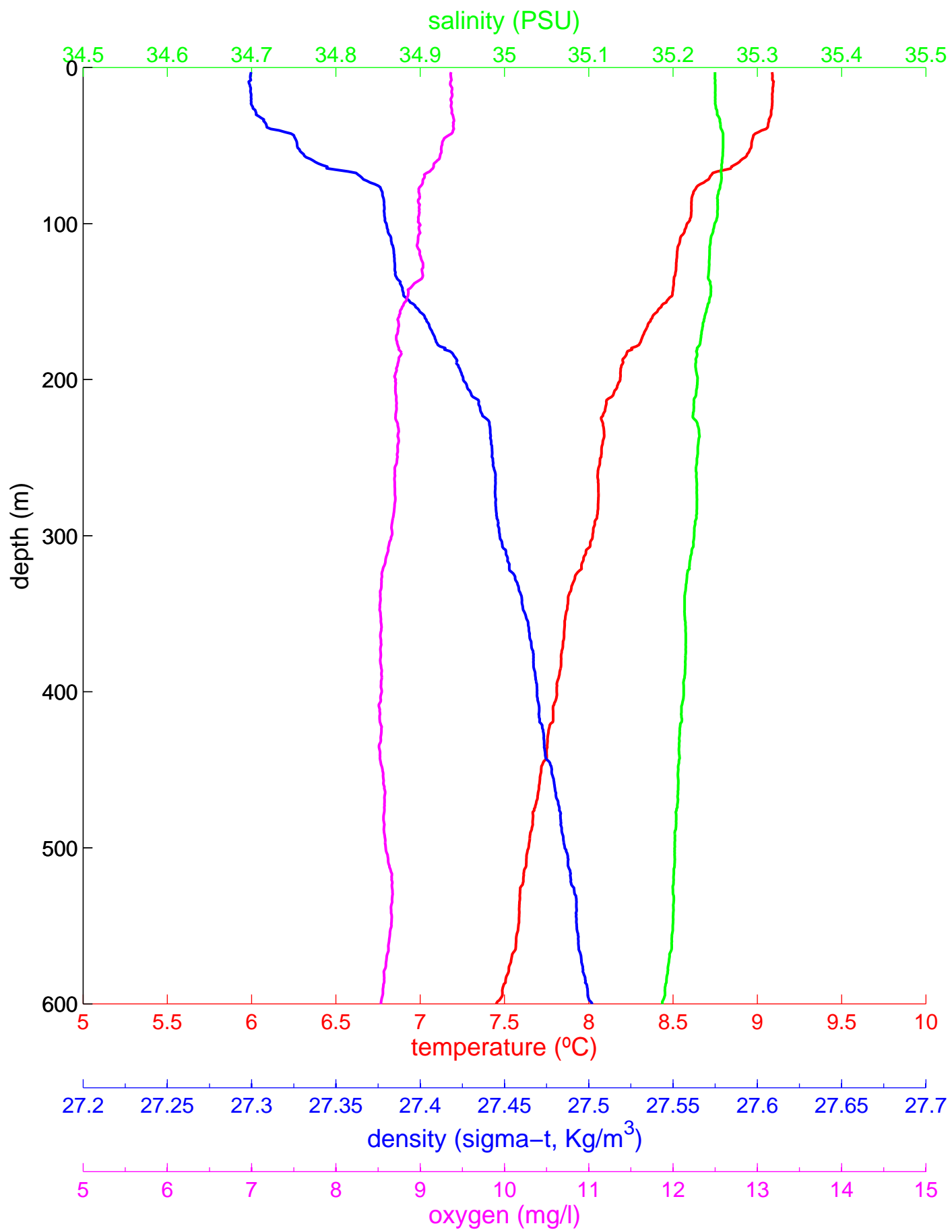
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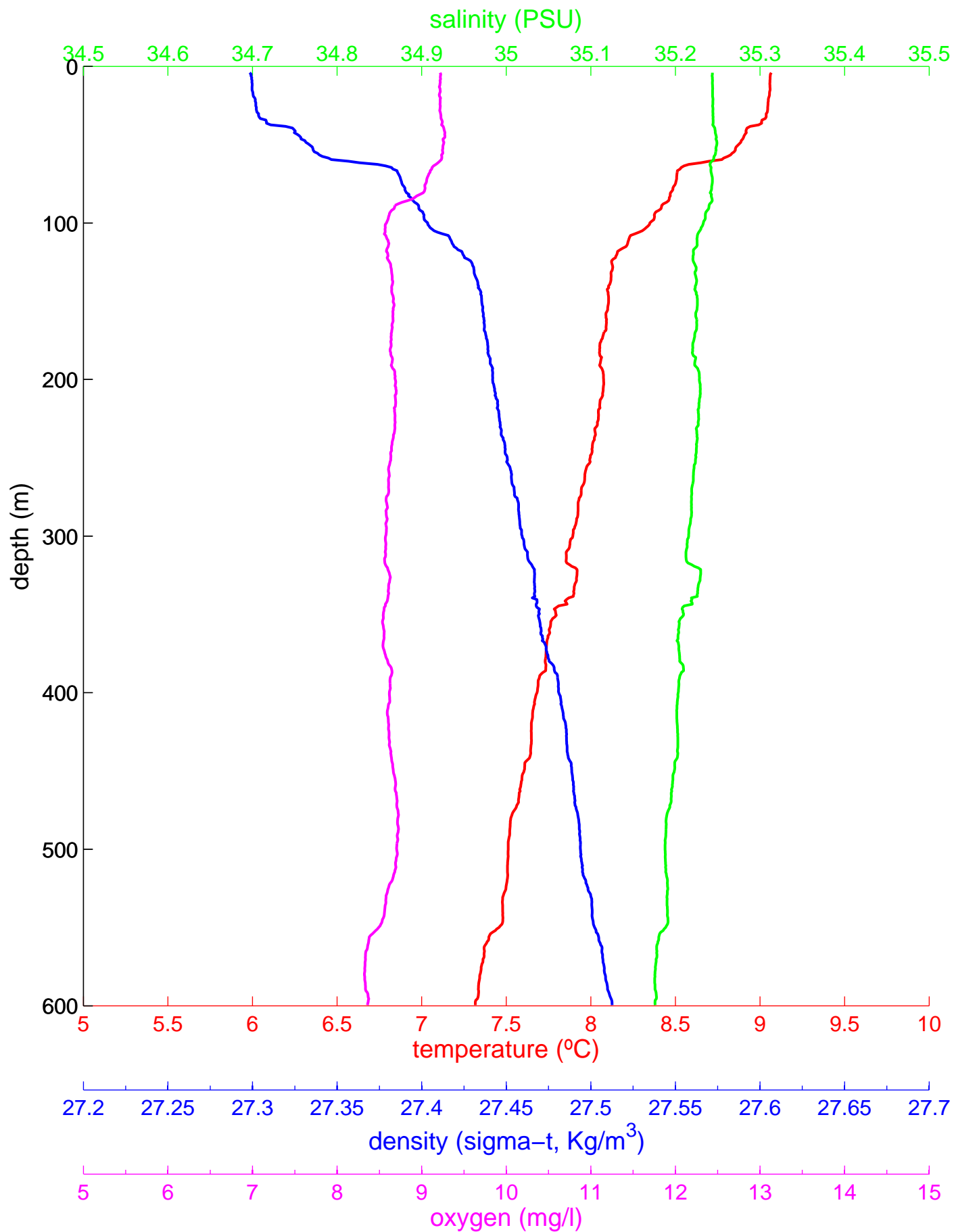
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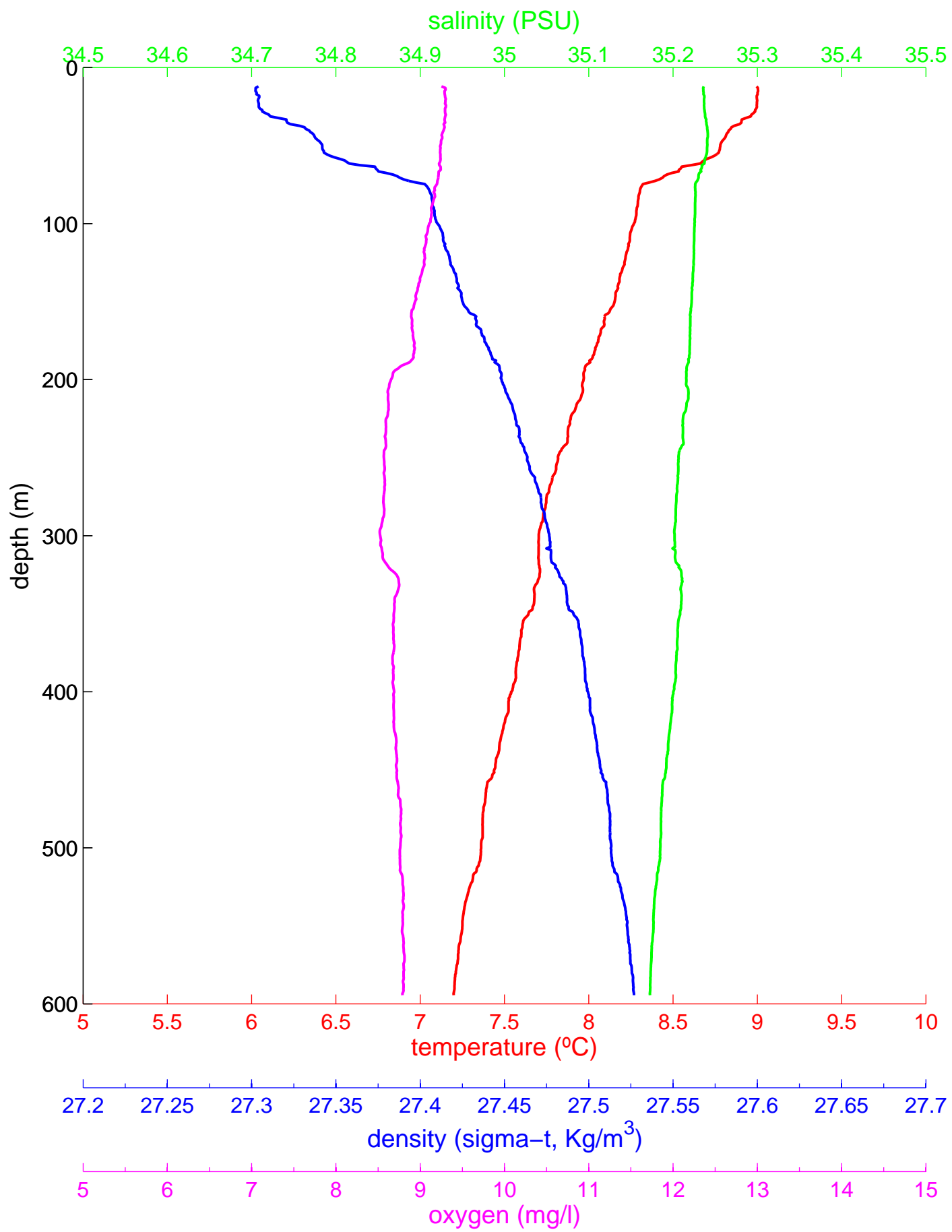


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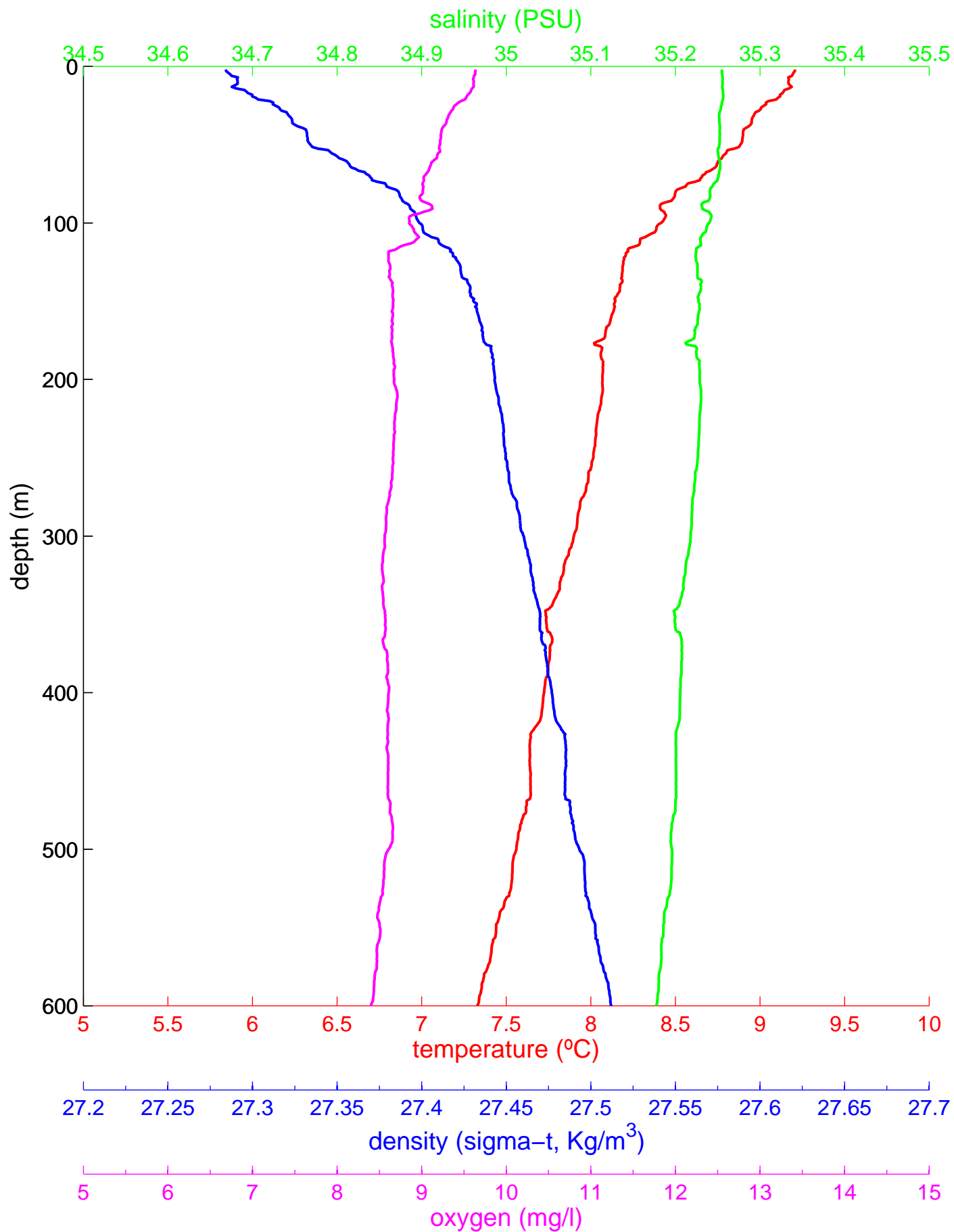




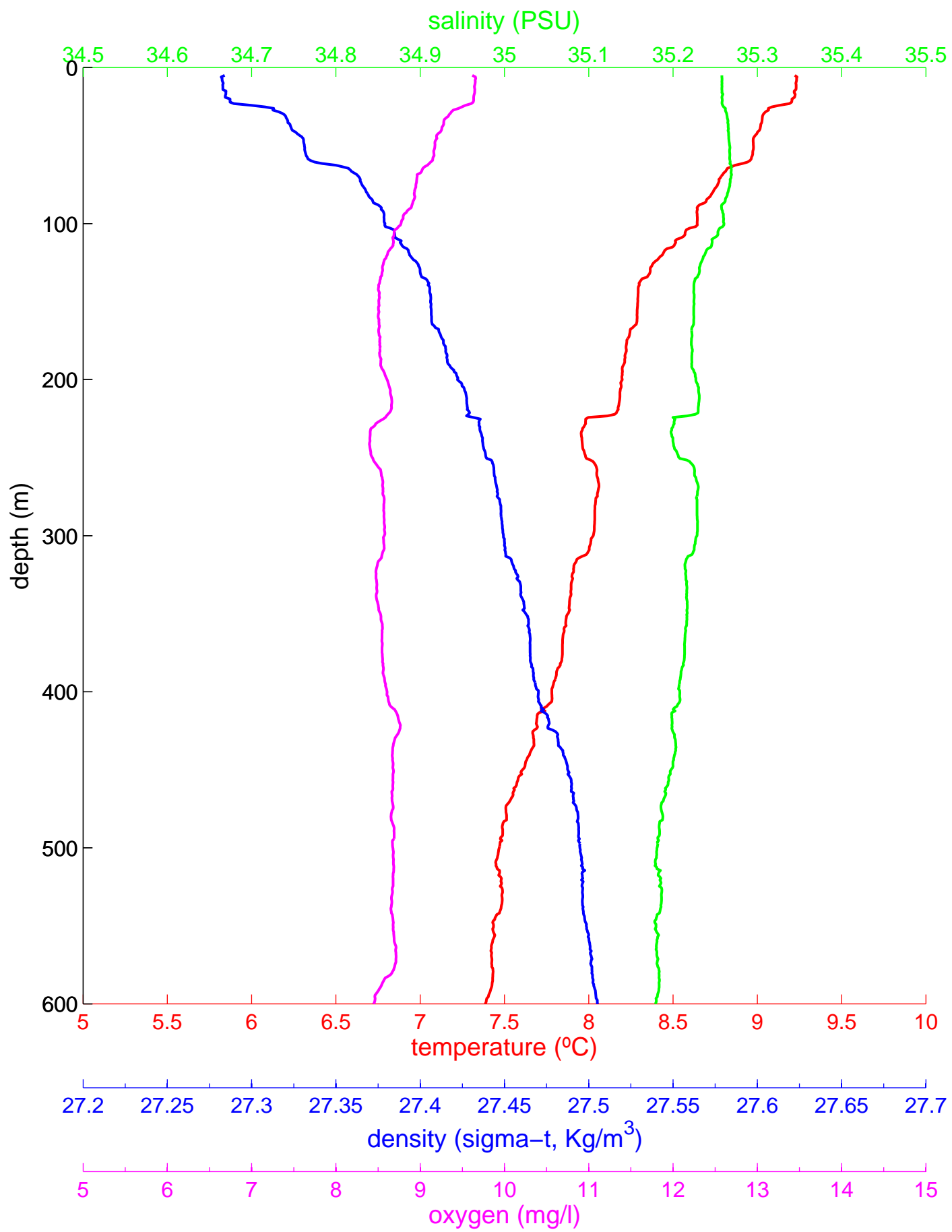
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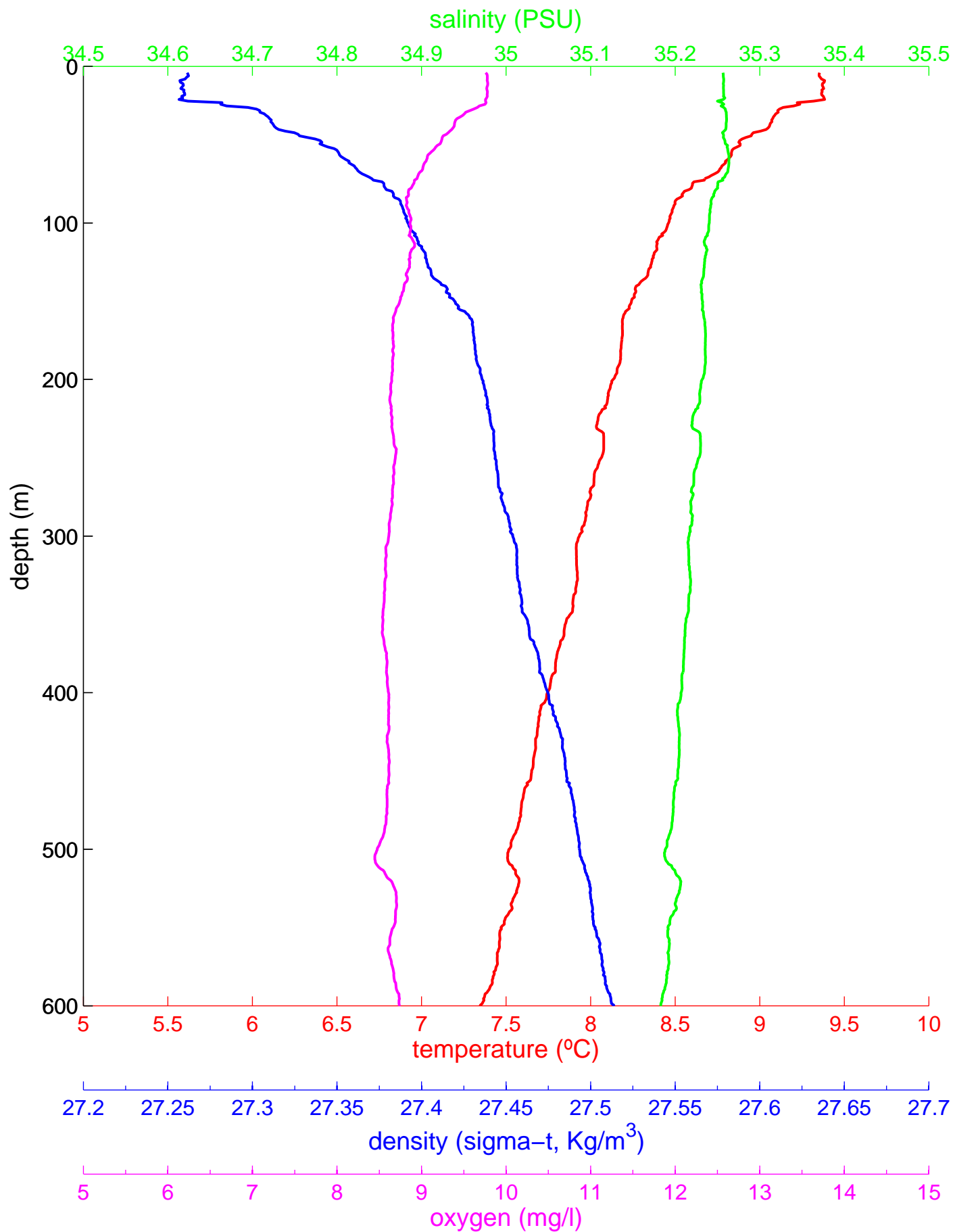
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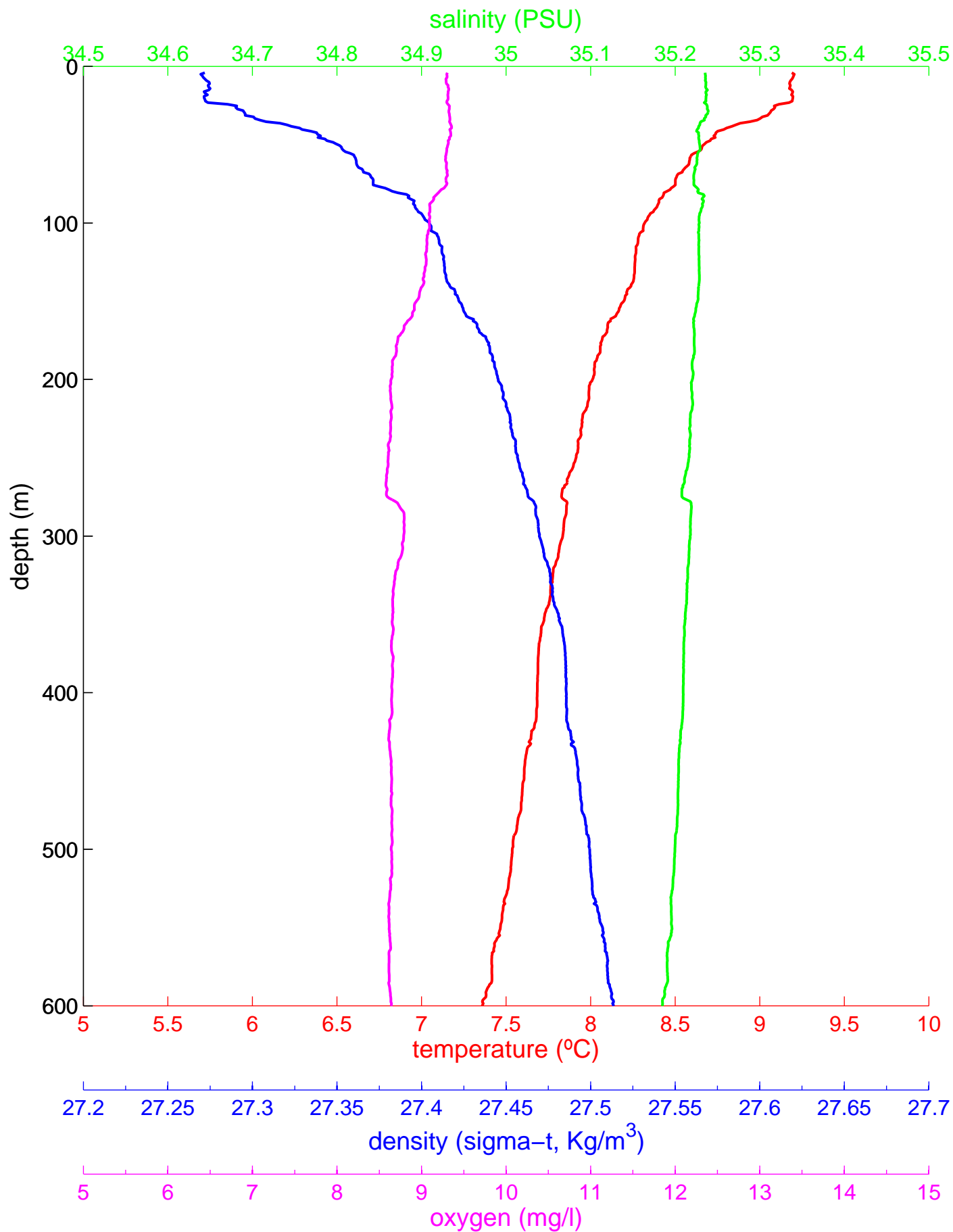
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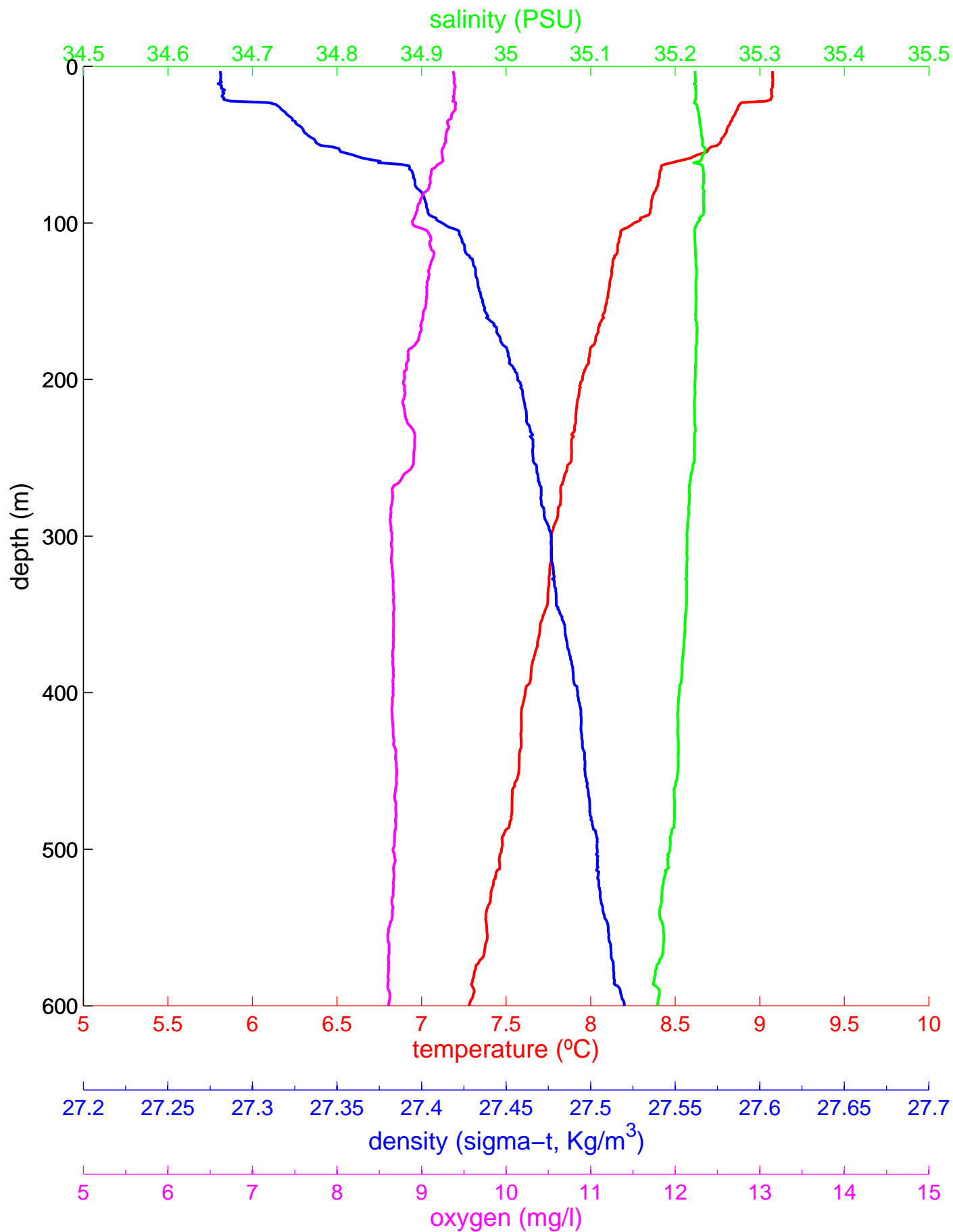
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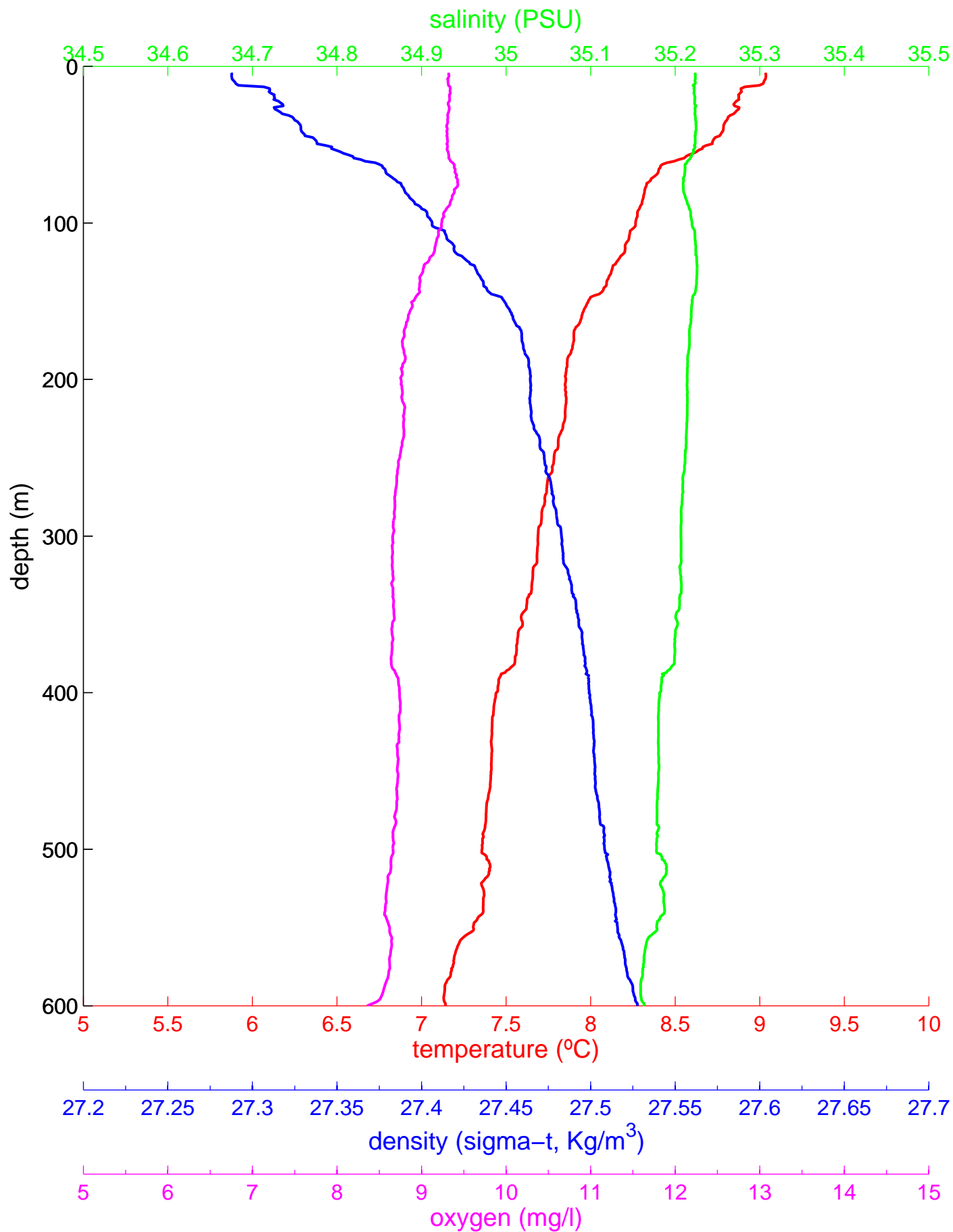
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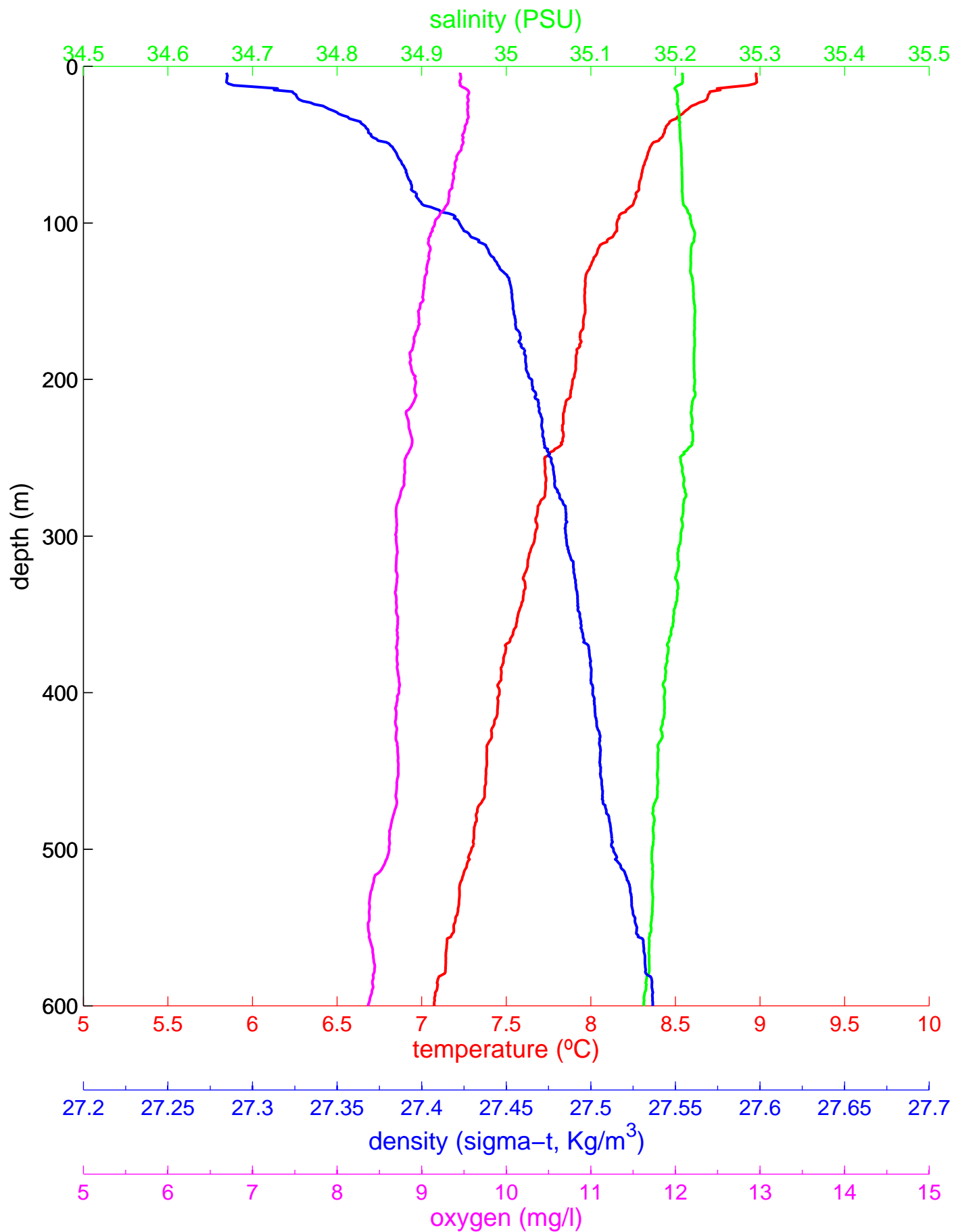
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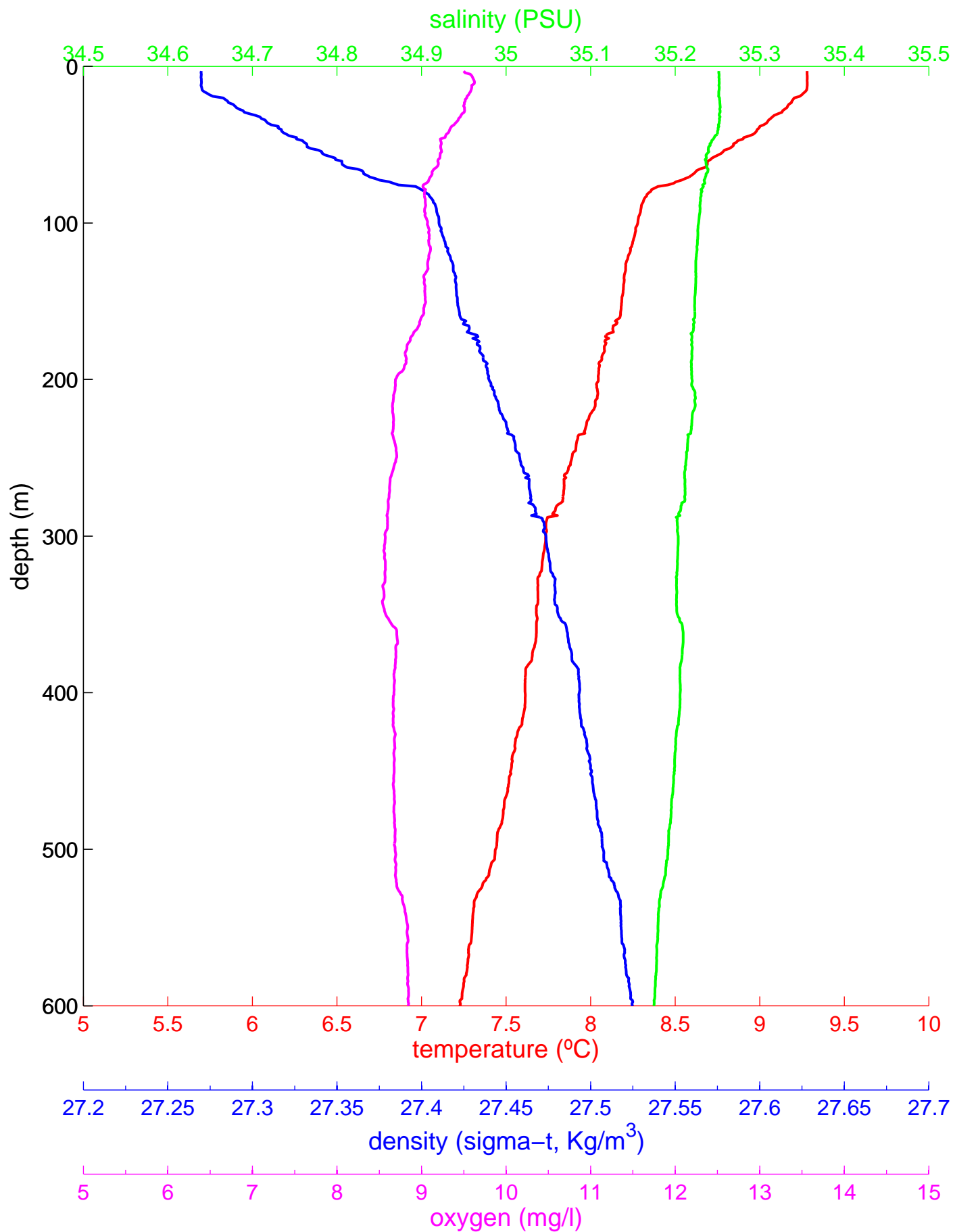


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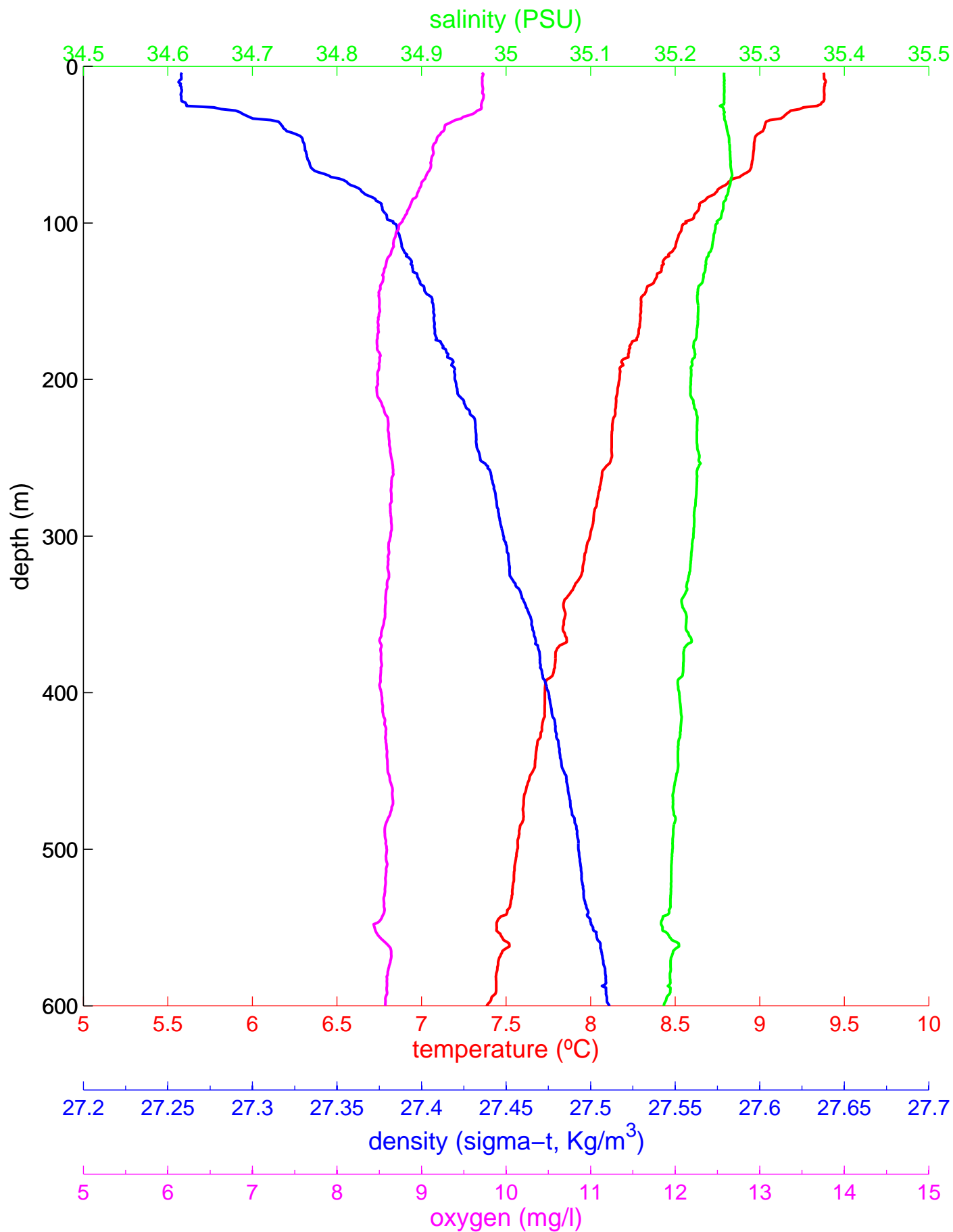




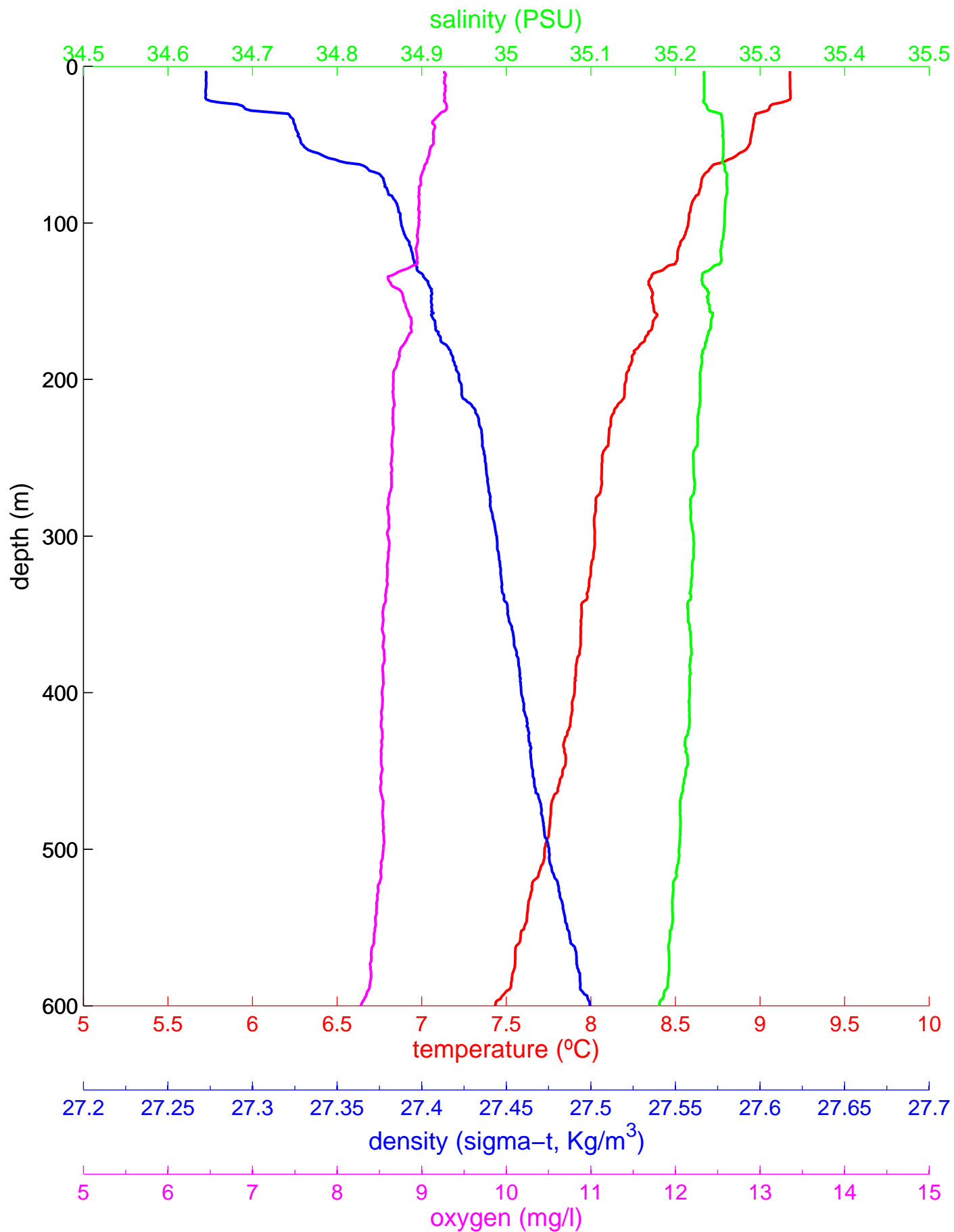
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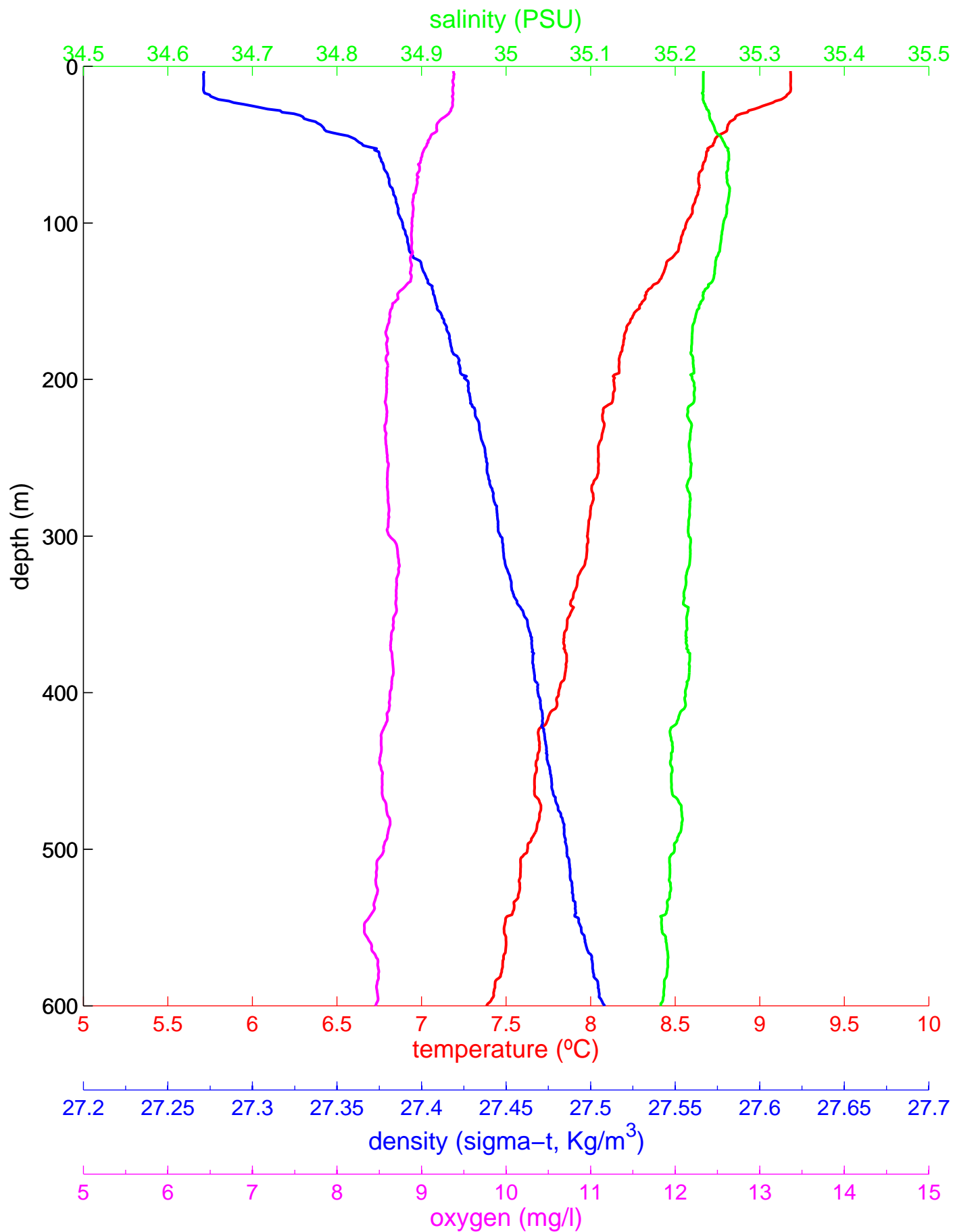
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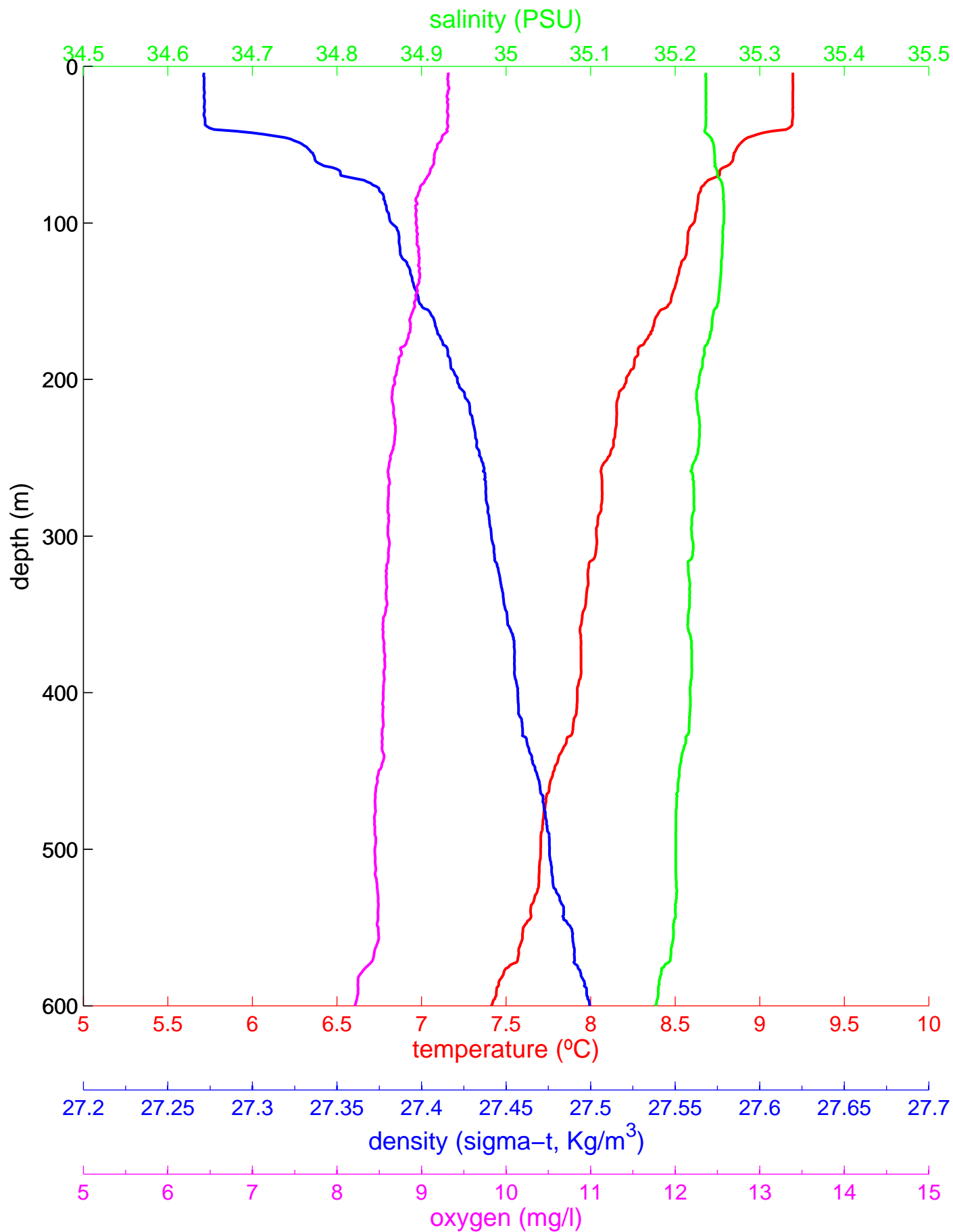
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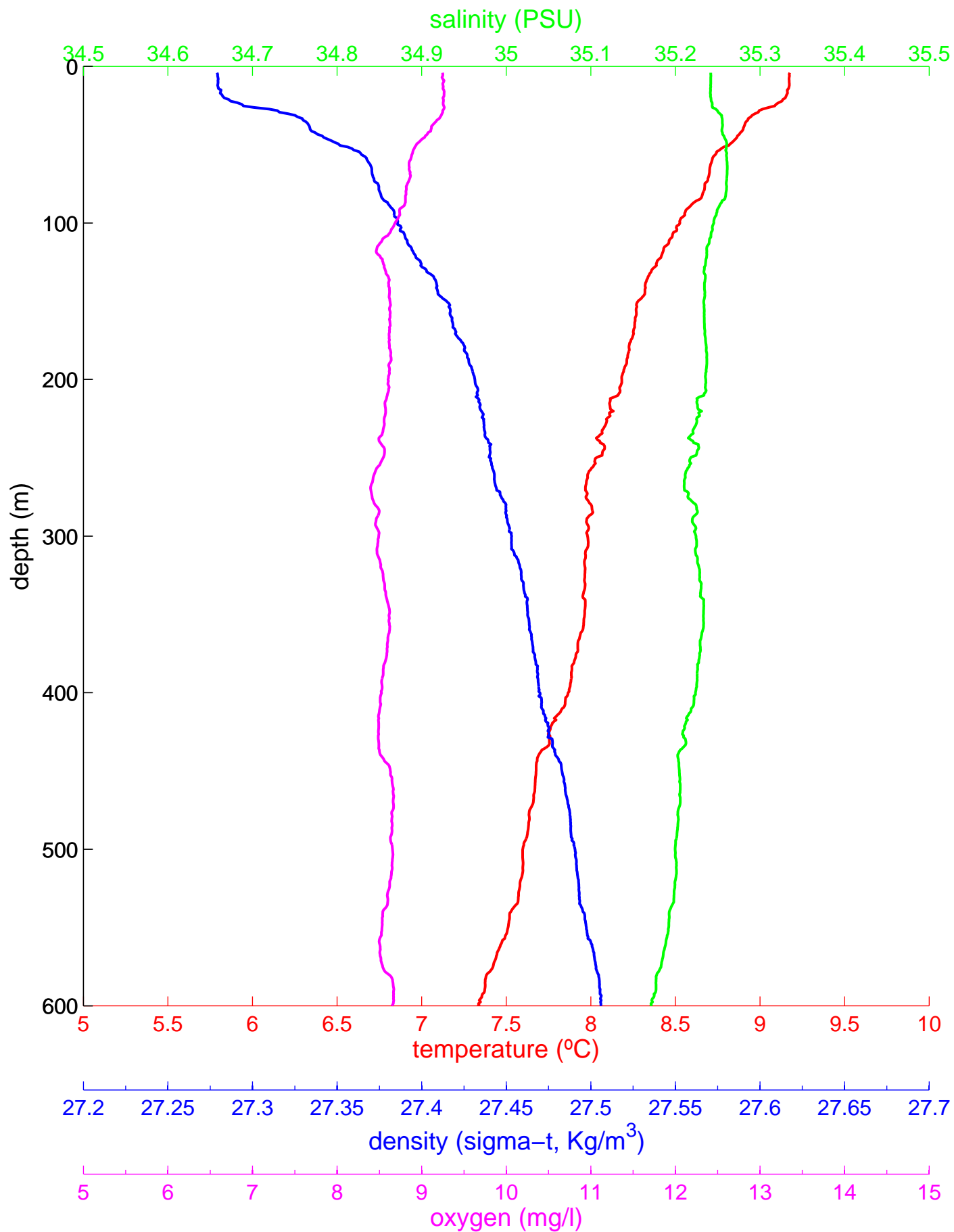
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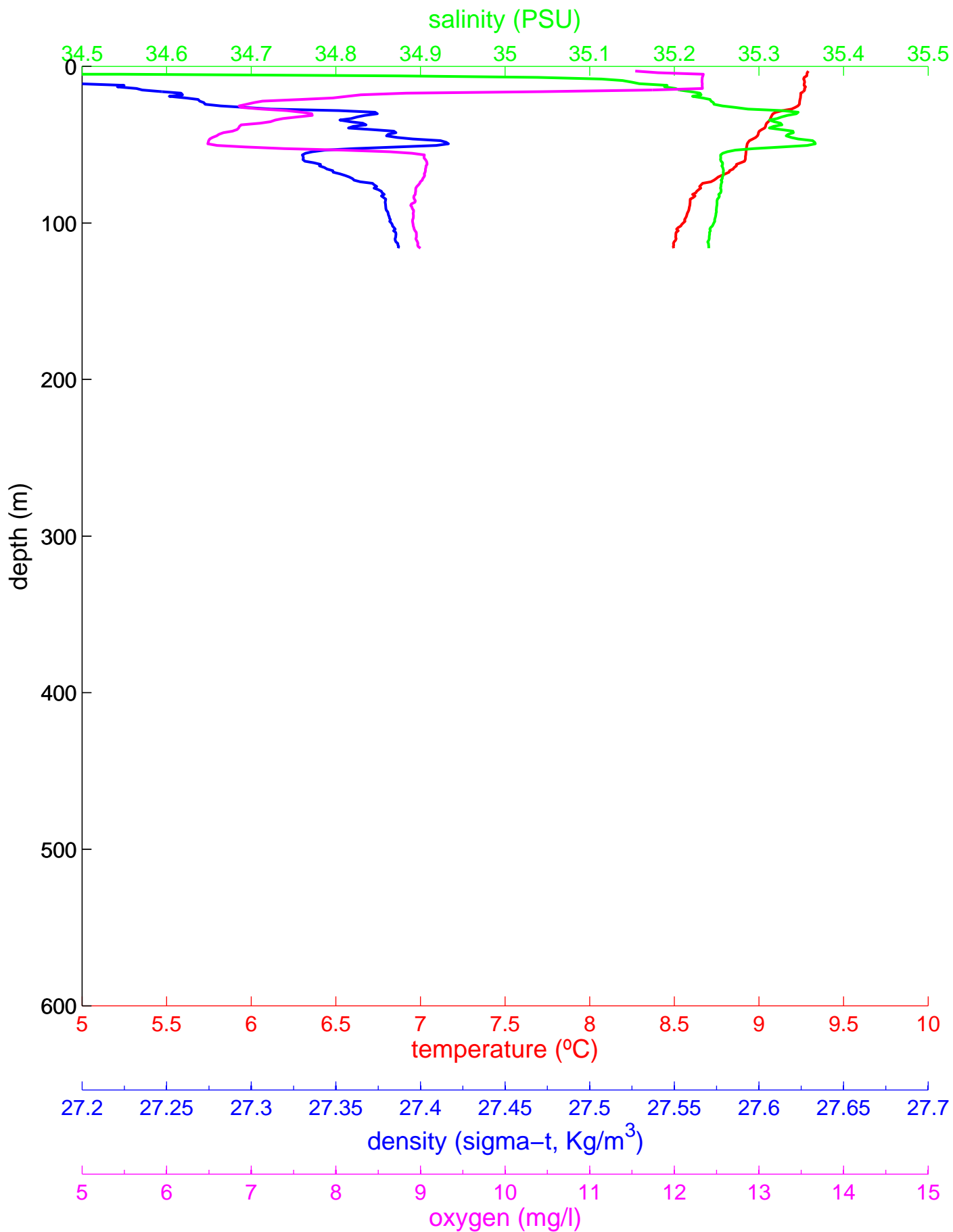
St: 60a Cast: 057 13-May-2008 08:39:57



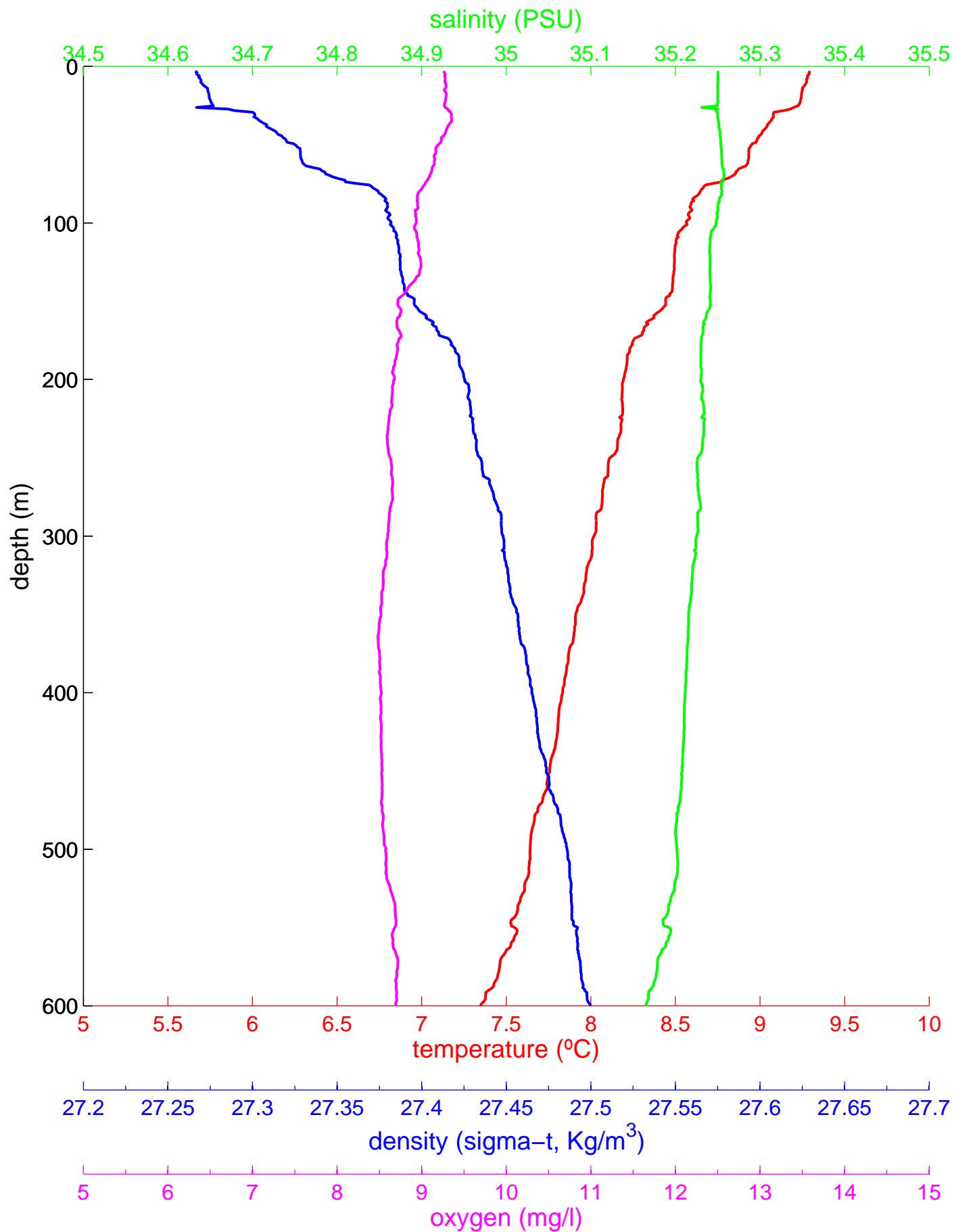
St: 61a Cast: 058 13-May-2008 10:25:53



St: 62a Cast: 059 13-May-2008 11:53:33

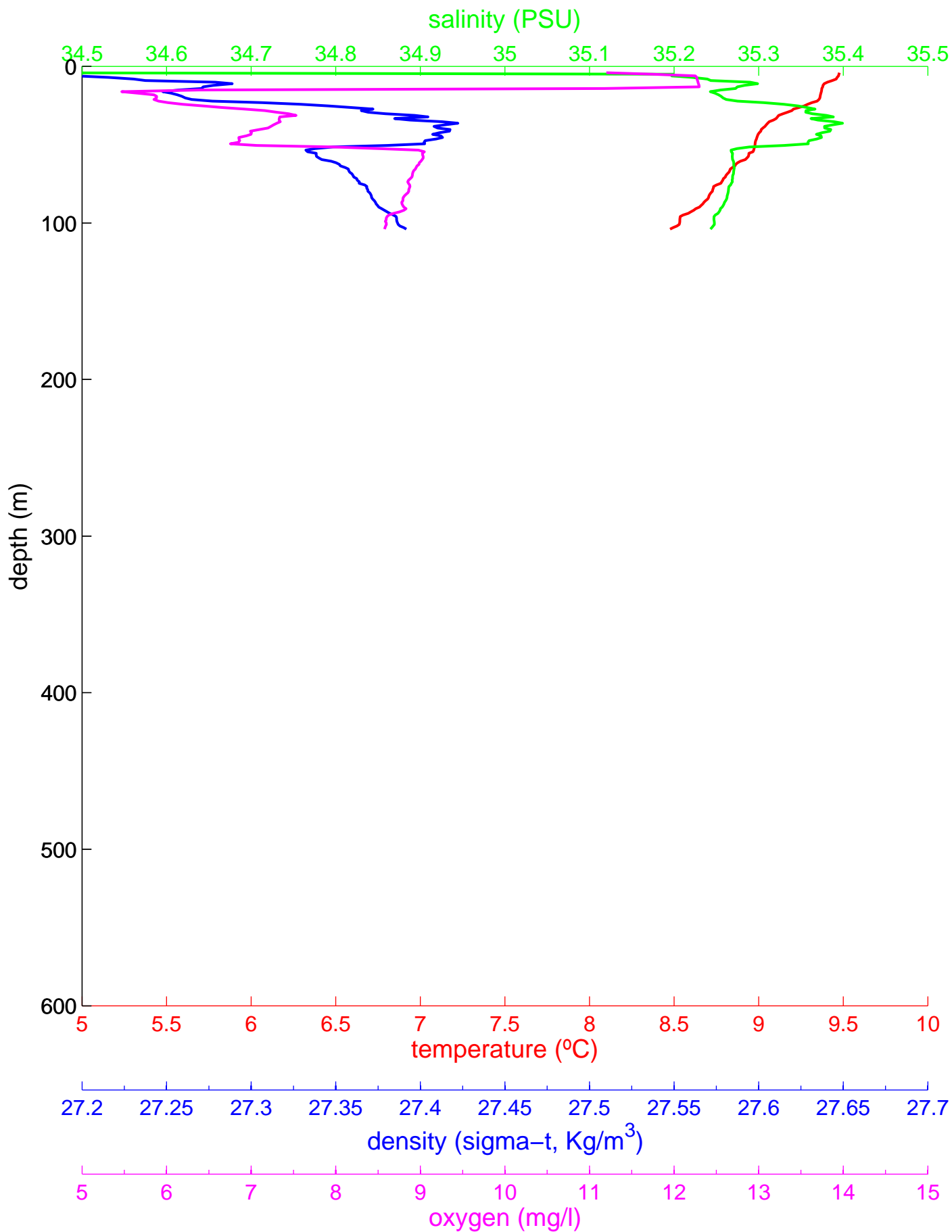


St: 62b Cast: 060 13-May-2008 12:03:38

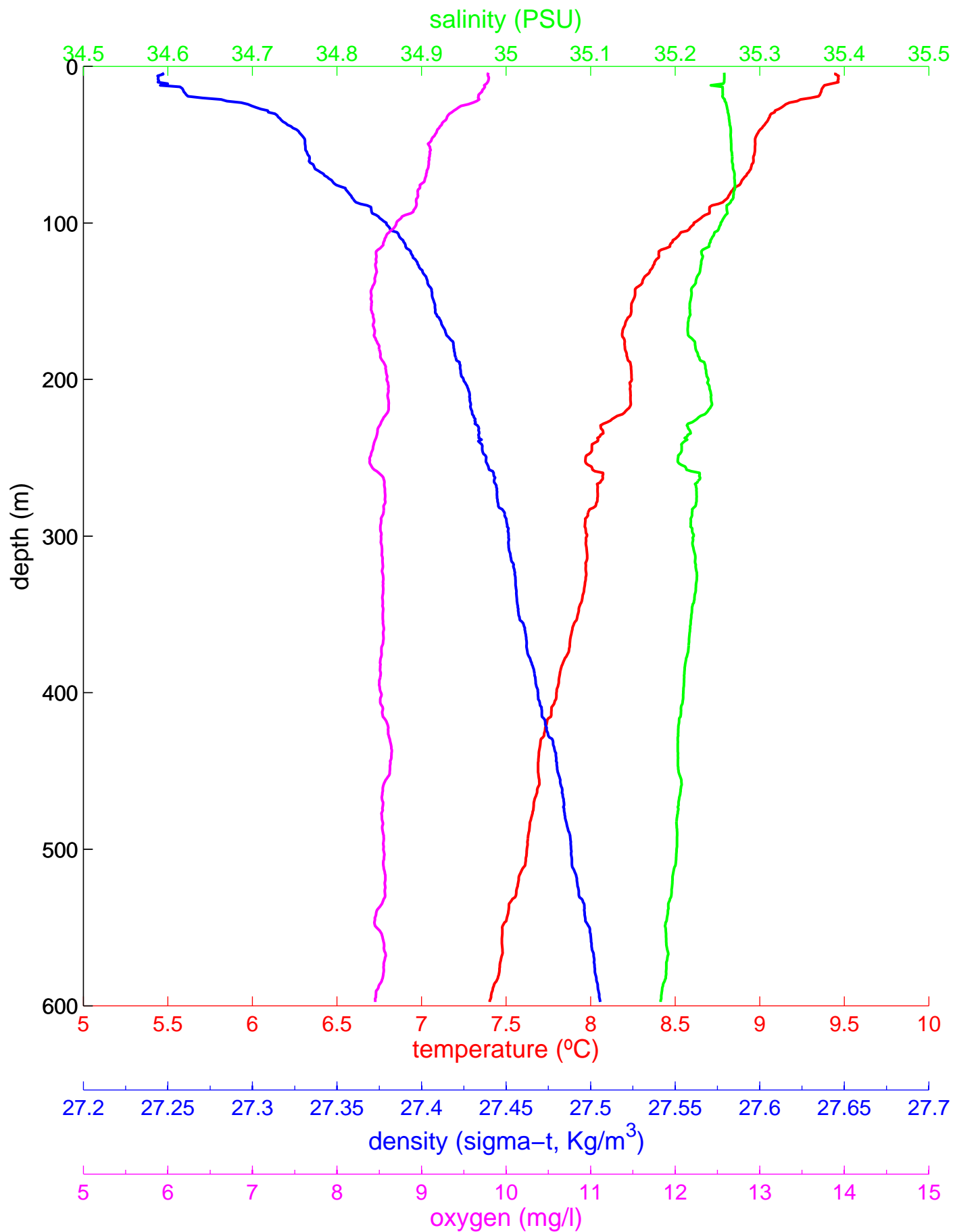




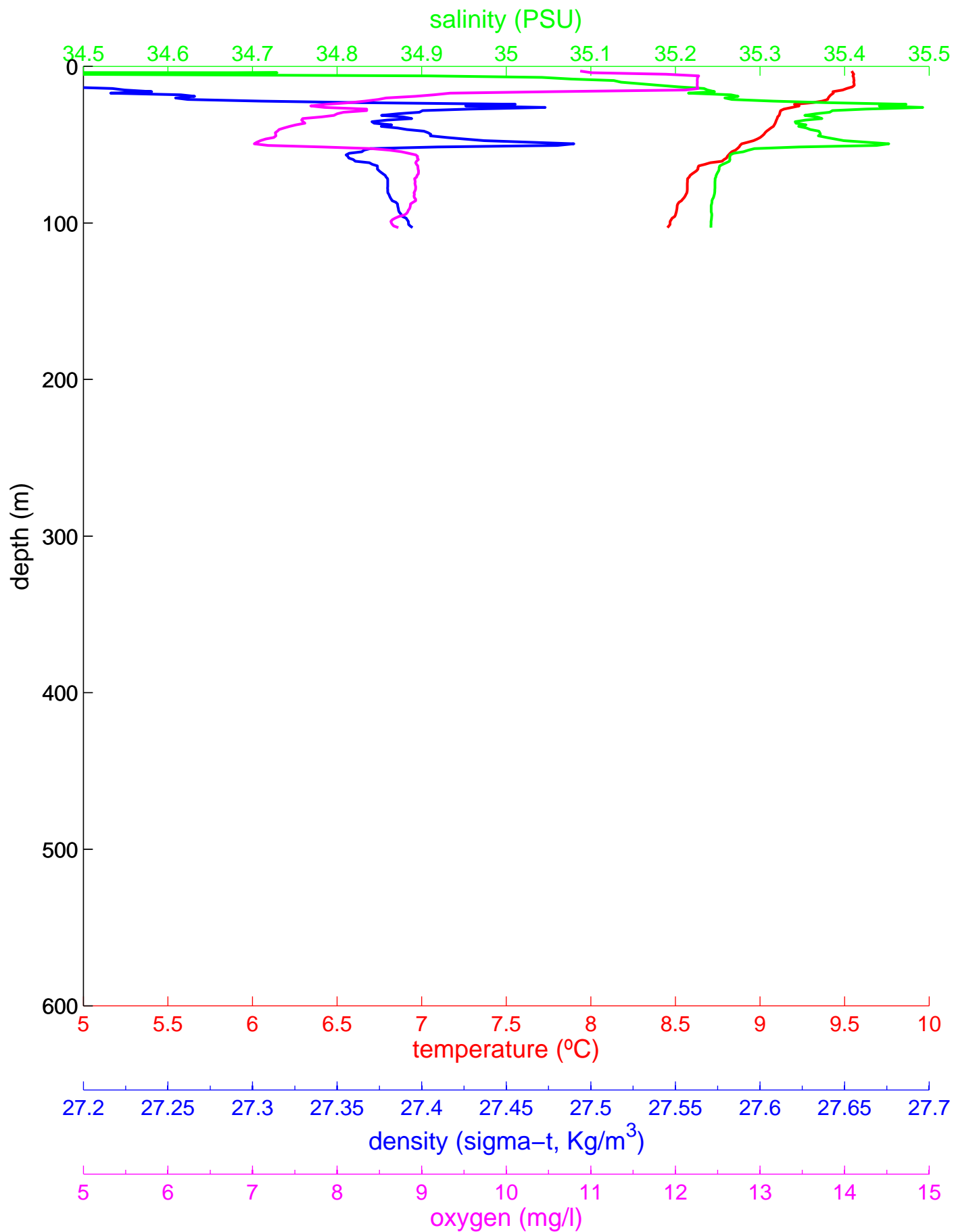
St: 63a Cast: 061 13-May-2008 13:35:56



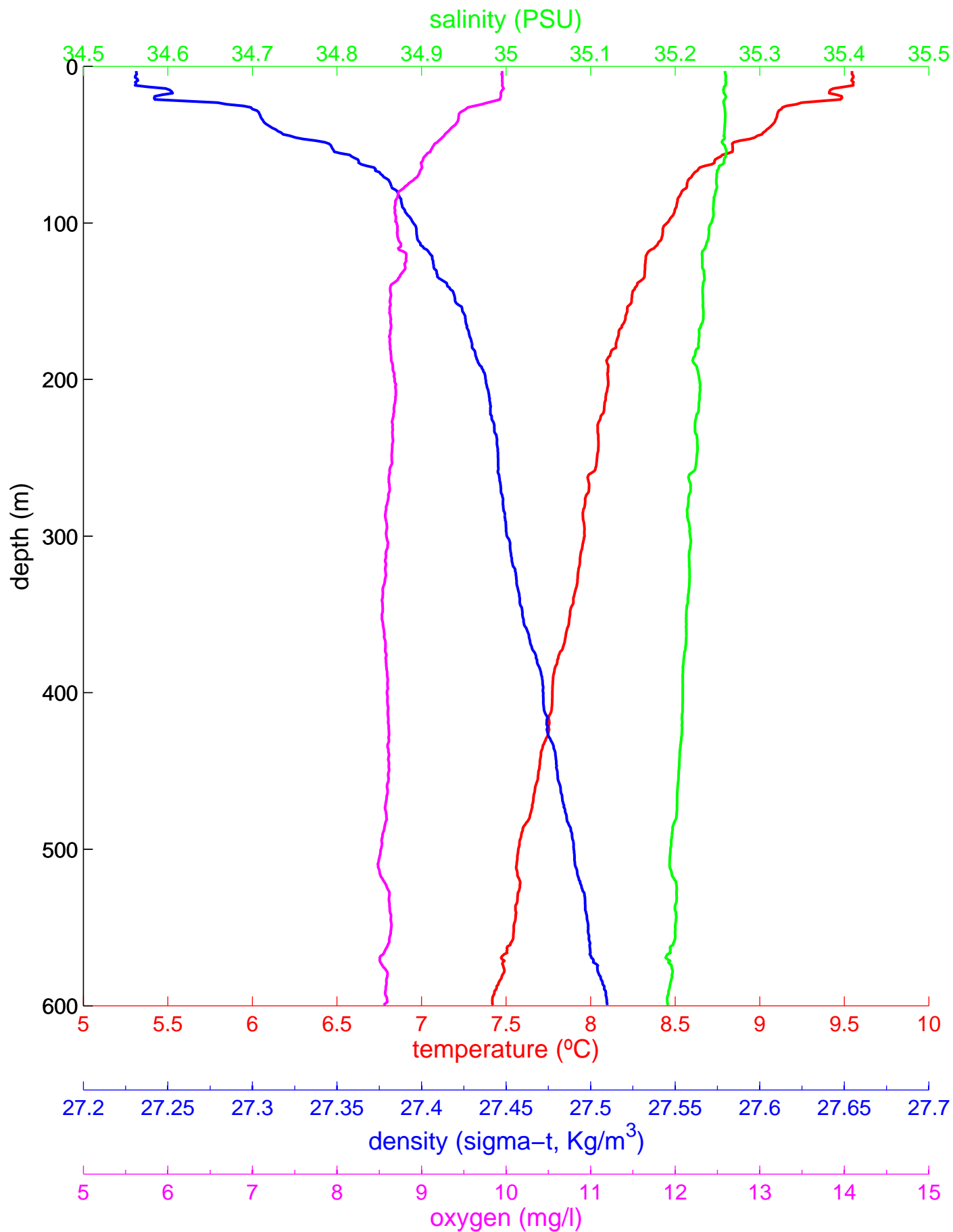
St: 63b Cast: 062 13-May-2008 13:51:51



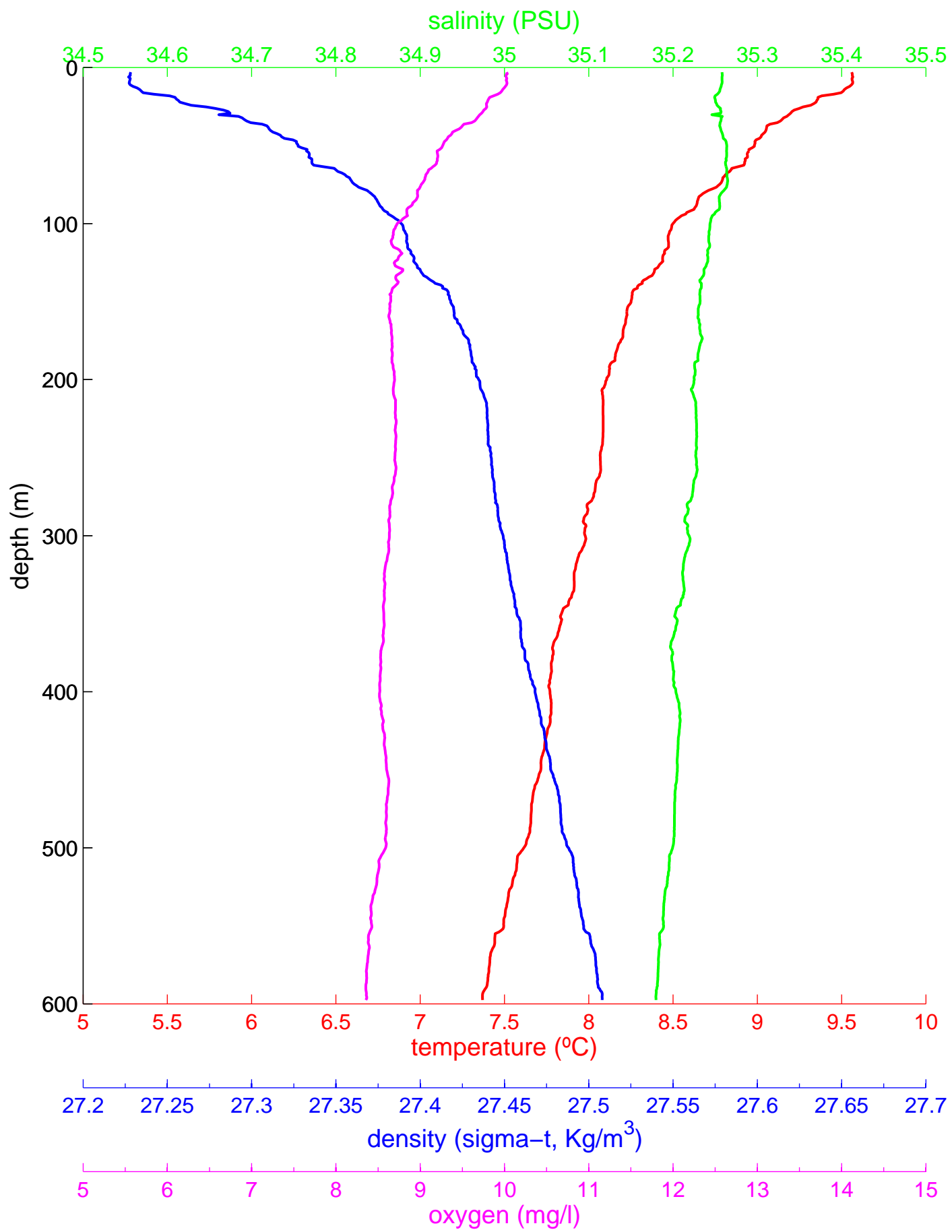
St: 64a Cast: 063 13-May-2008 15:53:16



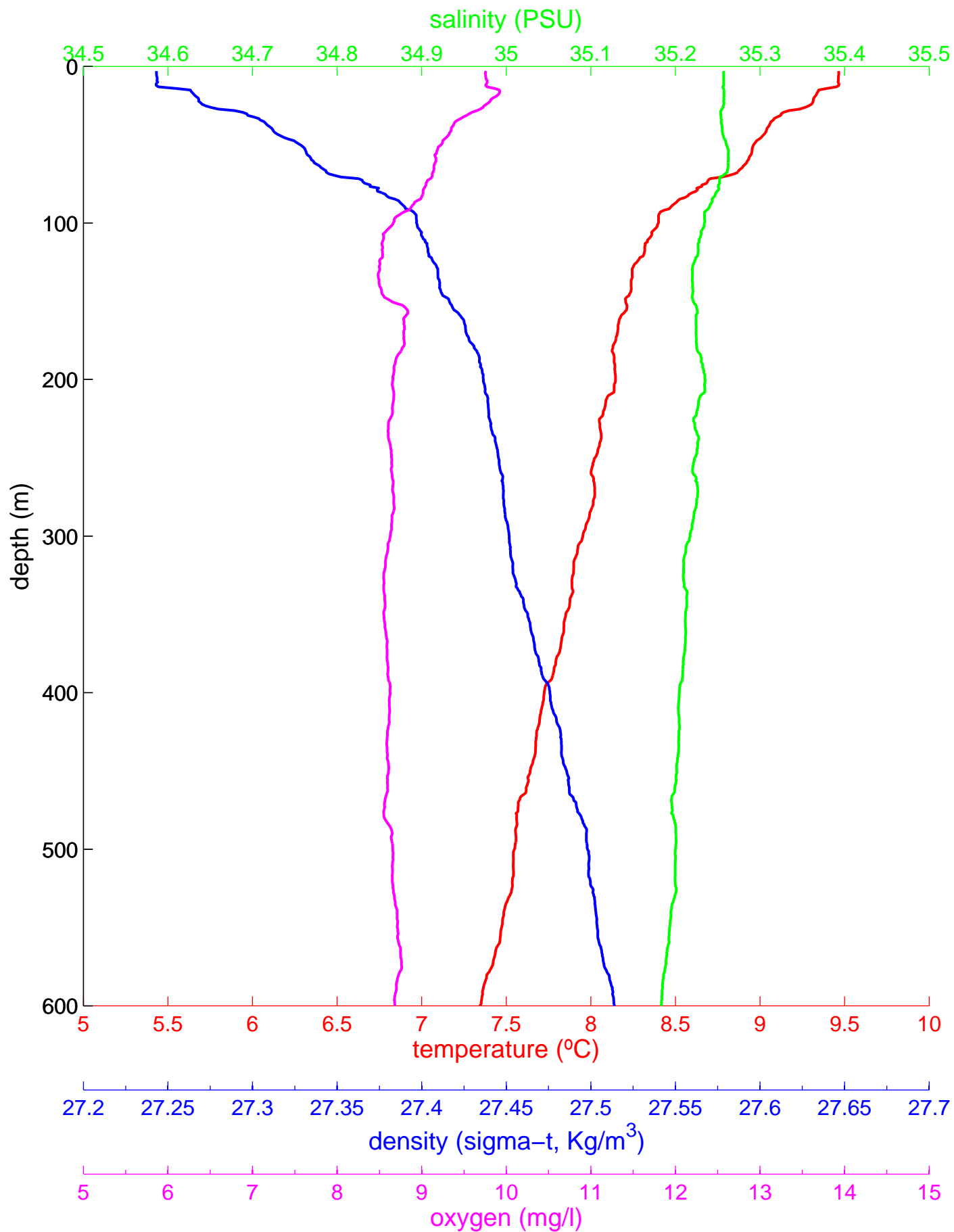
St: 64b Cast: 064 13-May-2008 16:02:07



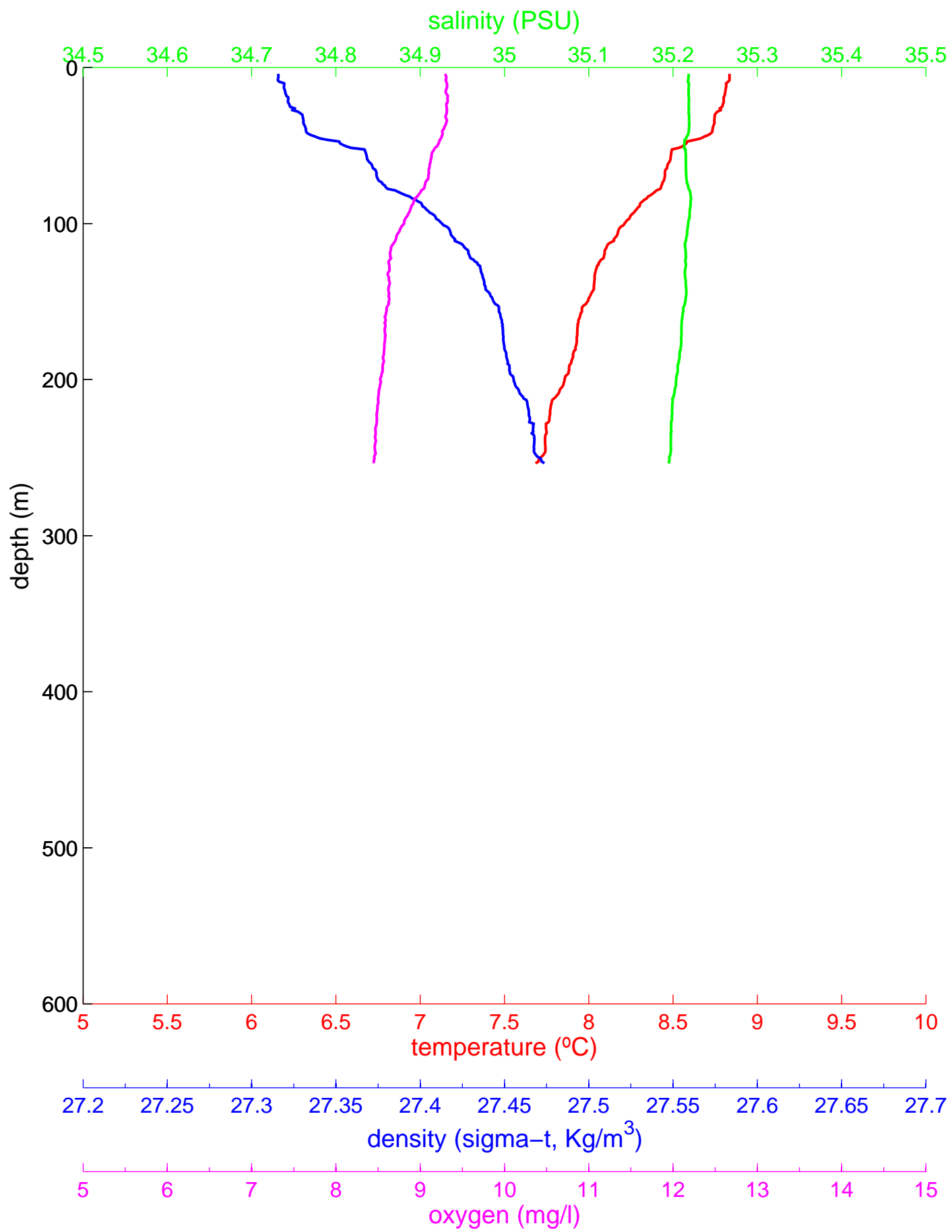
St: 70a Cast: 065 13-May-2008 19:16:23



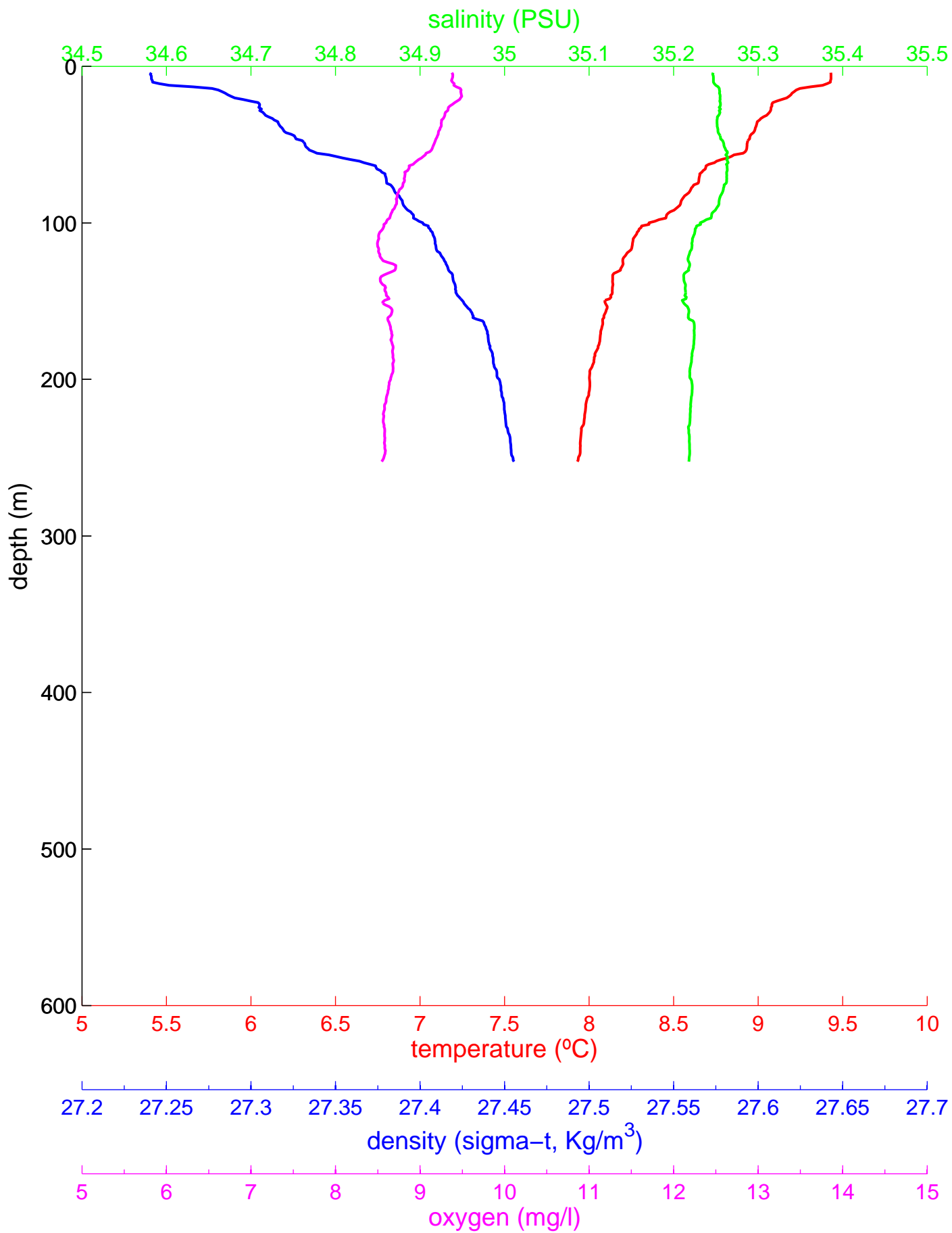
St: 71a Cast: 066 13-May-2008 20:47:38



St: 74a Cast: 067 14-May-2008 02:06:53

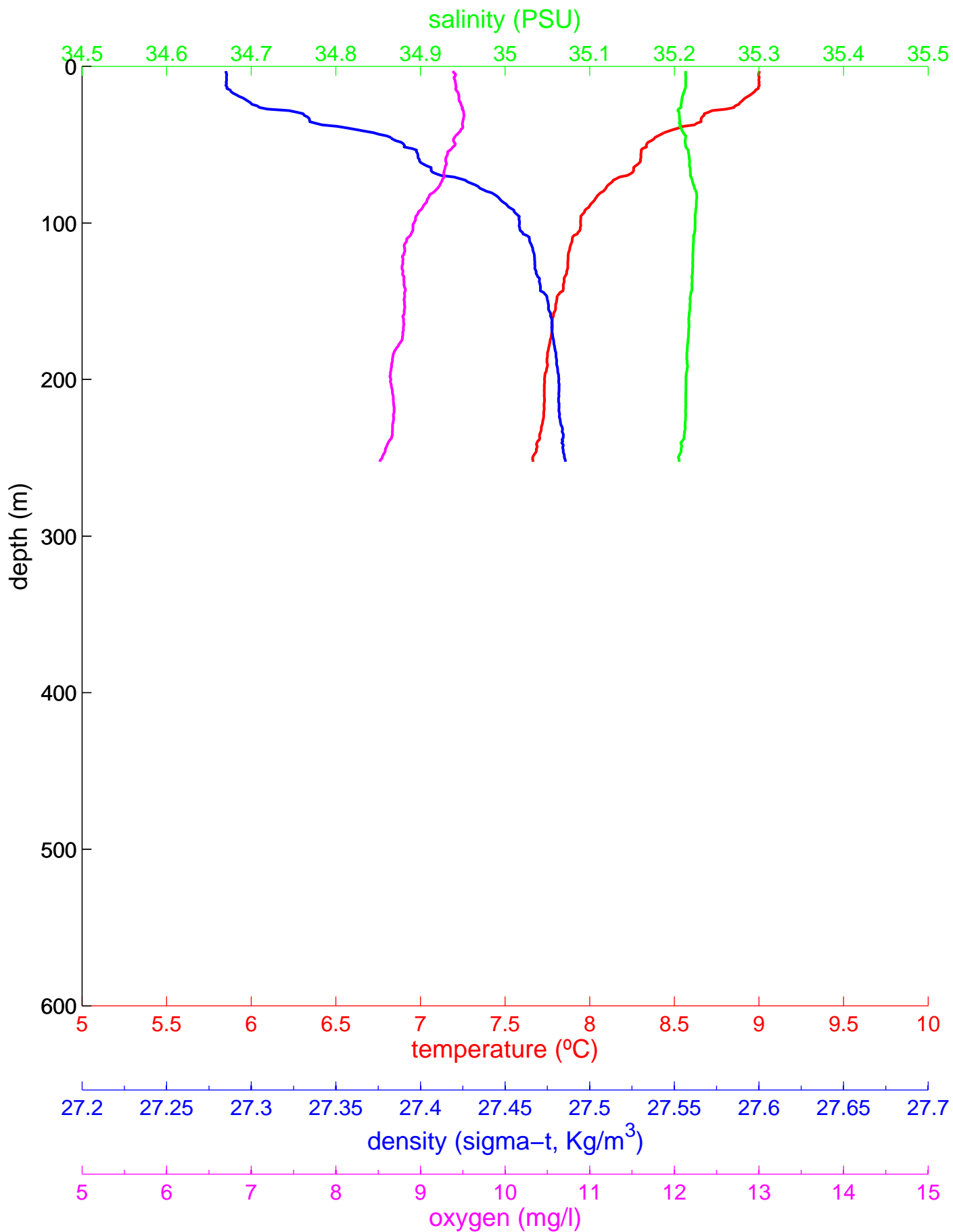


St: 75a Cast: 068 14-May-2008 03:50:13

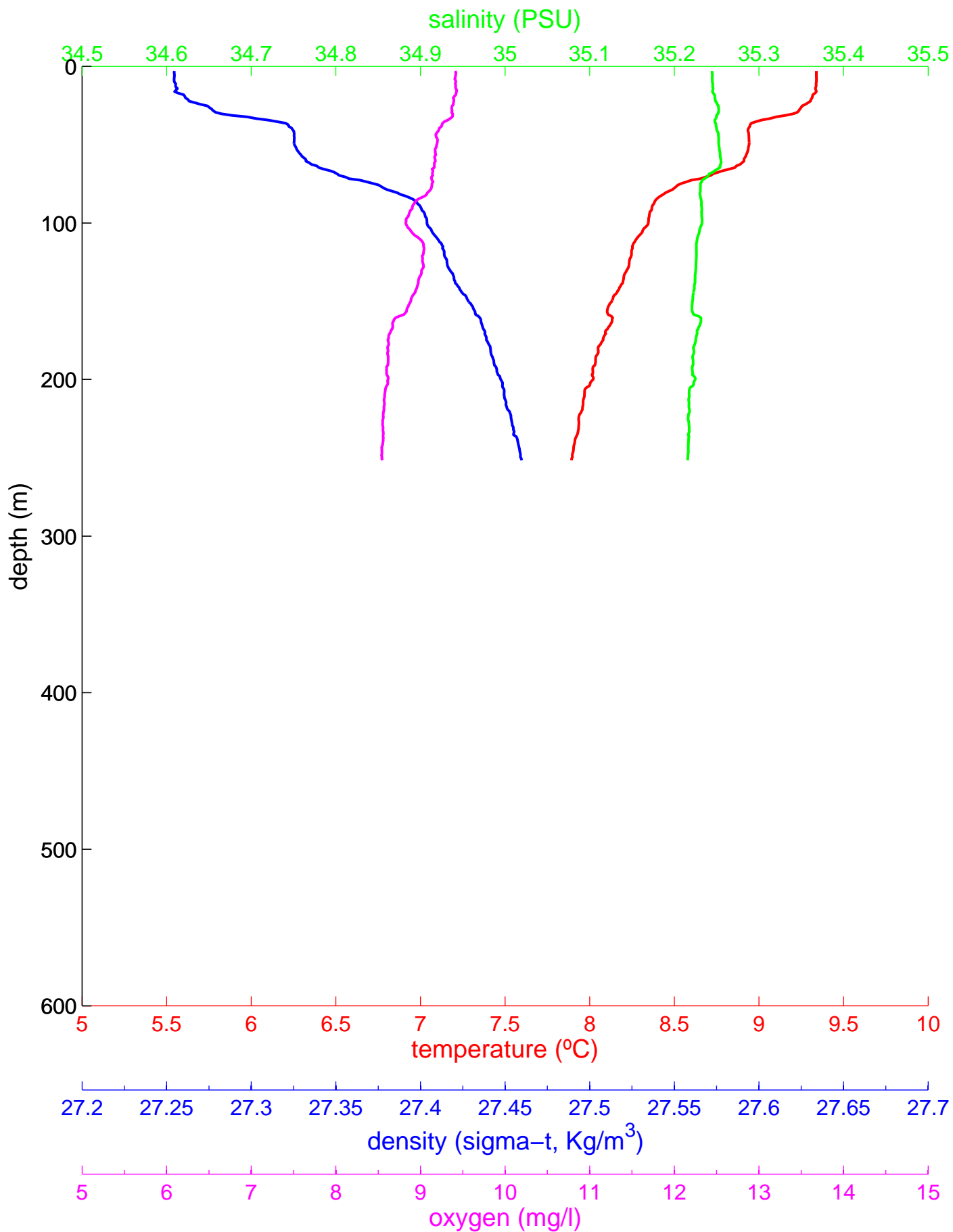




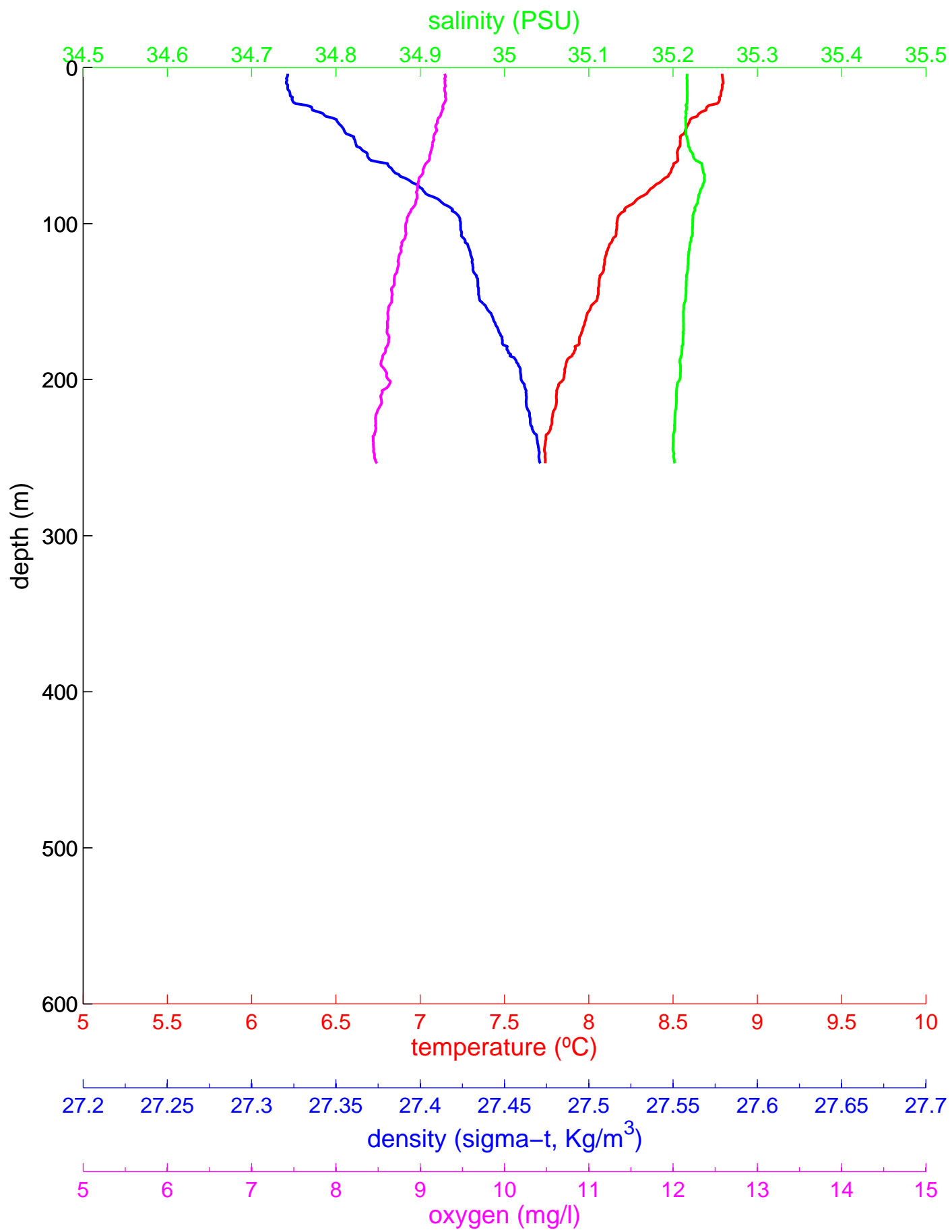
St: 76a Cast: 069 14-May-2008 05:47:20



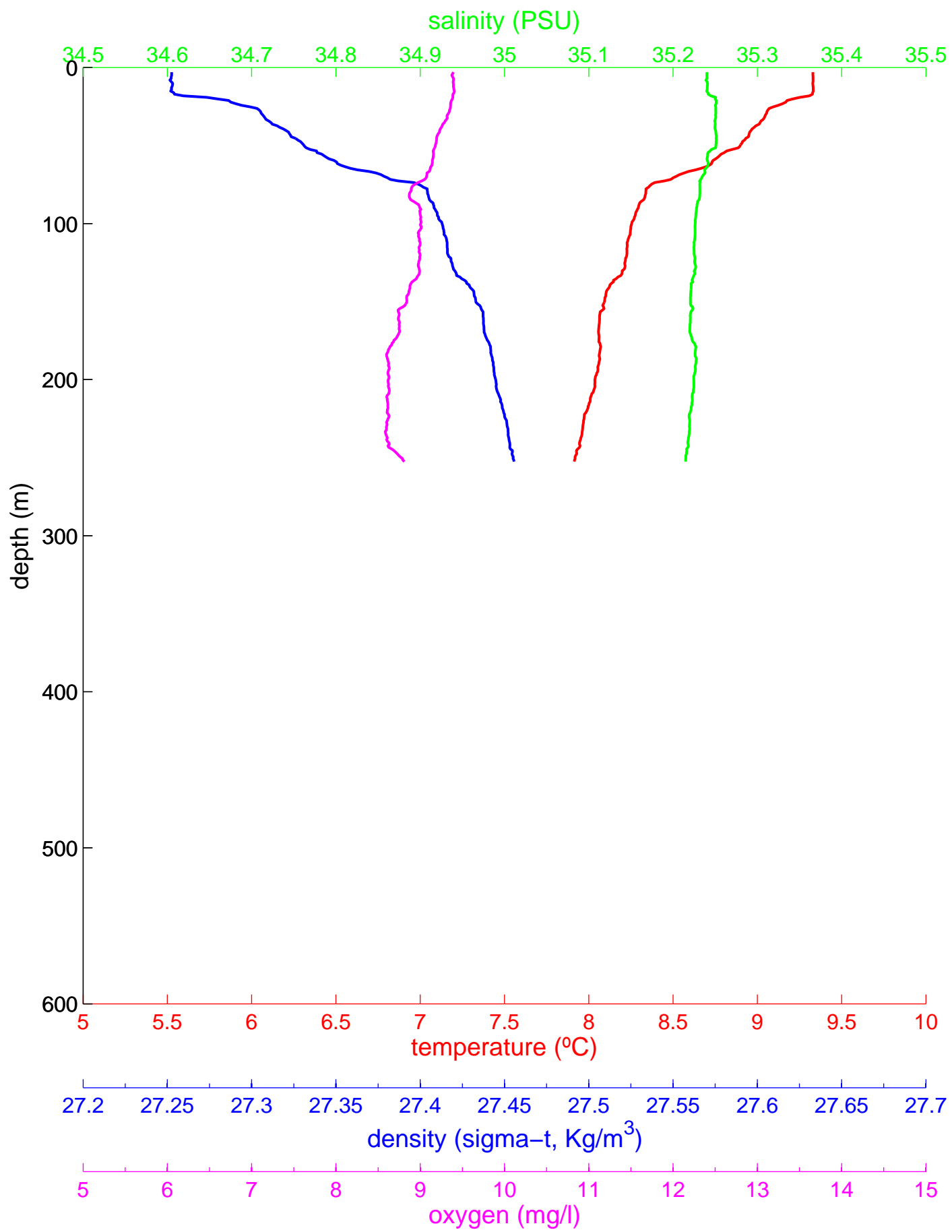
St: 77a Cast: 070 14-May-2008 07:26:50



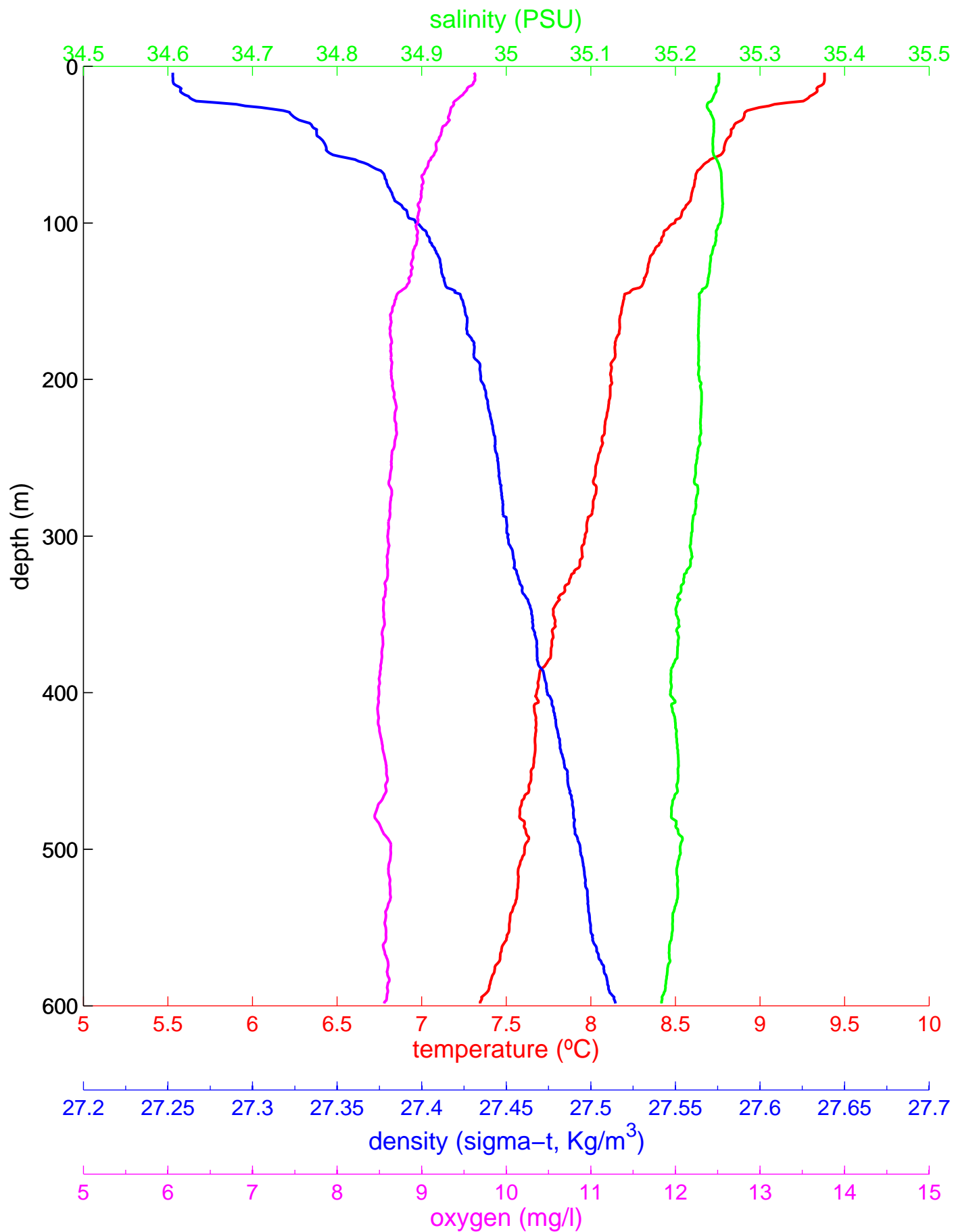
St: 78a Cast: 071 14-May-2008 09:18:45



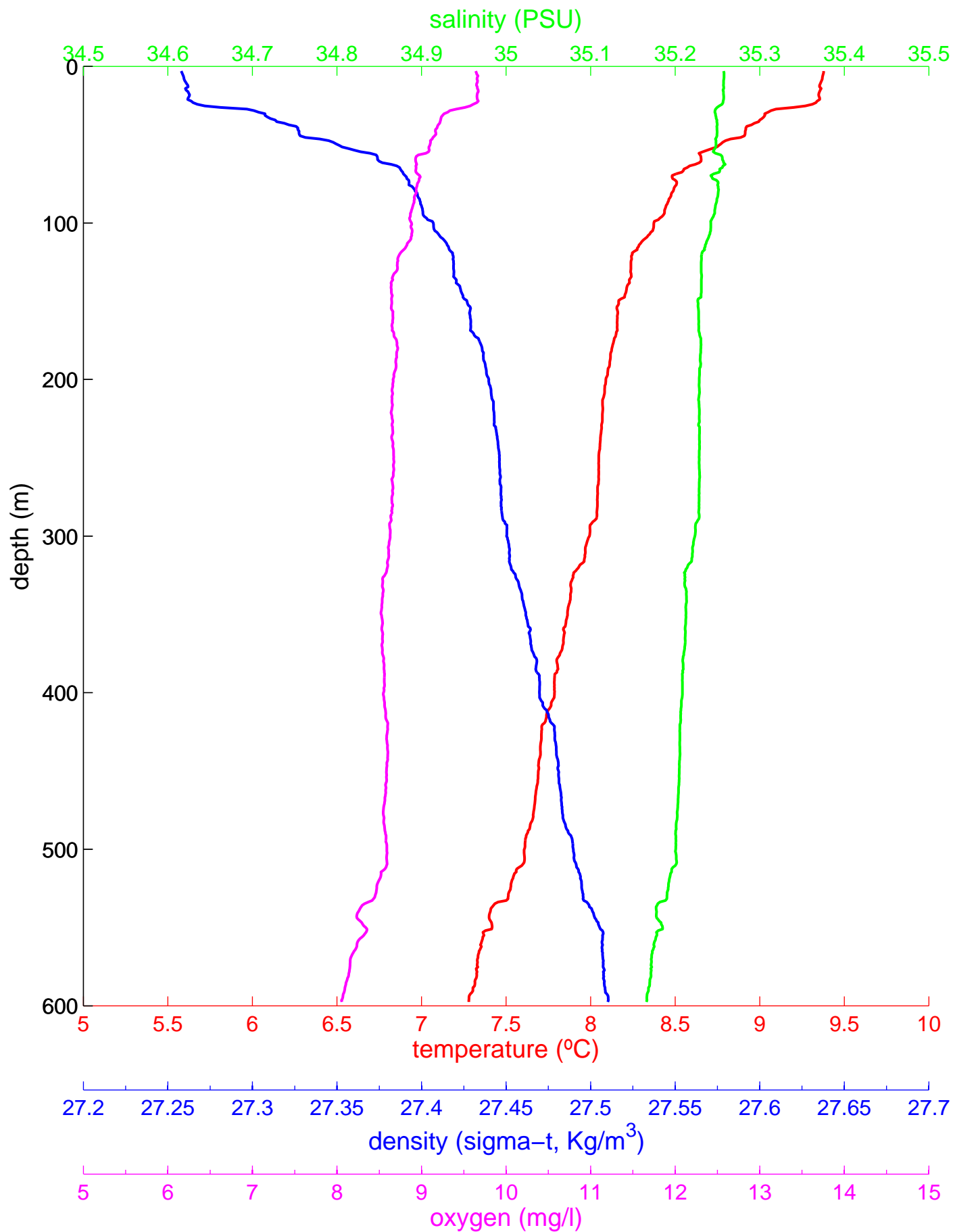
St: 79a Cast: 072 14-May-2008 11:11:14



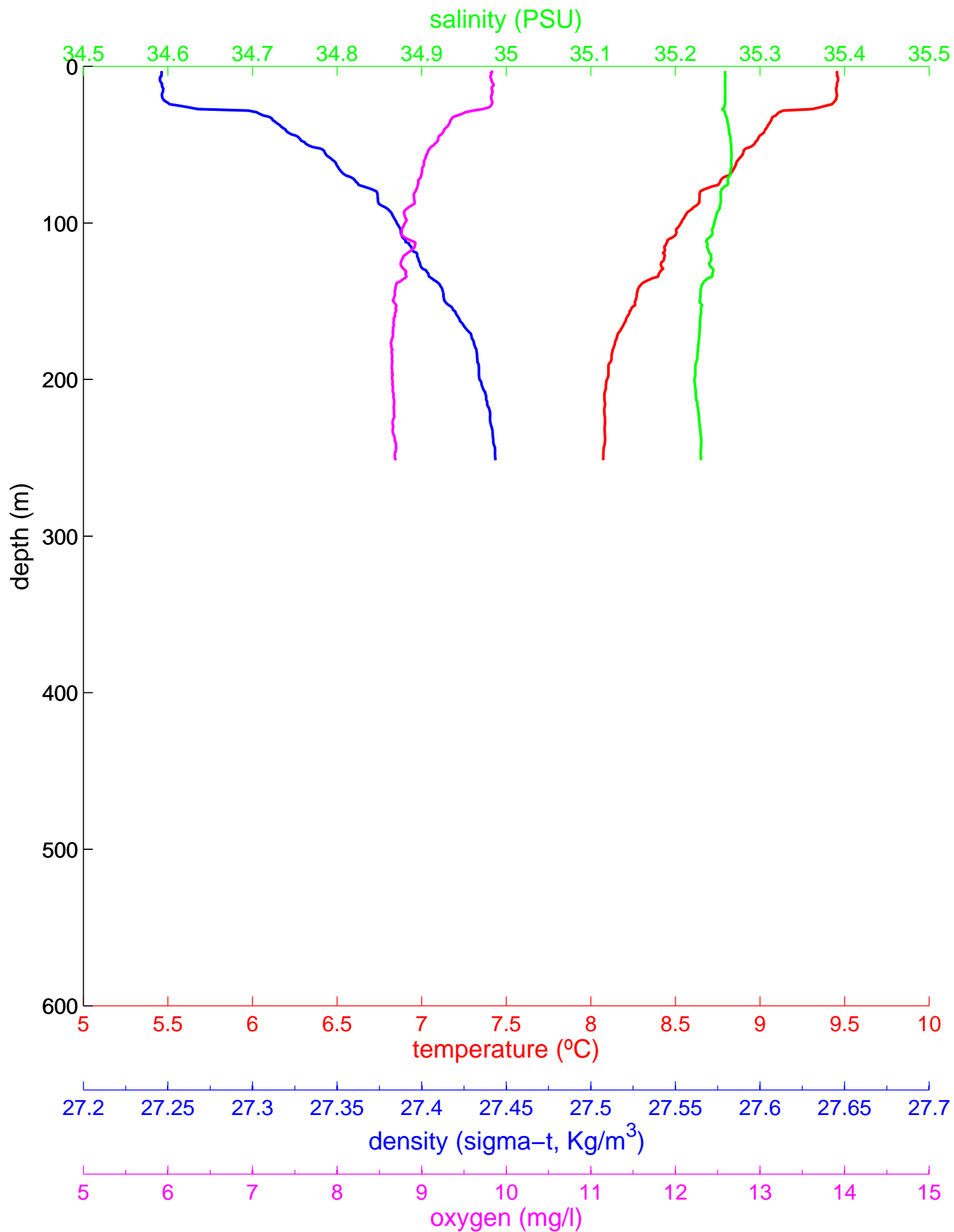
St: 80a Cast: 073 14-May-2008 12:53:16



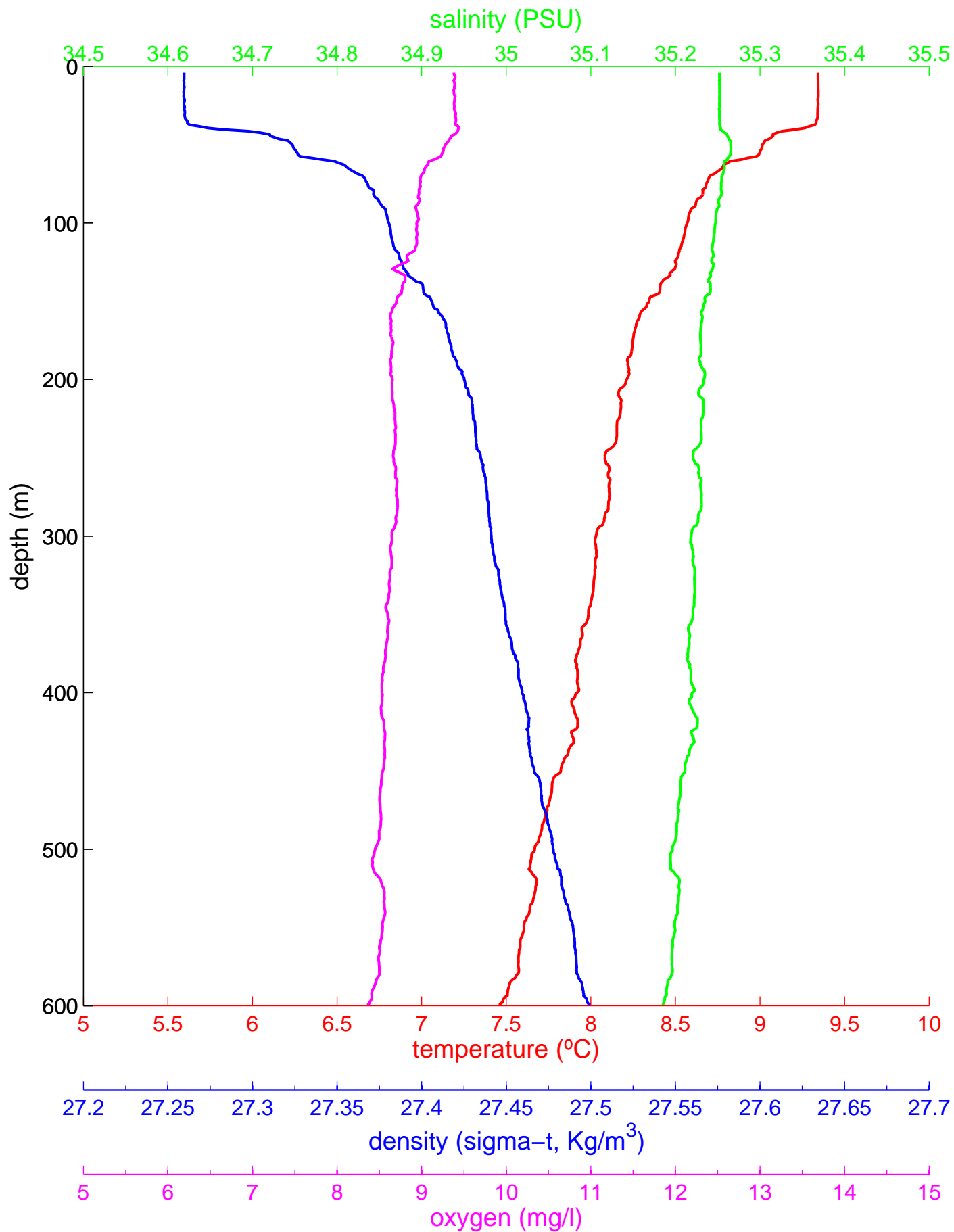
St: 81a Cast: 074 14-May-2008 18:06:47



St: 82a Cast: 075 14-May-2008 19:17:08

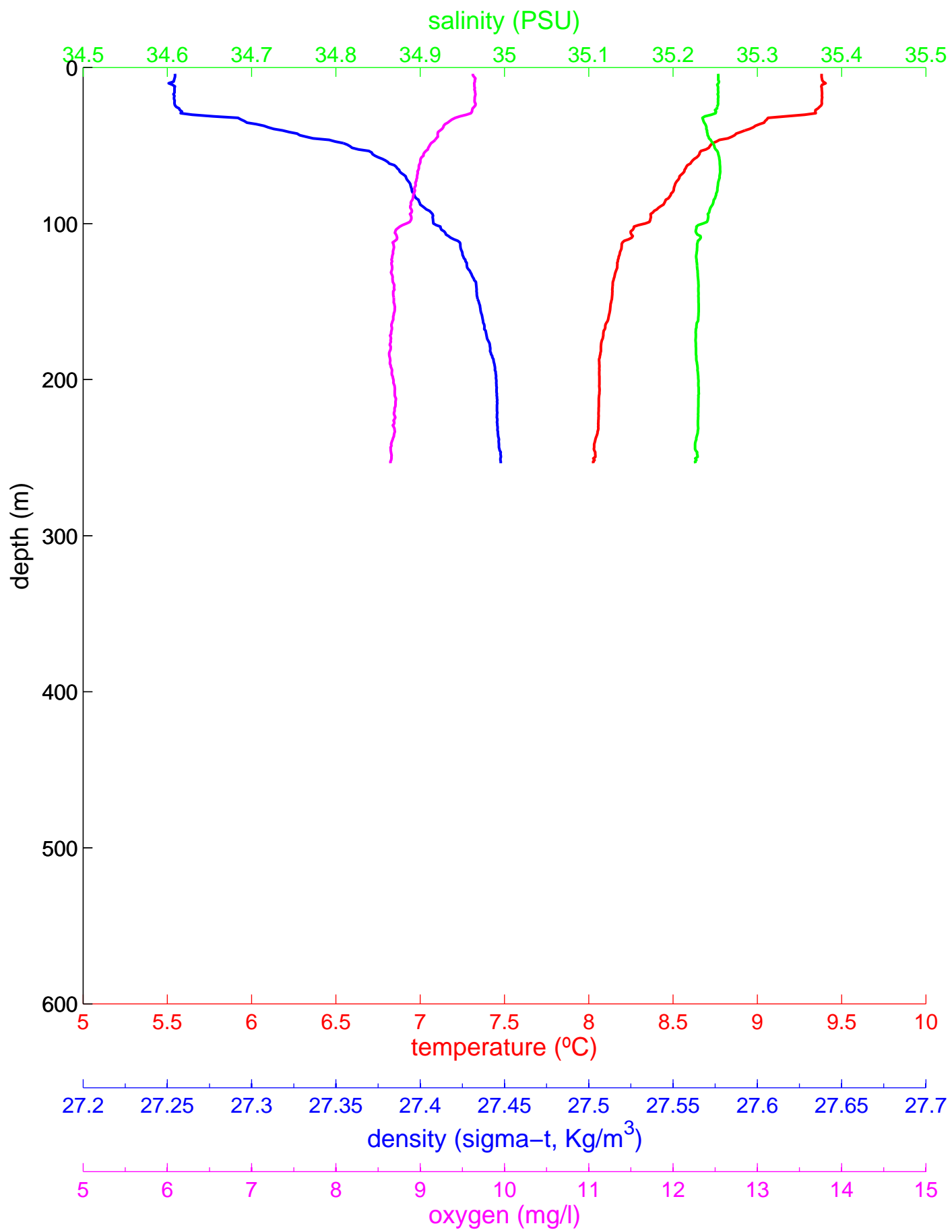


St: 83a Cast: 076 14-May-2008 20:29:22

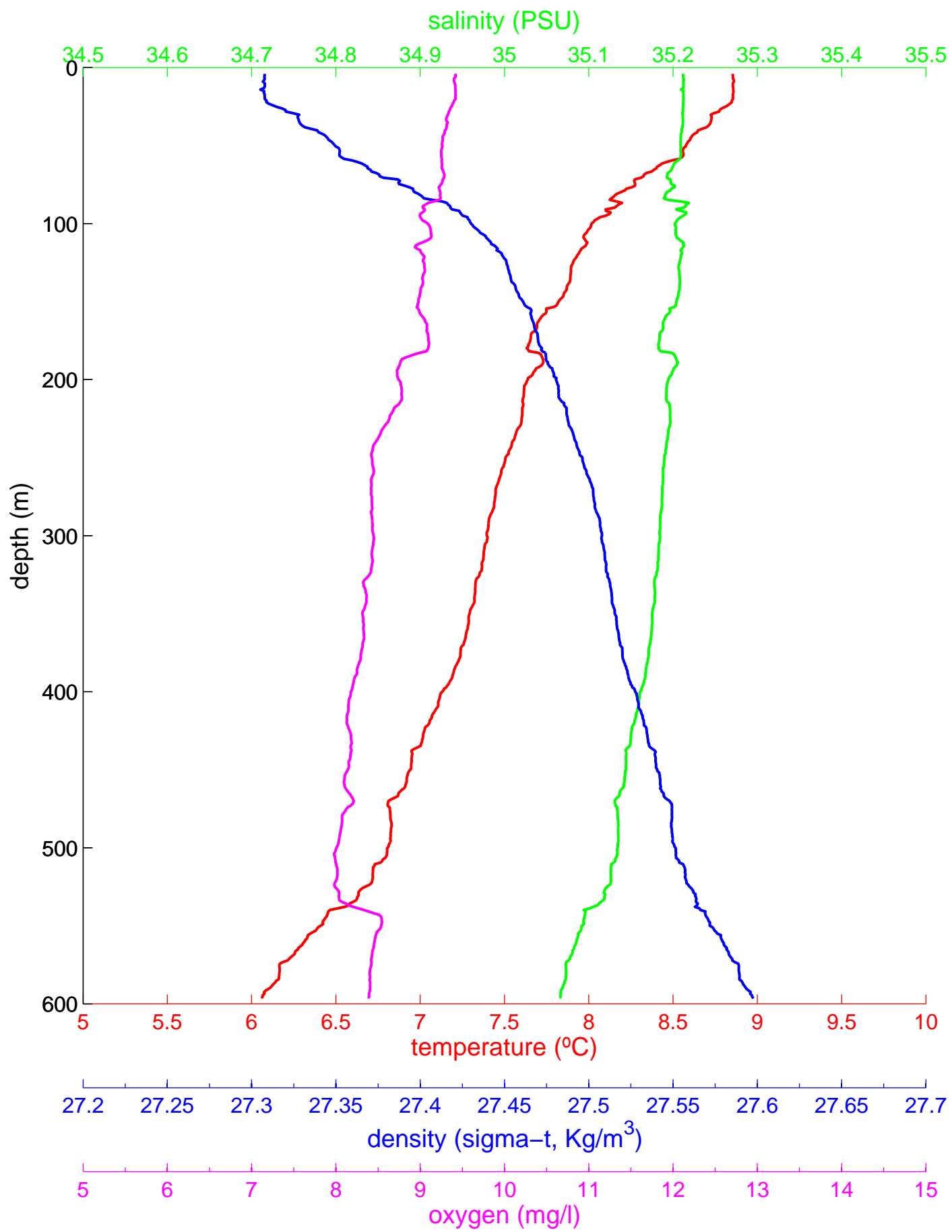




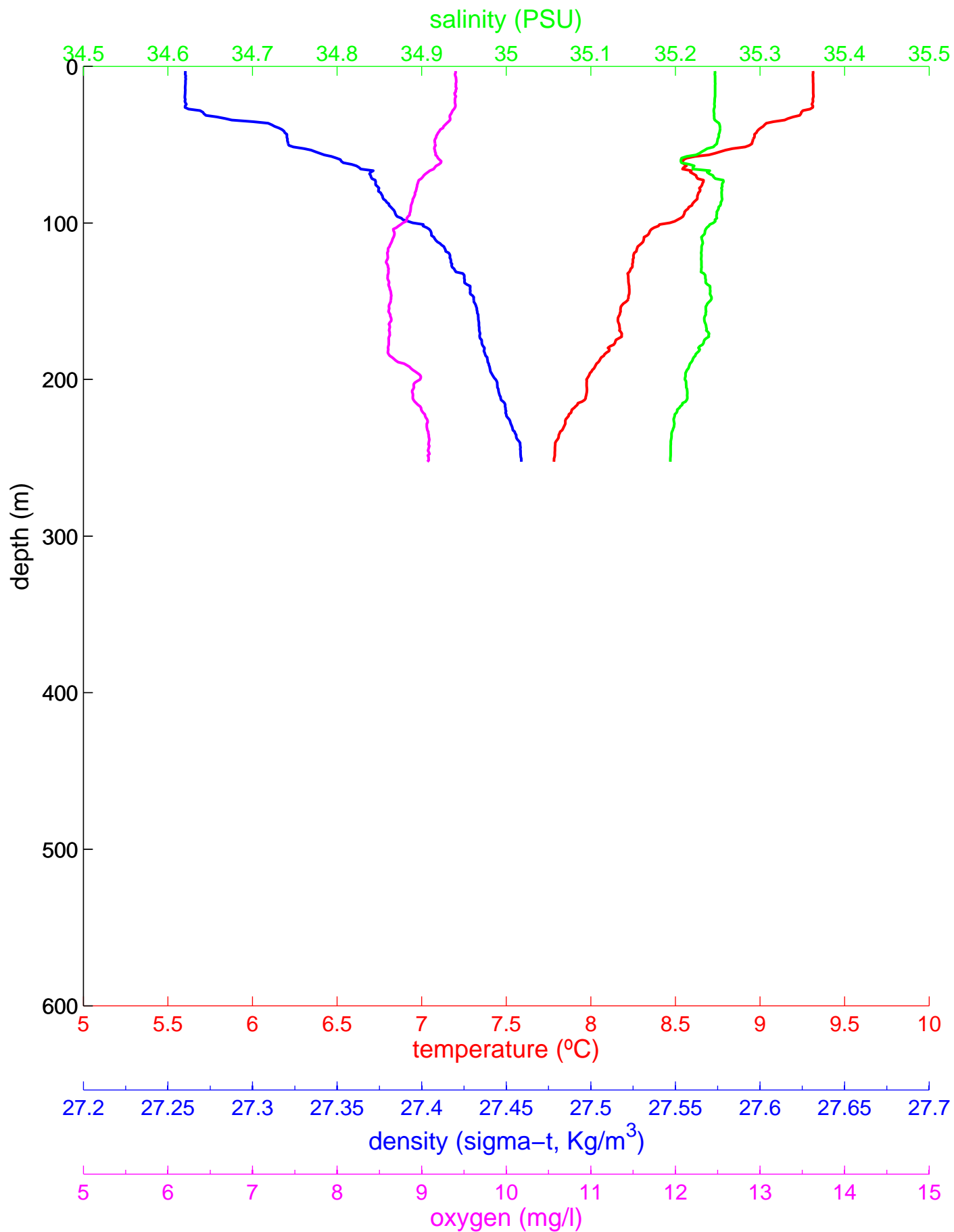
St: 84a Cast: 077 14-May-2008 22:04:42



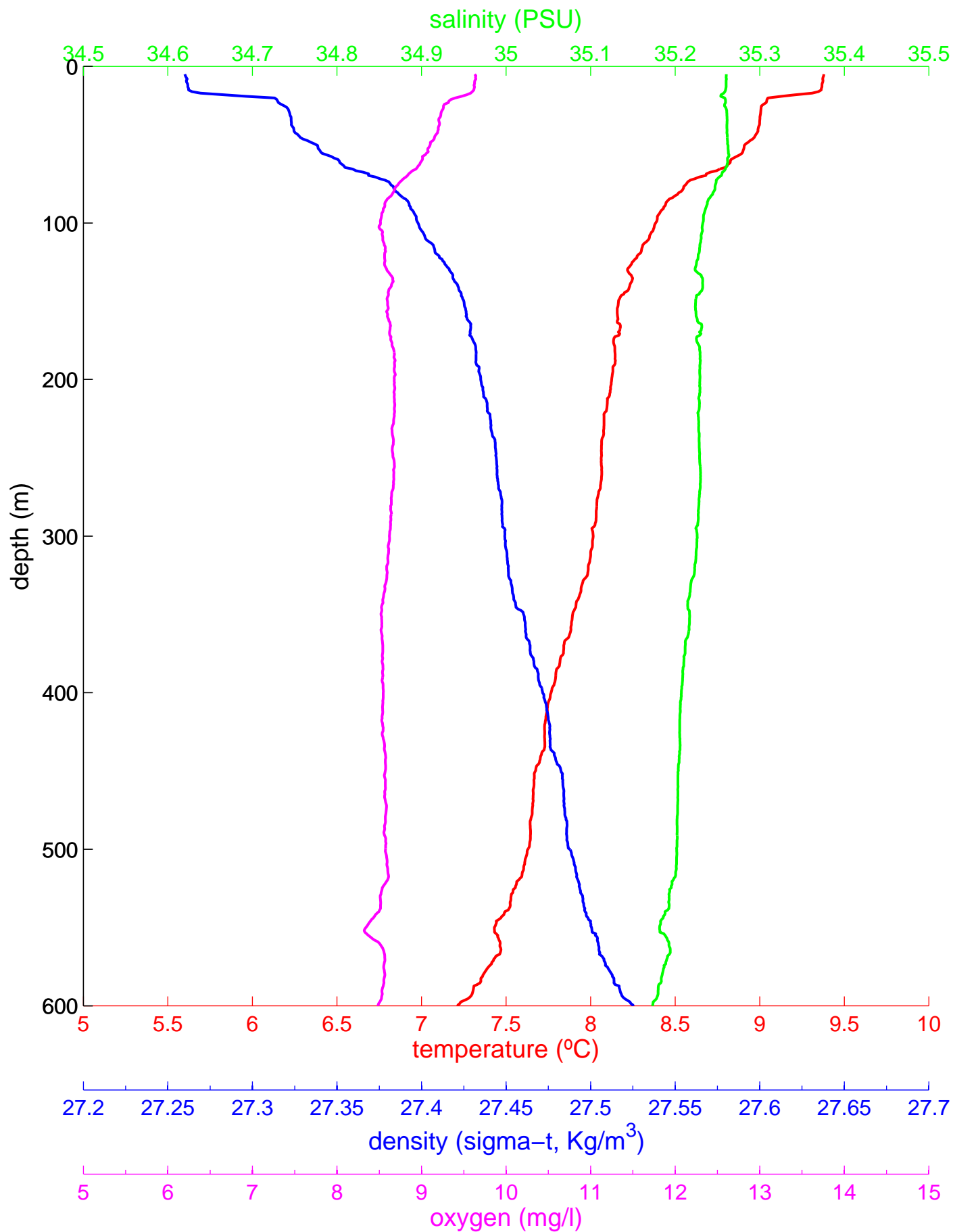
St: 85a Cast: 078 14-May-2008 23:24:16



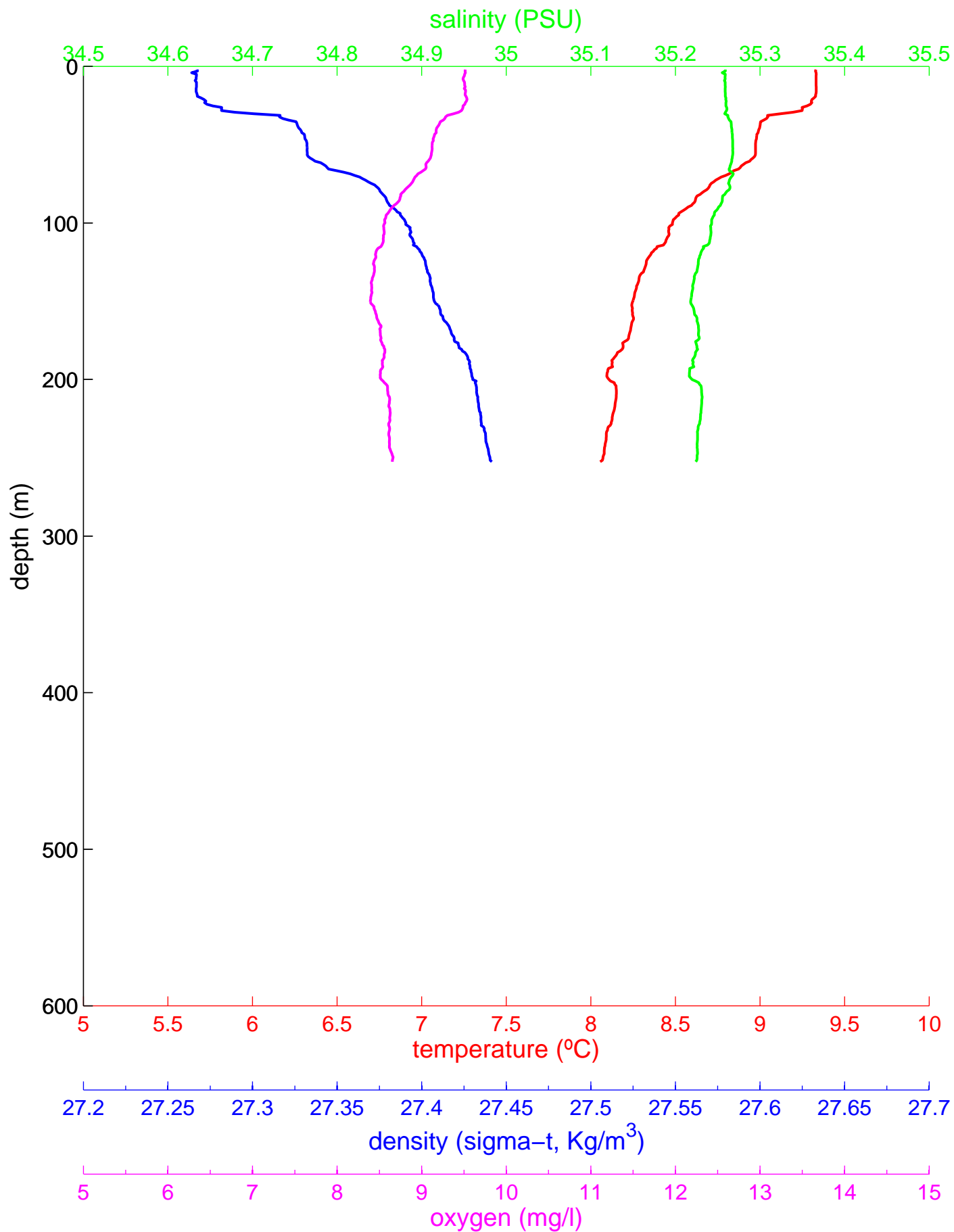
St: 86a Cast: 079 15-May-2008 02:10:05



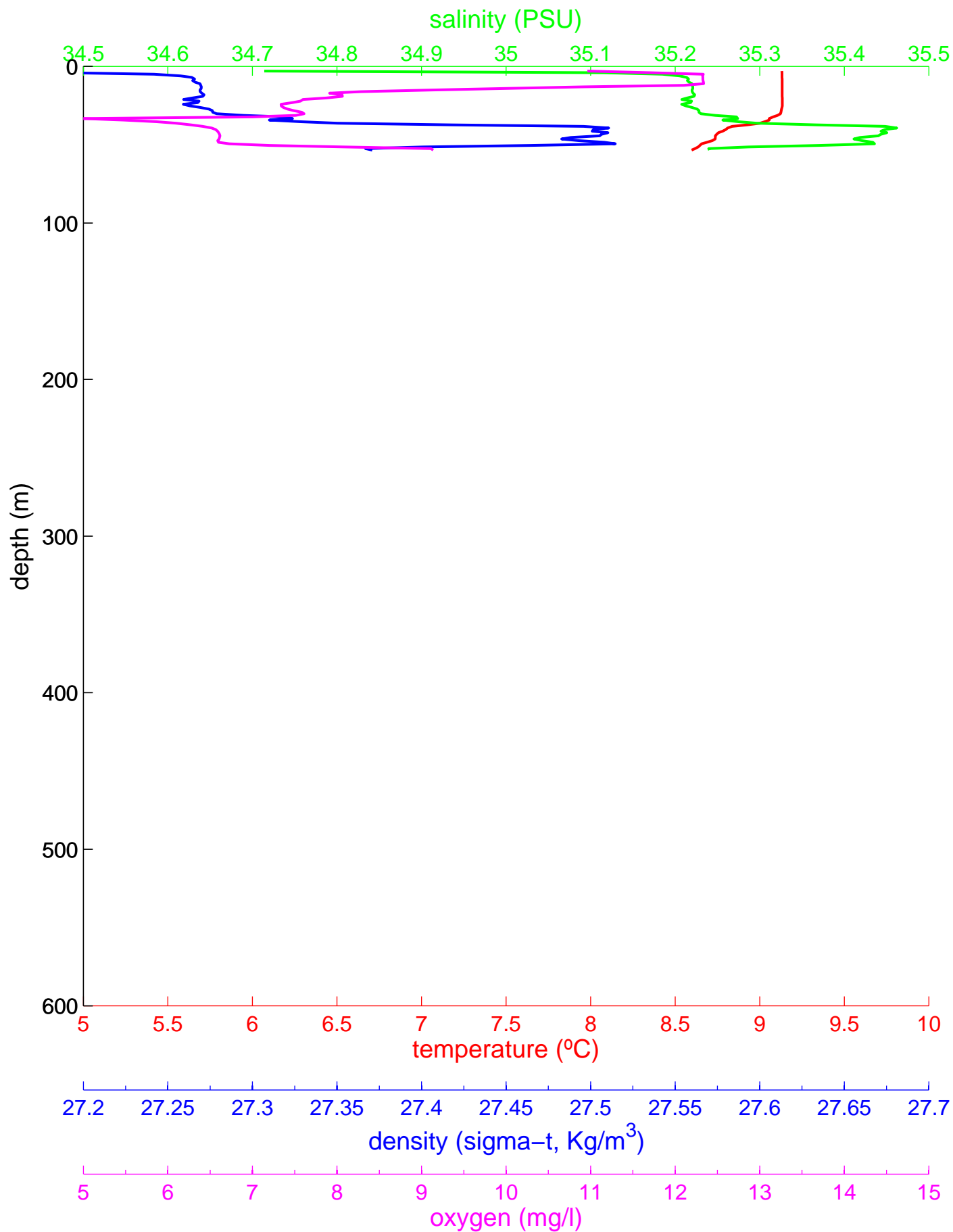
St: 87a Cast: 080 15-May-2008 03:09:27



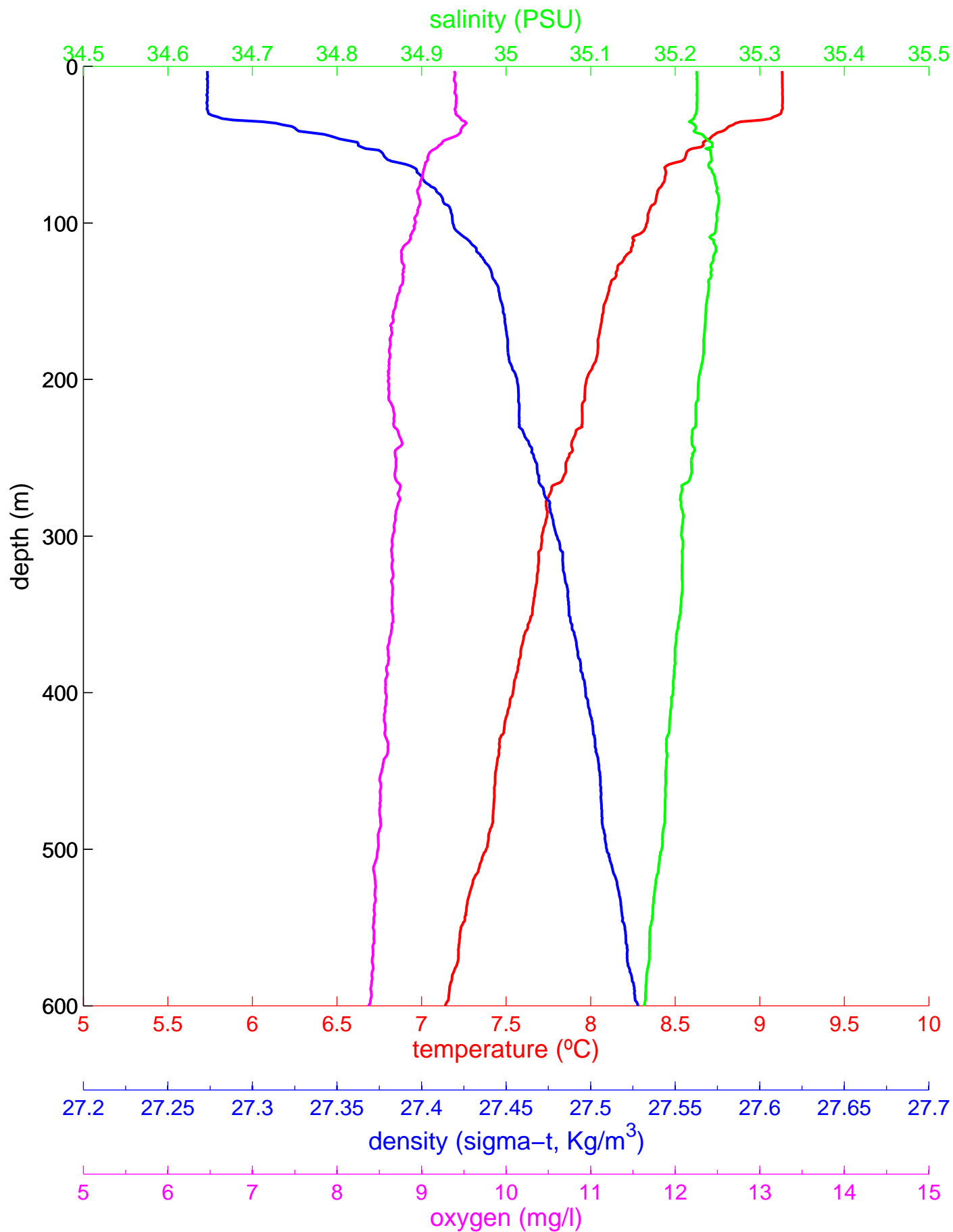
St: 88a Cast: 081 15-May-2008 04:34:37



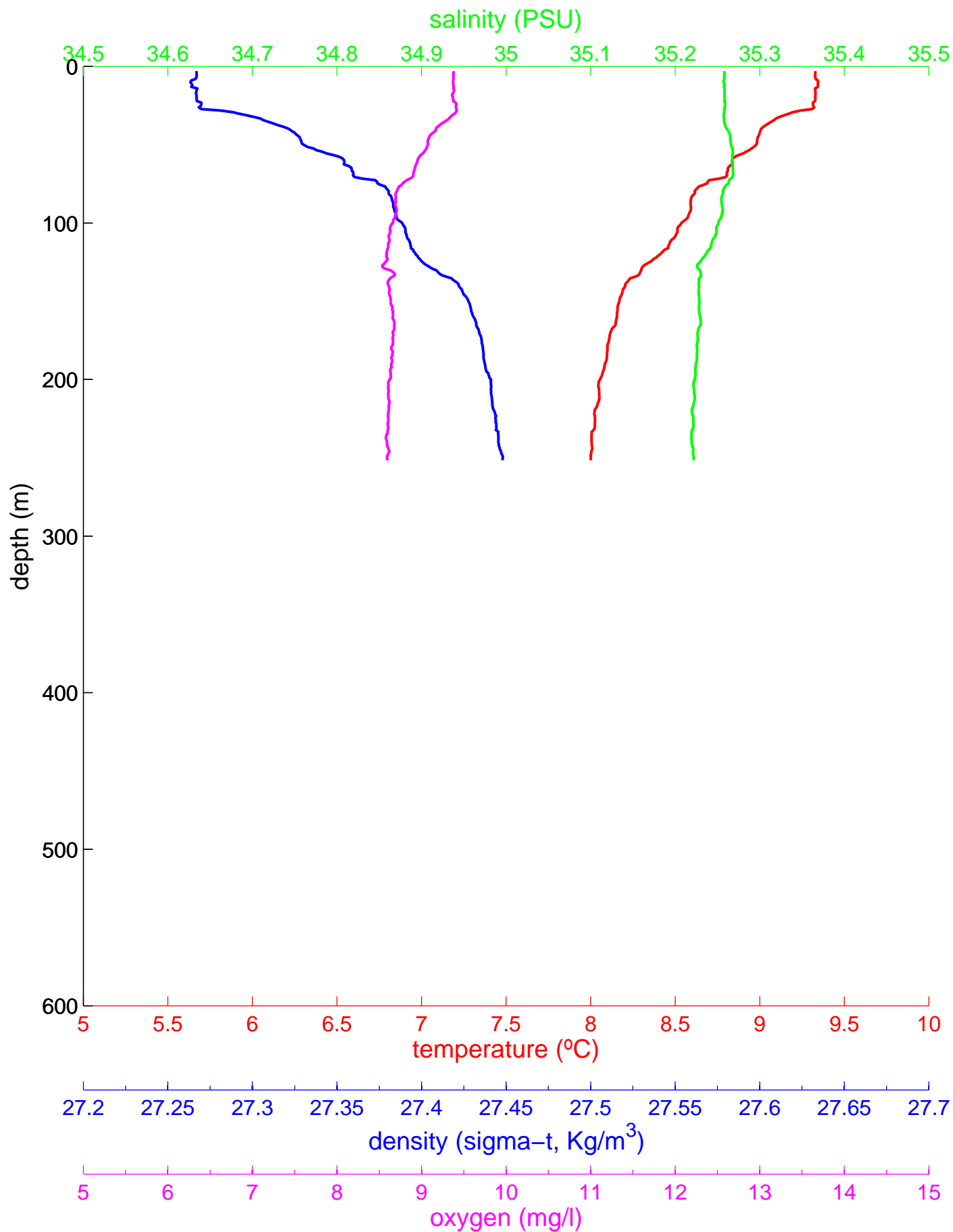
St: 89a Cast: 082 15-May-2008 05:51:25



St: 89a Cast: 083 15-May-2008 06:03:21

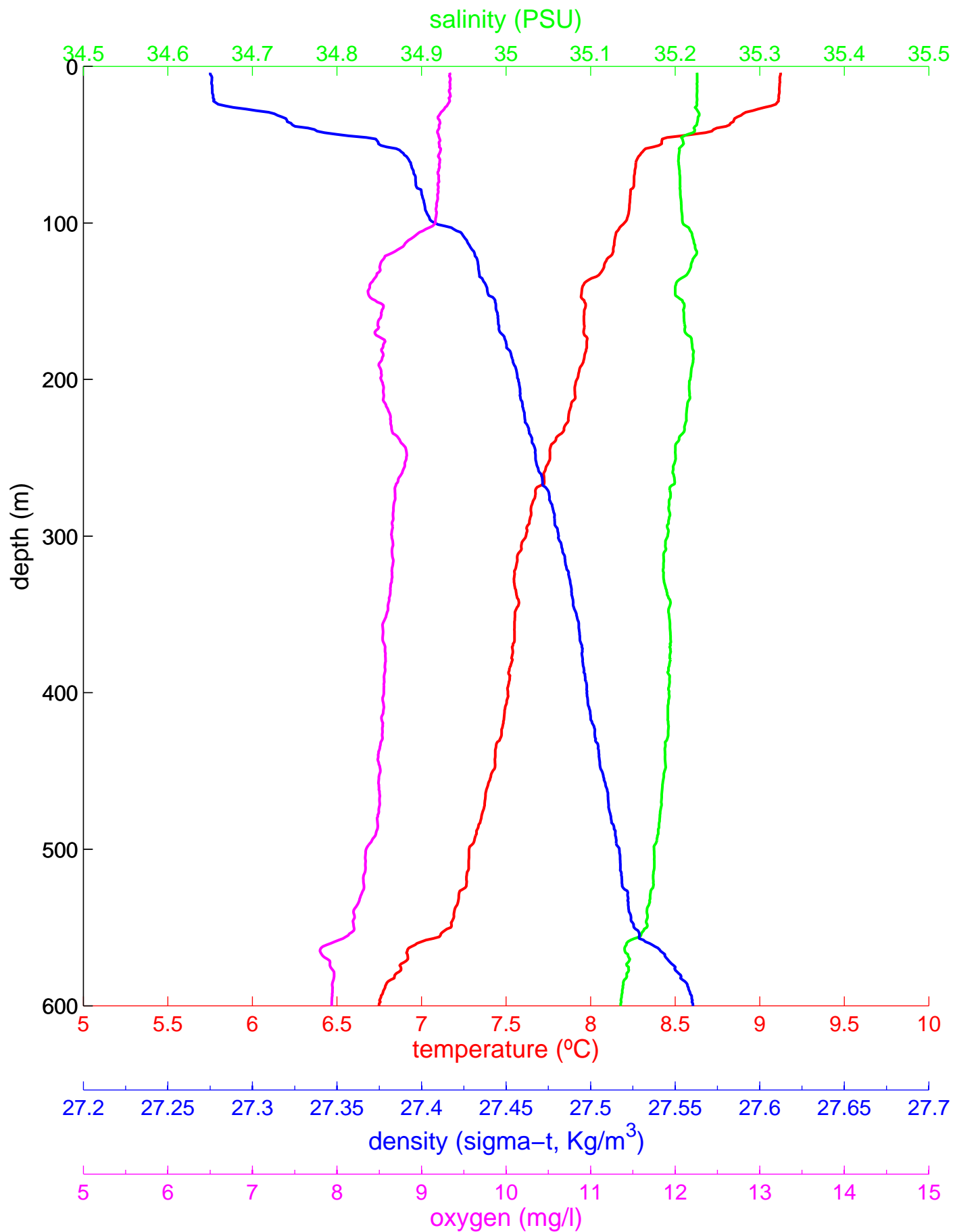


St: 90a Cast: 084 15-May-2008 07:32:08

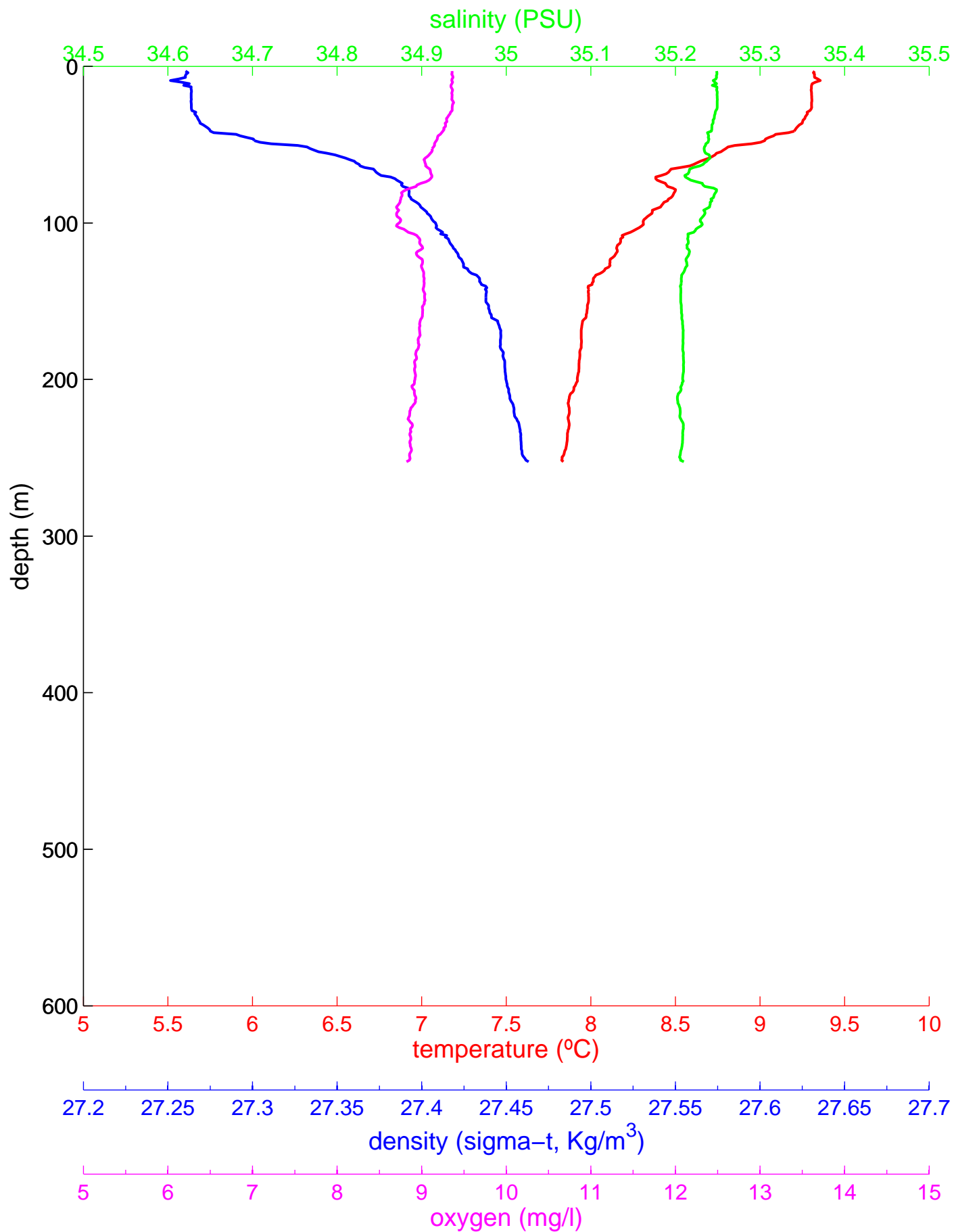




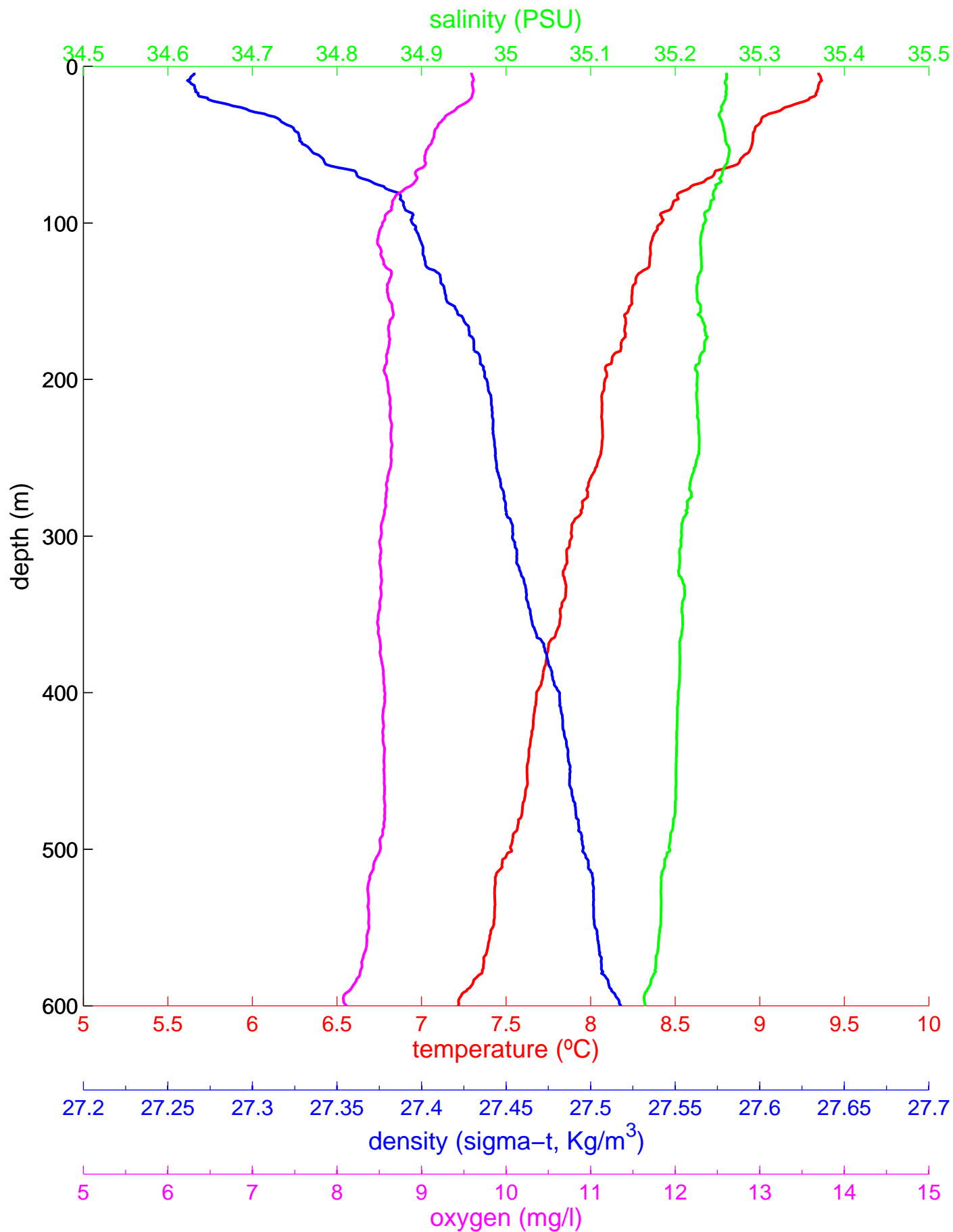
St: 91a Cast: 085 15-May-2008 08:40:50



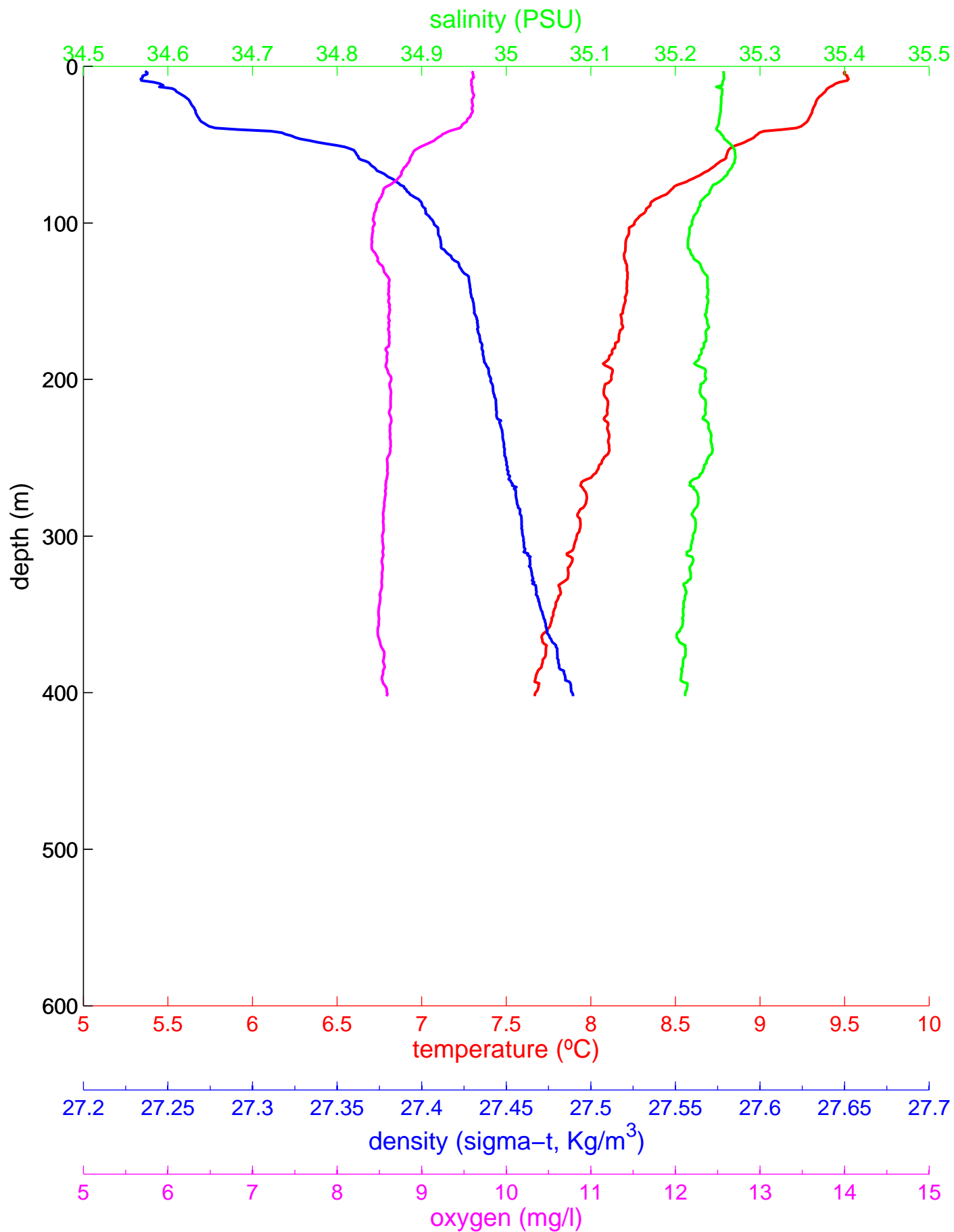
St: 92a Cast: 086 15-May-2008 10:16:52



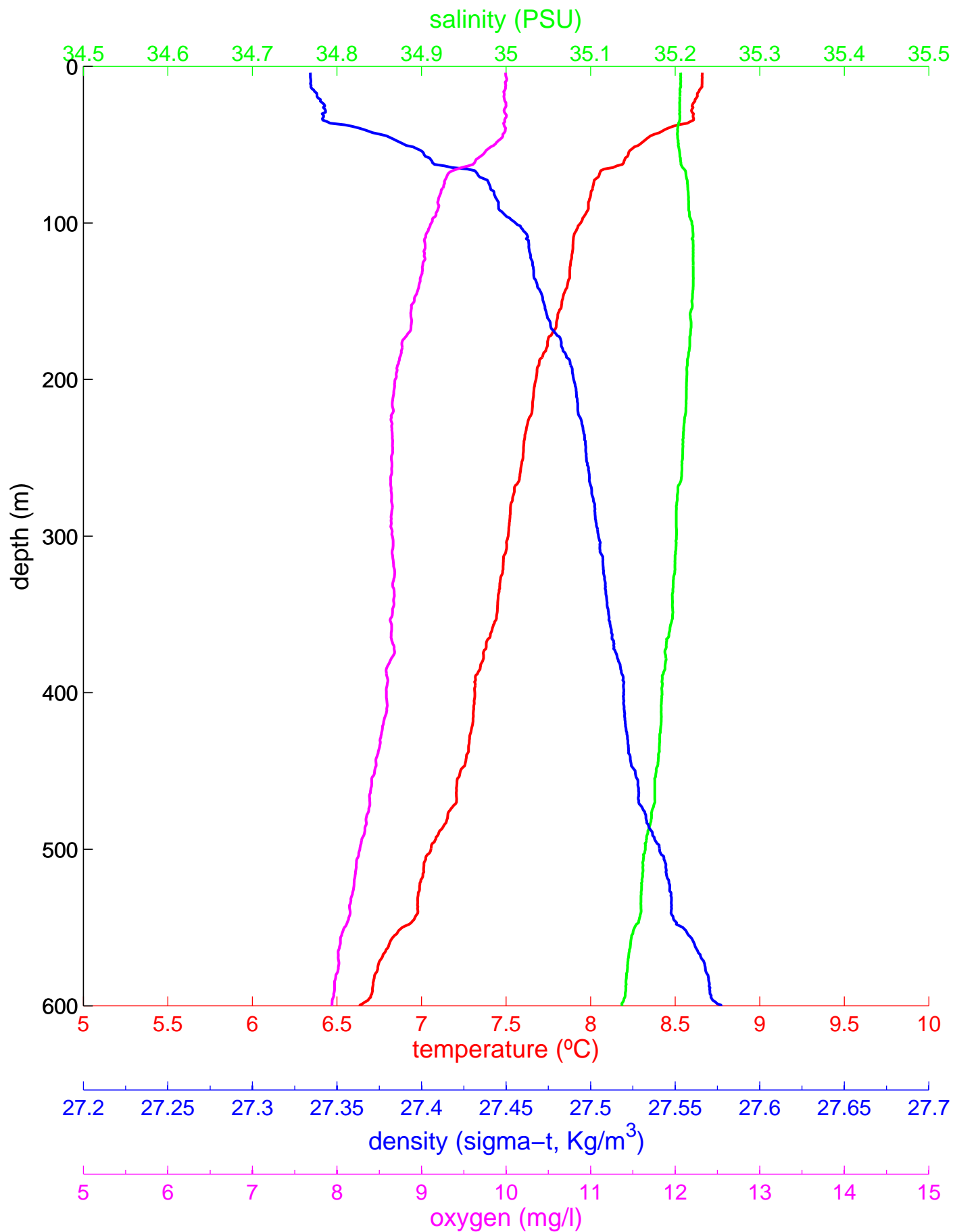
St: 93a Cast: 087 15-May-2008 11:17:21



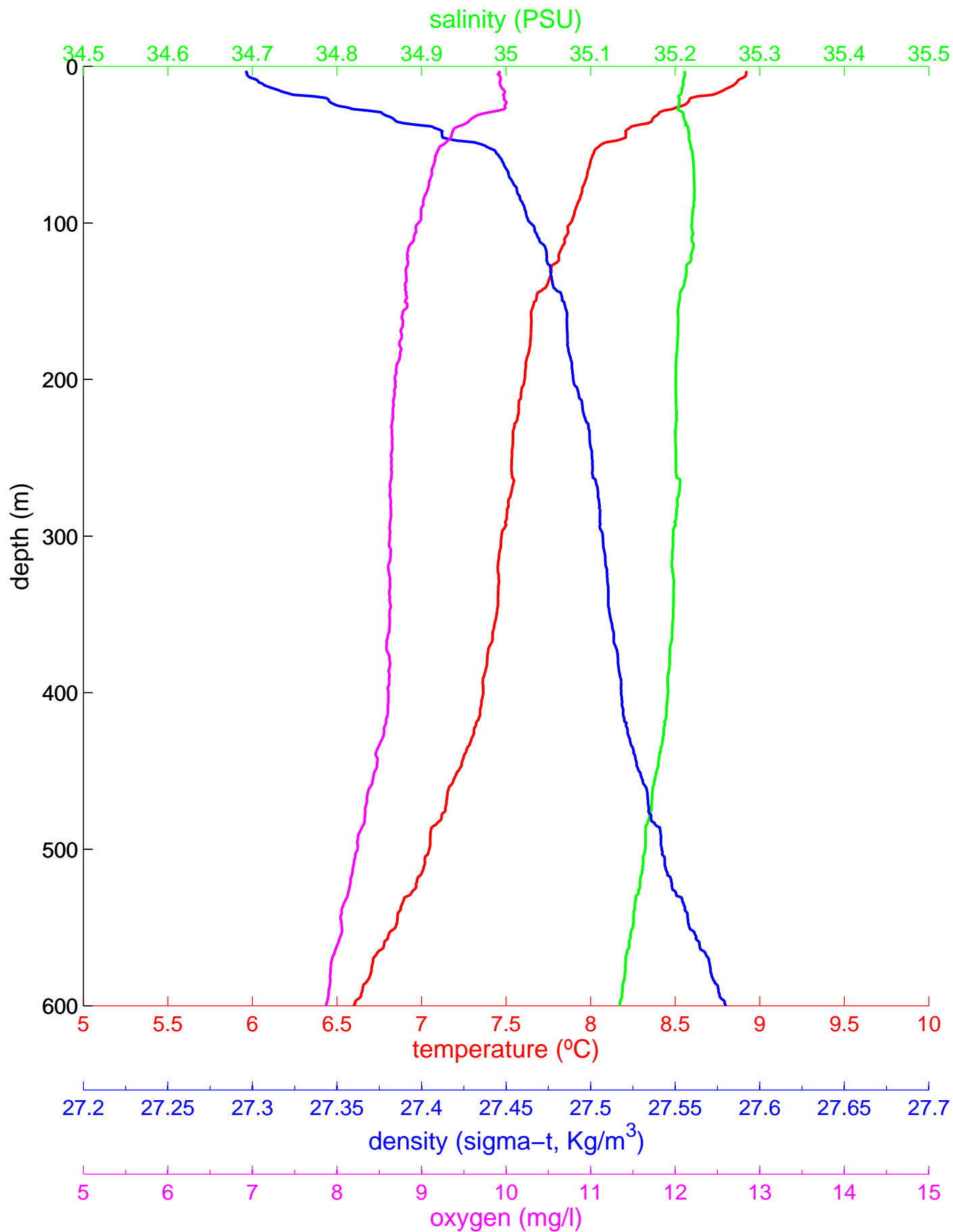
St: 94a Cast: 088 15-May-2008 16:22:47



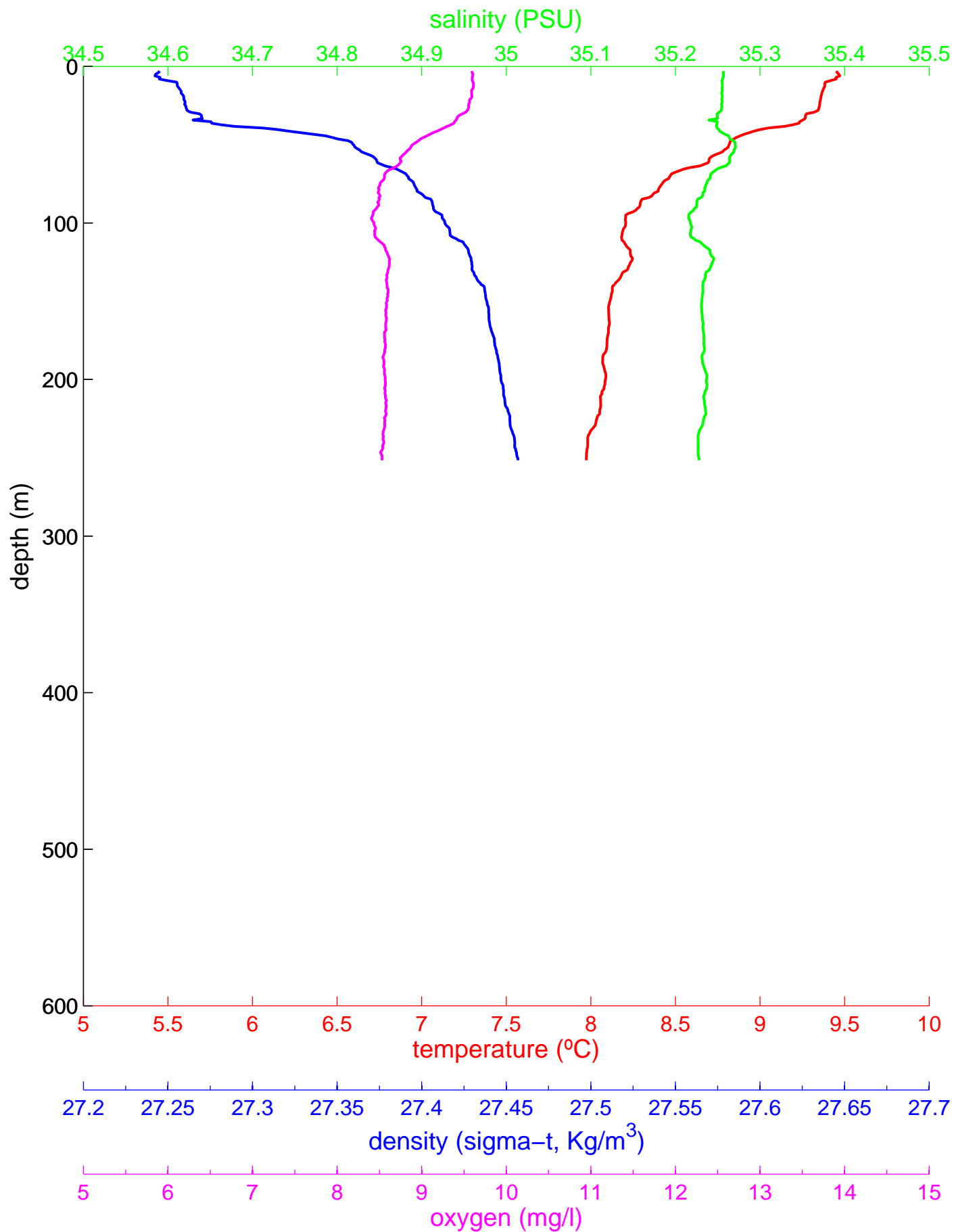
St: 100a Cast: 089 16-May-2008 11:11:17



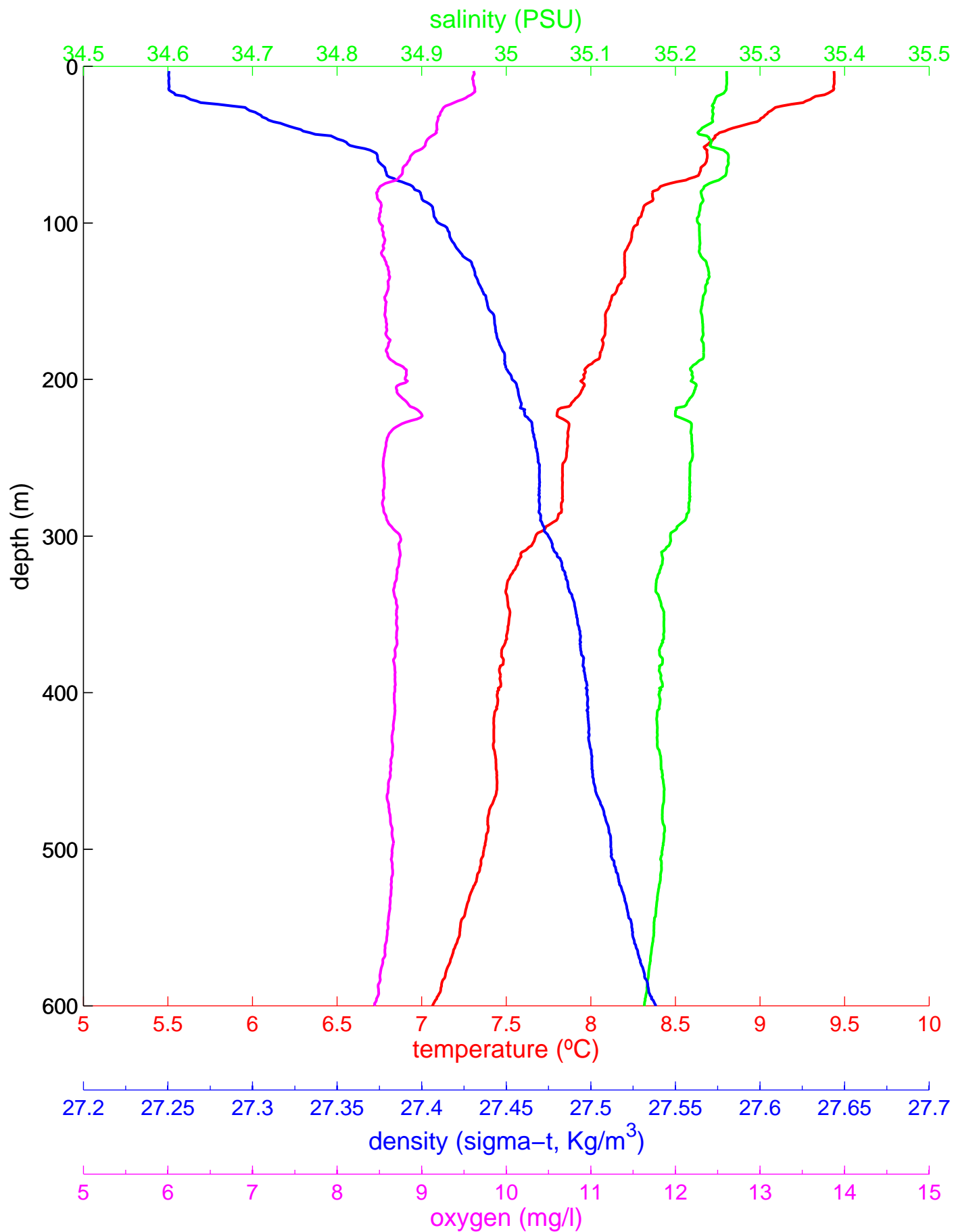
St: 100e Cast: 090 16-May-2008 13:44:28



St: 101b Cast: 091 16-May-2008 16:56:23

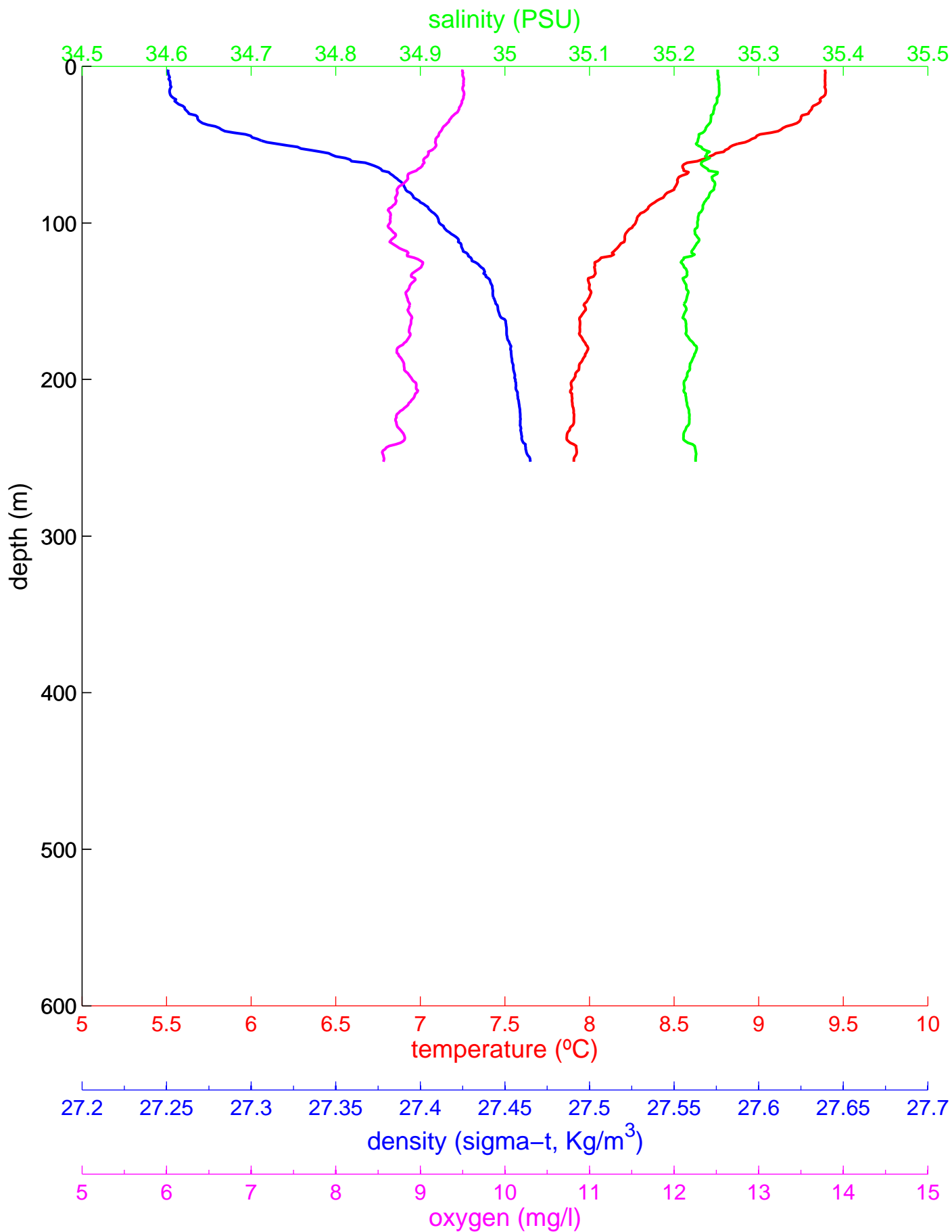


St: 102a Cast: 092 17-May-2008 00:49:39

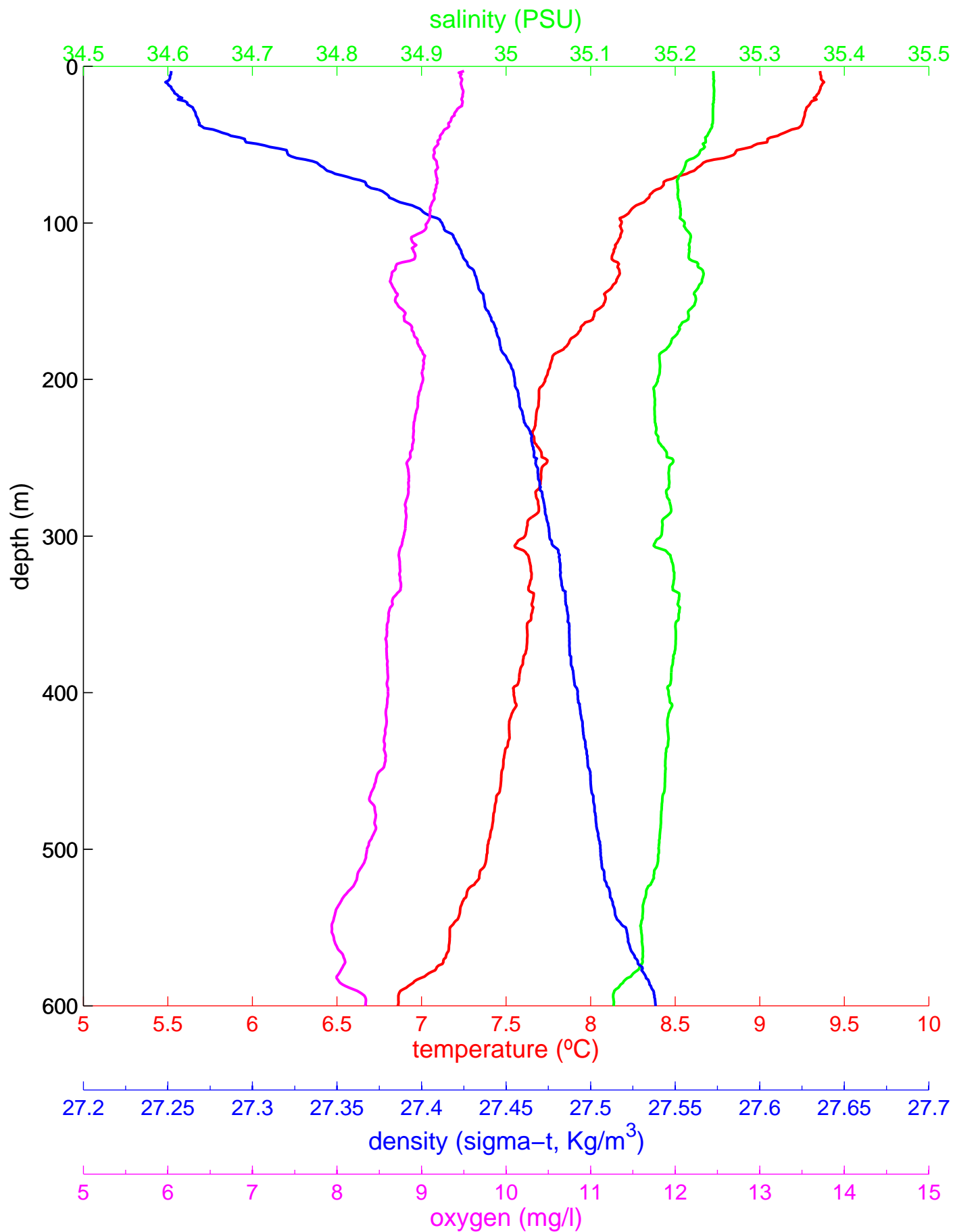




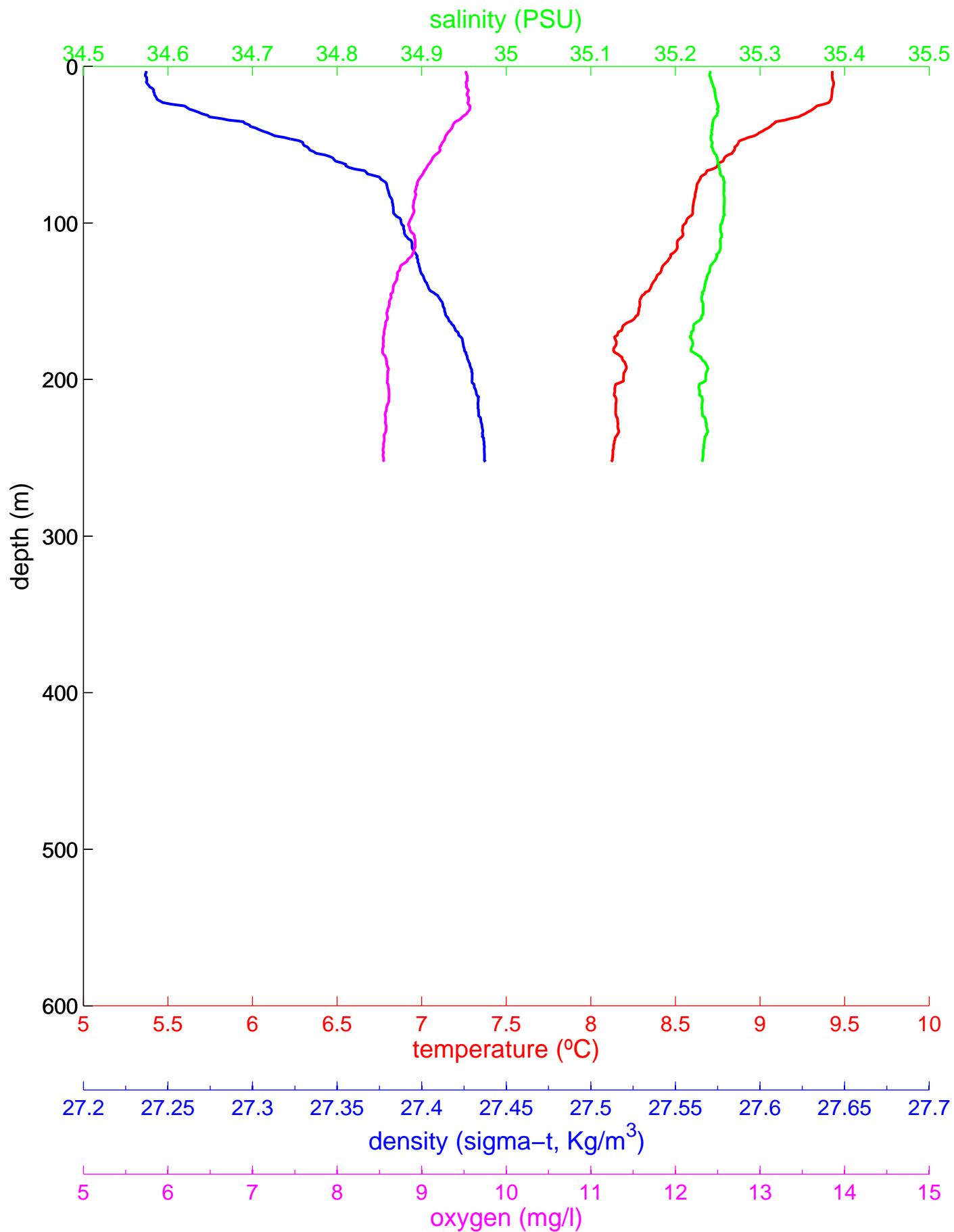
St: 103c Cast: 093 17-May-2008 03:10:04



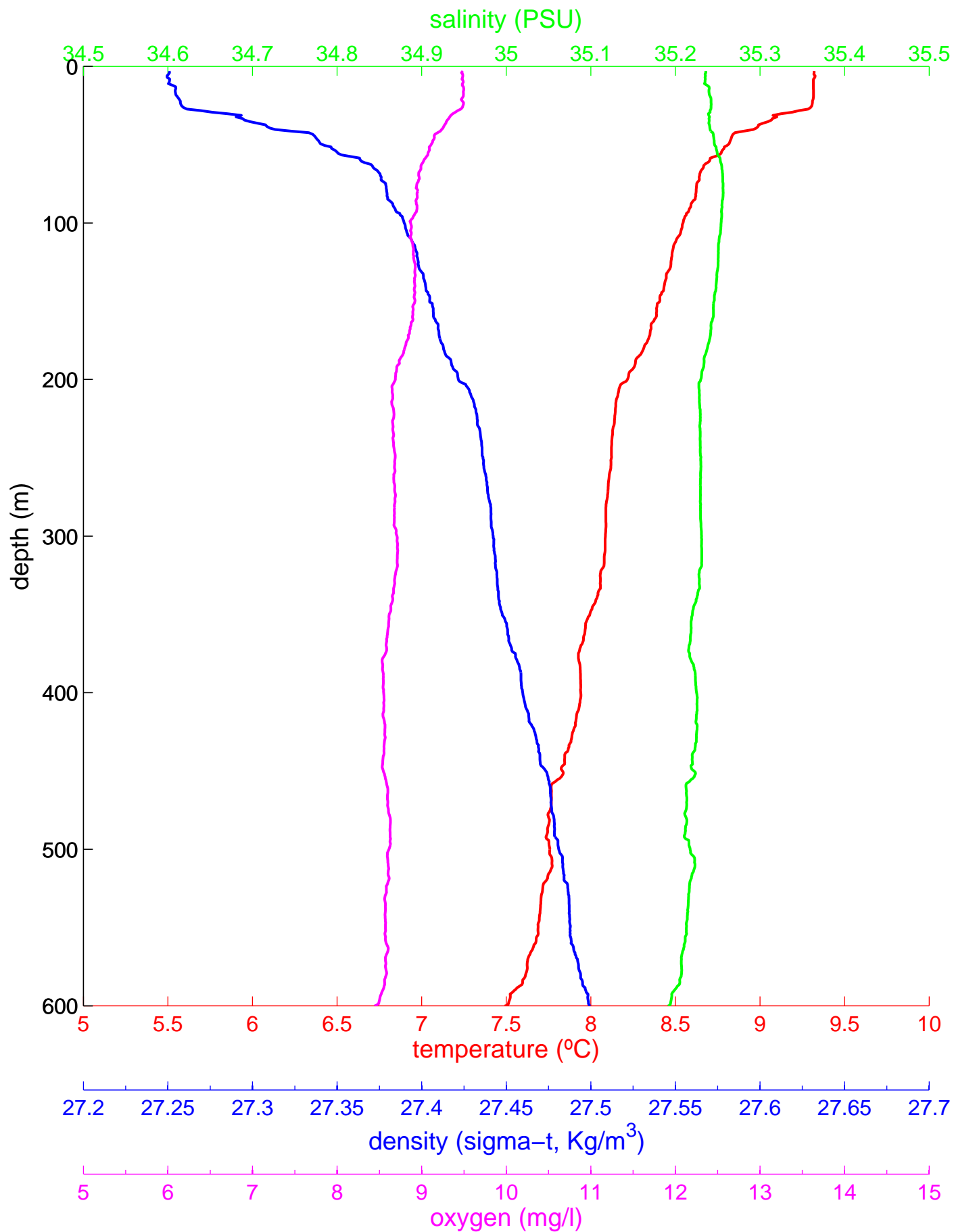
St: 104a Cast: 094 17-May-2008 04:15:32



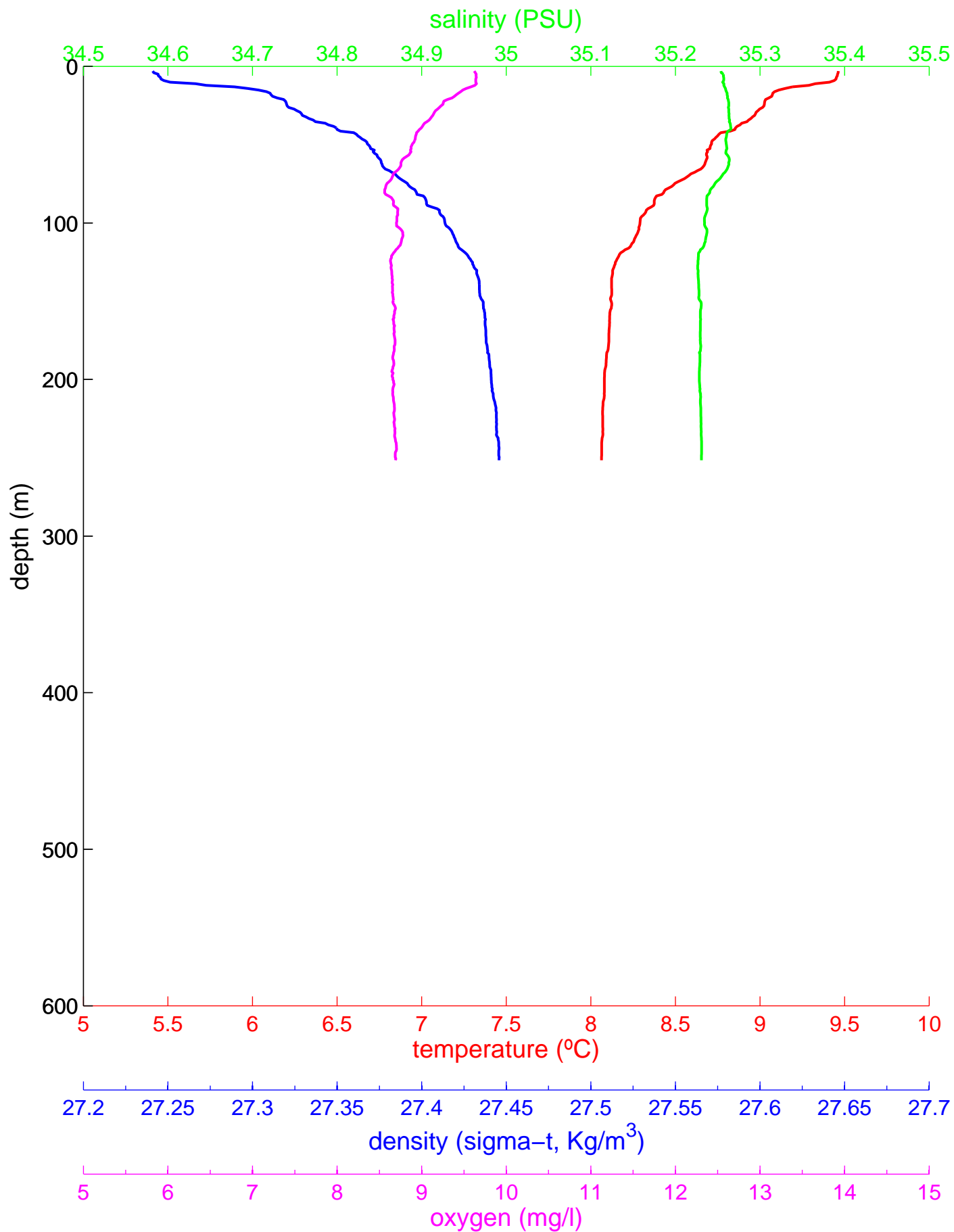
St: 105a Cast: 095 17-May-2008 05:43:45



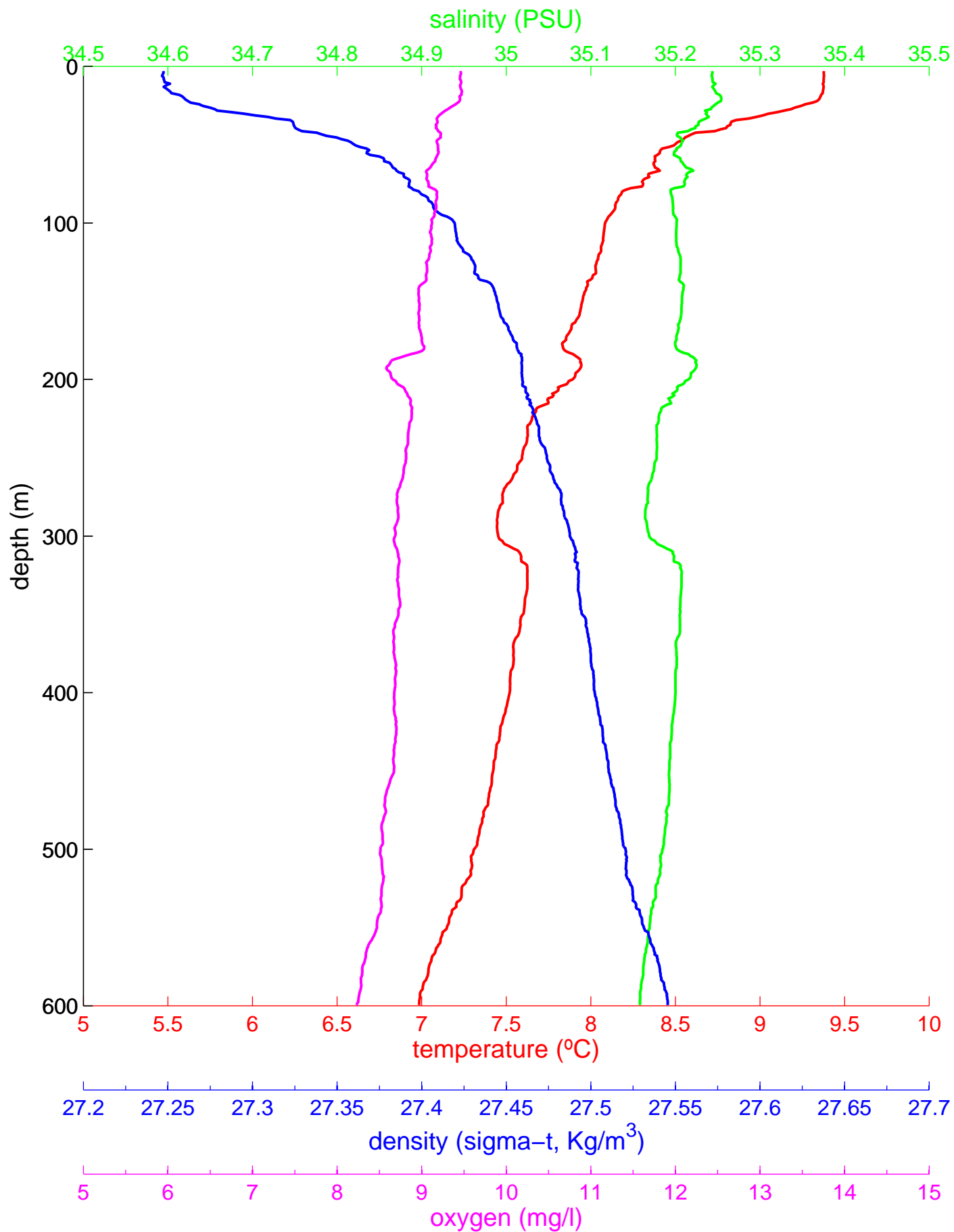
St: 106a Cast: 096 17-May-2008 06:50:21



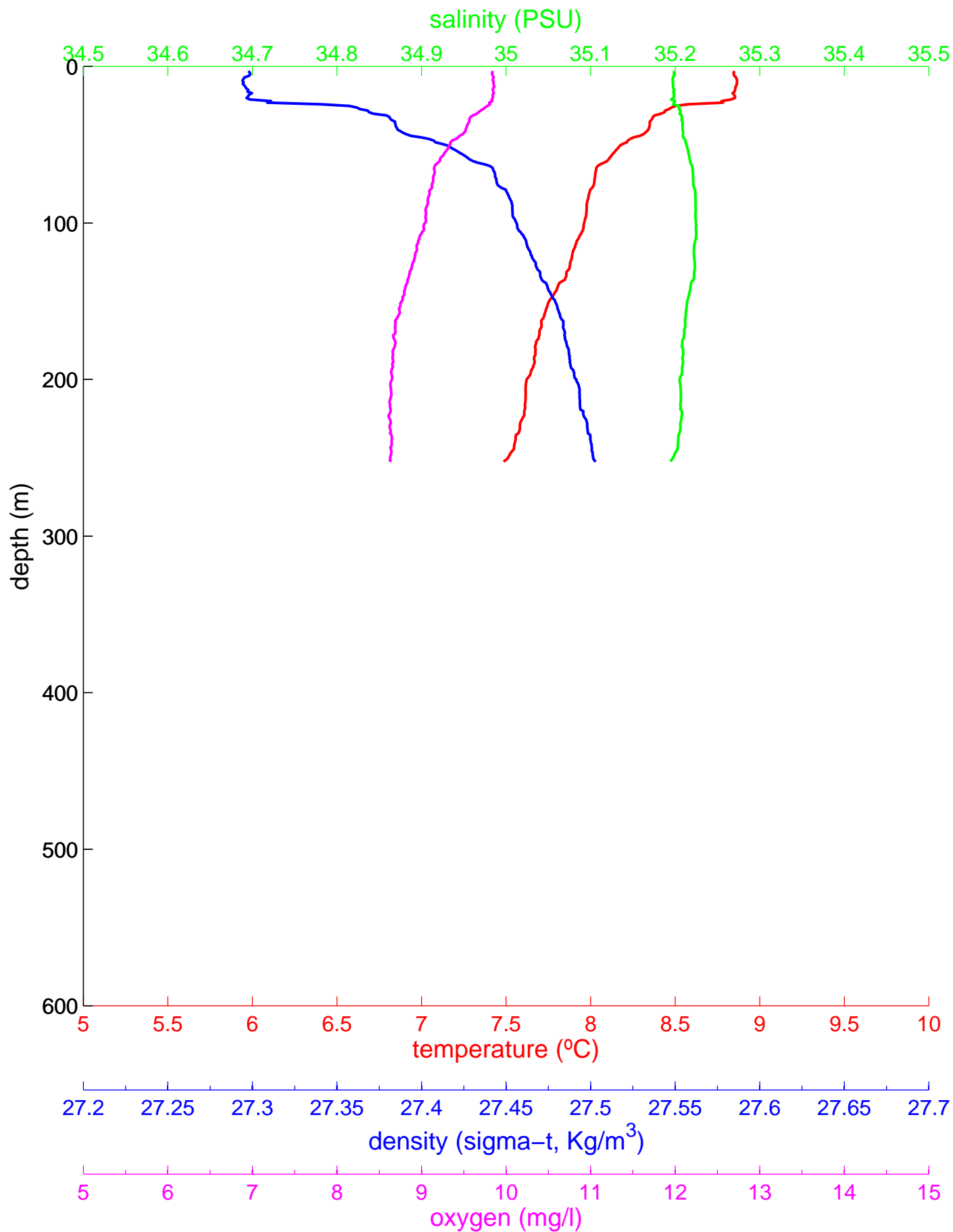
St: 107a Cast: 097 17-May-2008 08:08:35



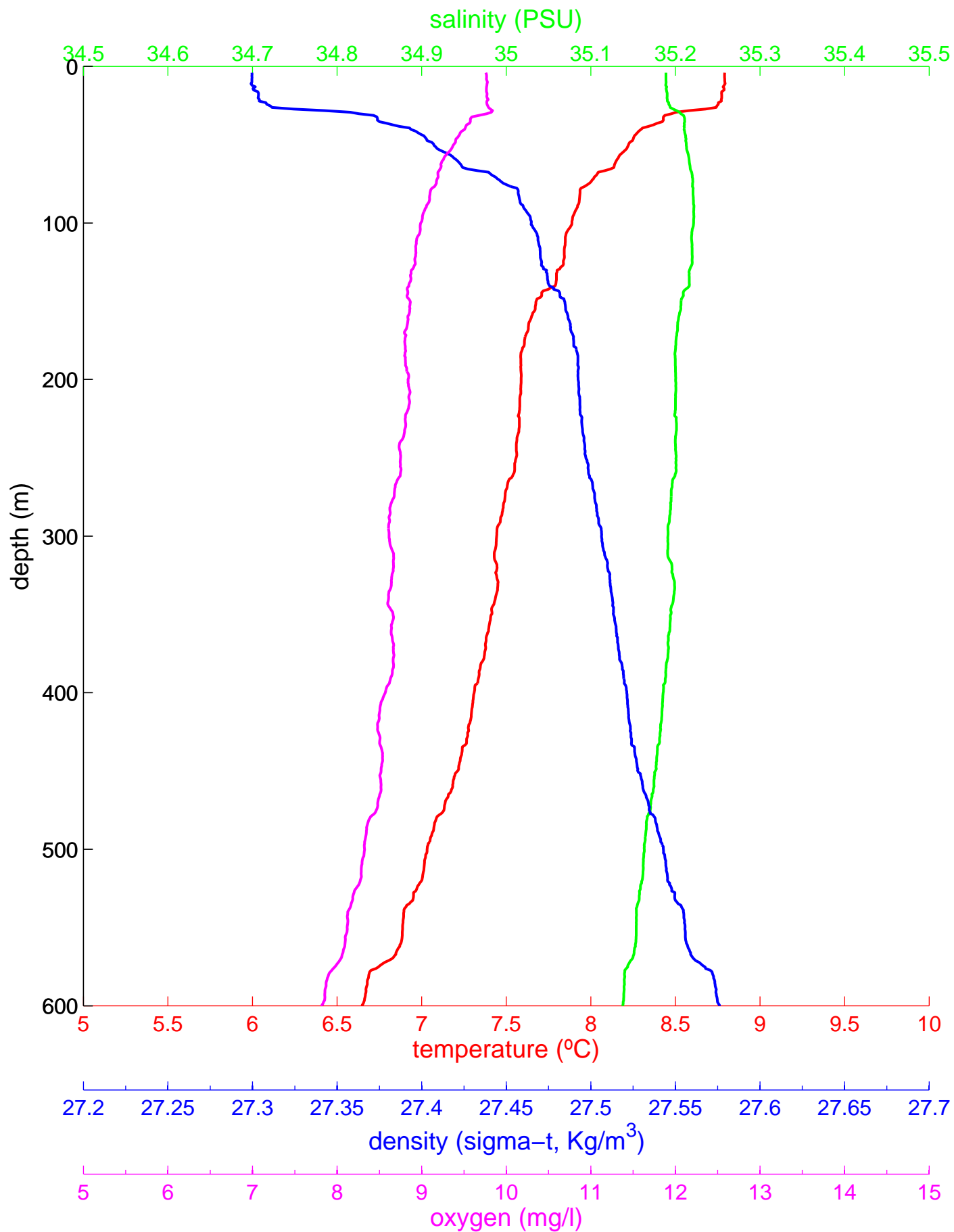
St: 108a Cast: 098 17-May-2008 09:15:20



St: 109a Cast: 099 17-May-2008 10:37:46

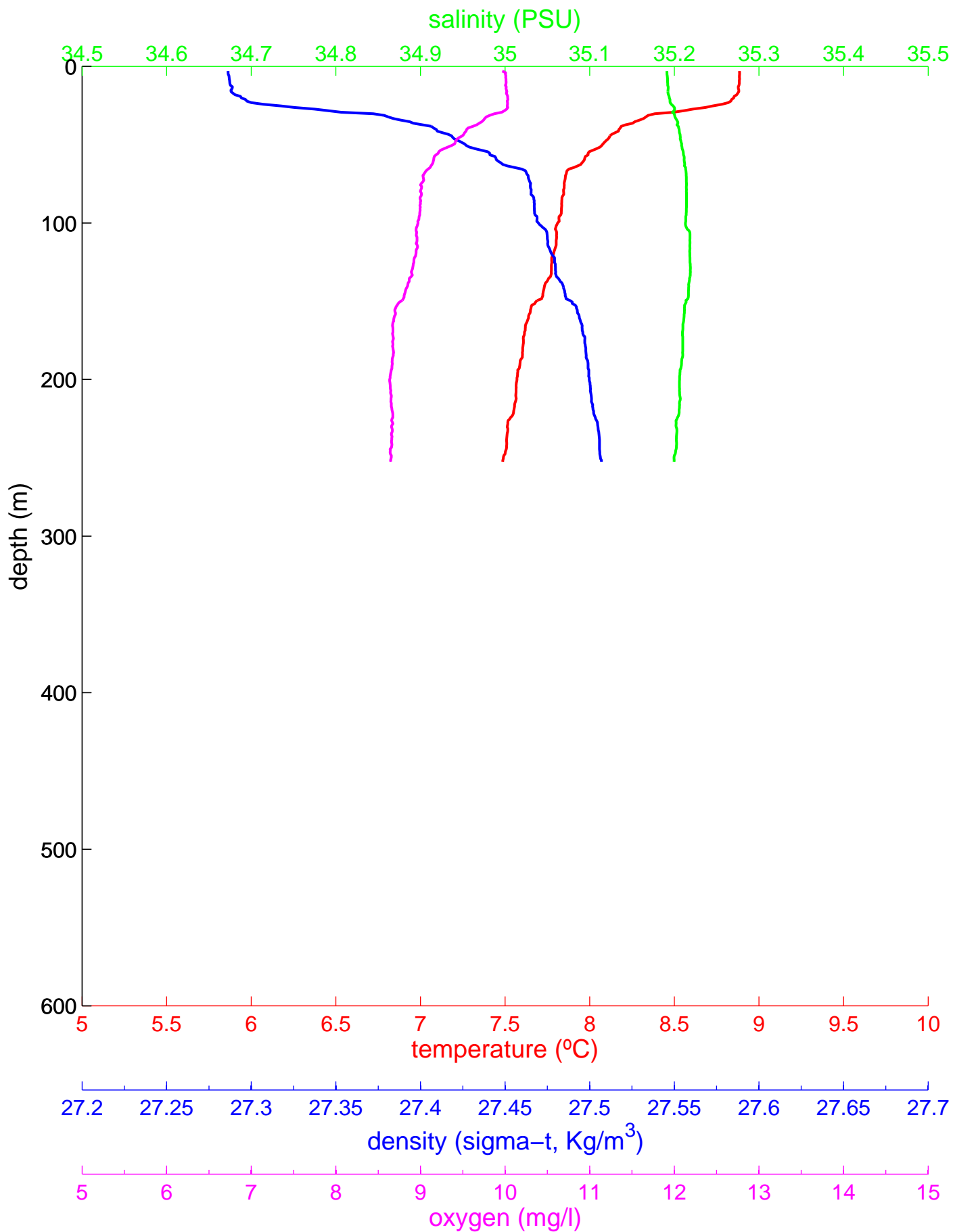


St: 109a Cast: 100 17-May-2008 11:52:18

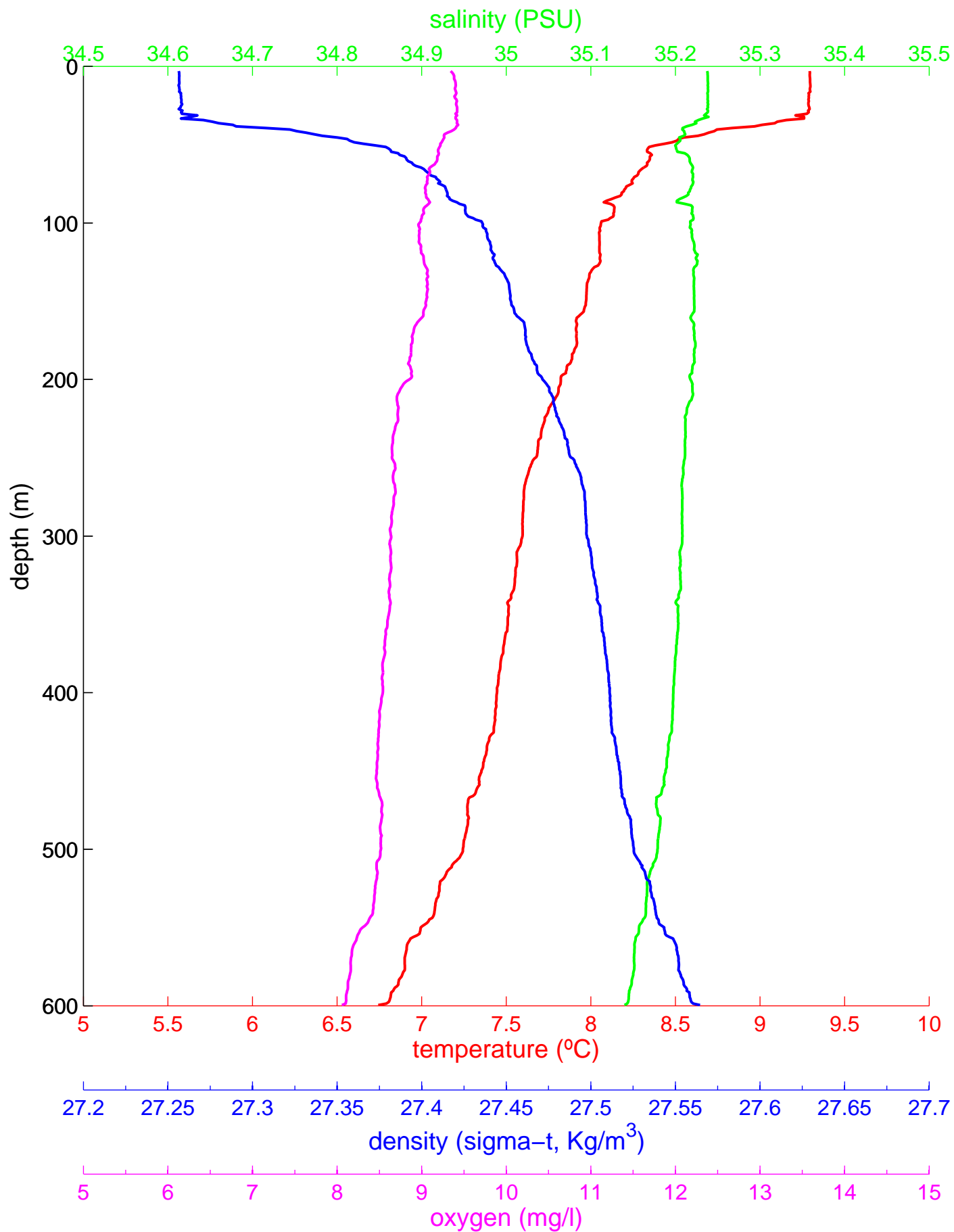




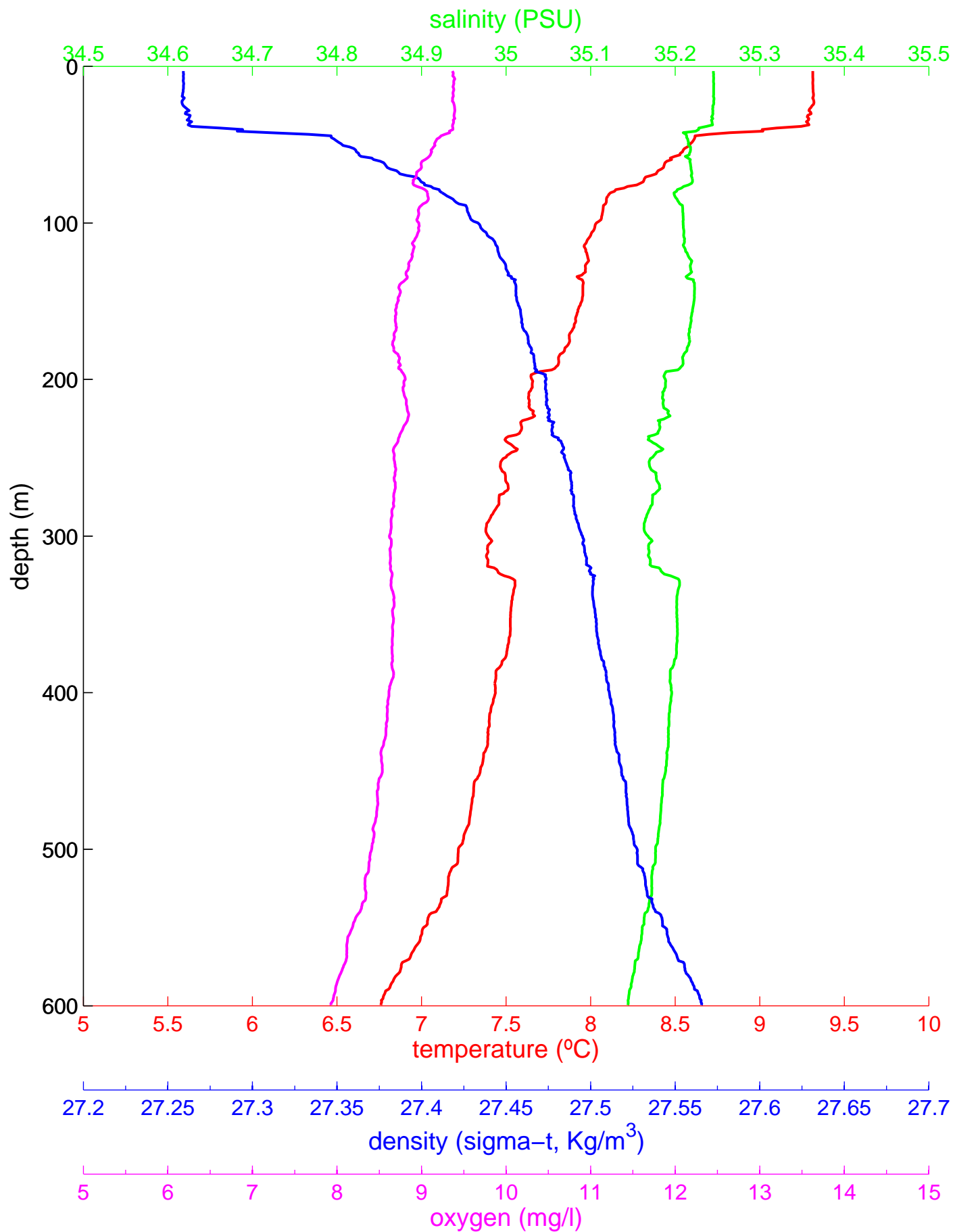
St: 111a Cast: 101 17-May-2008 16:00:27



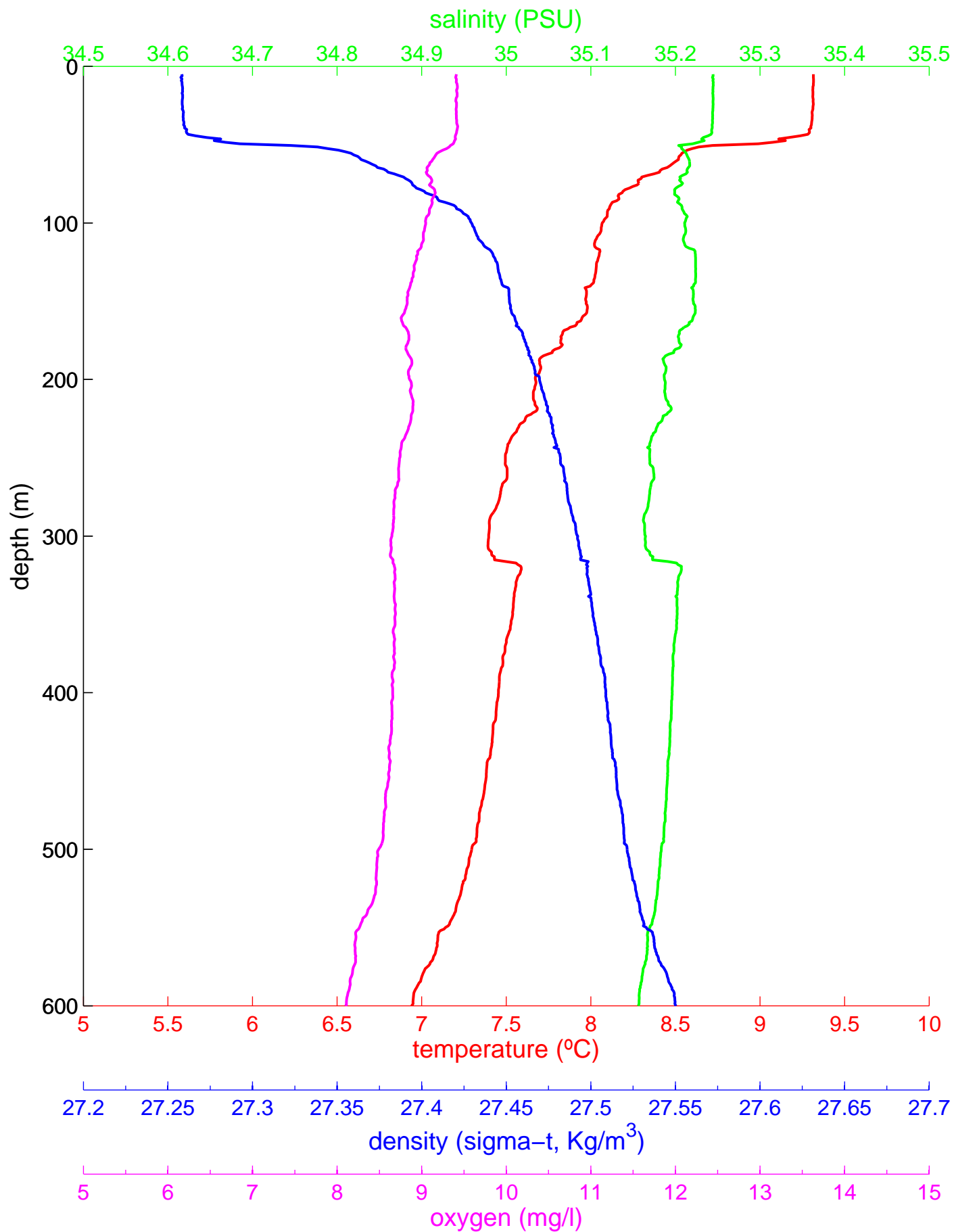
St: 112a Cast: 102 17-May-2008 17:31:30



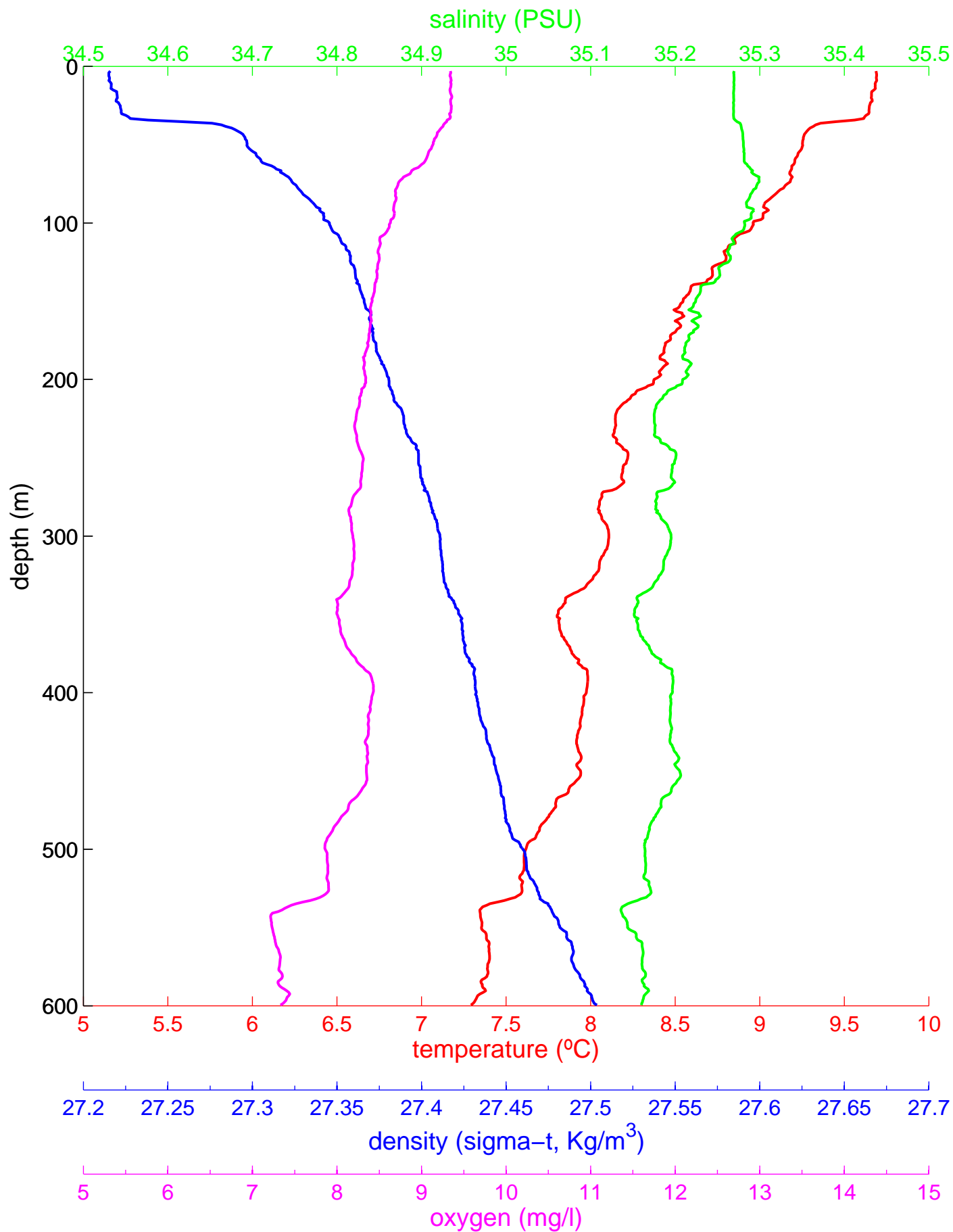
St: 113a Cast: 103 17-May-2008 18:59:53



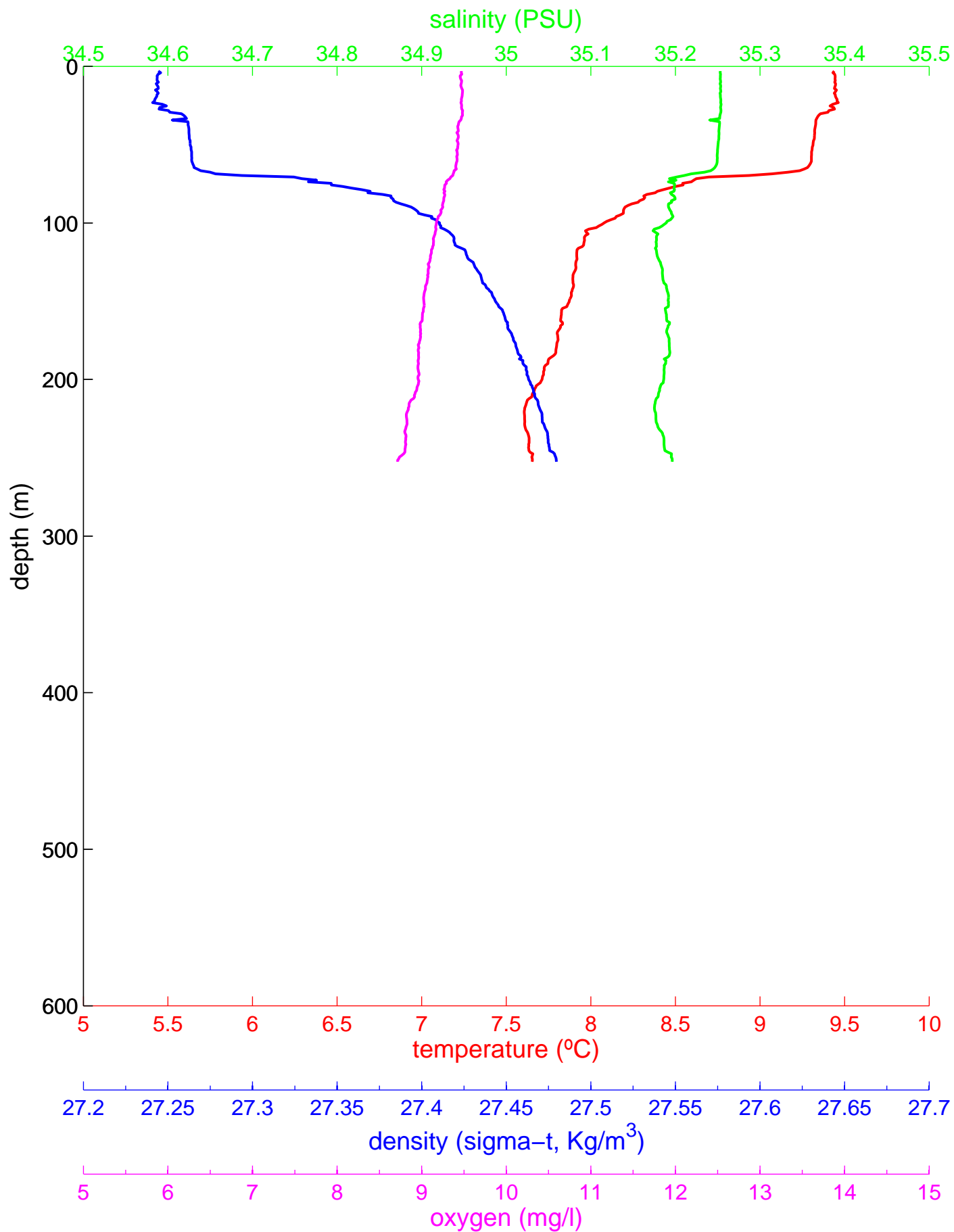
St: 114a Cast: 104 17-May-2008 20:13:12



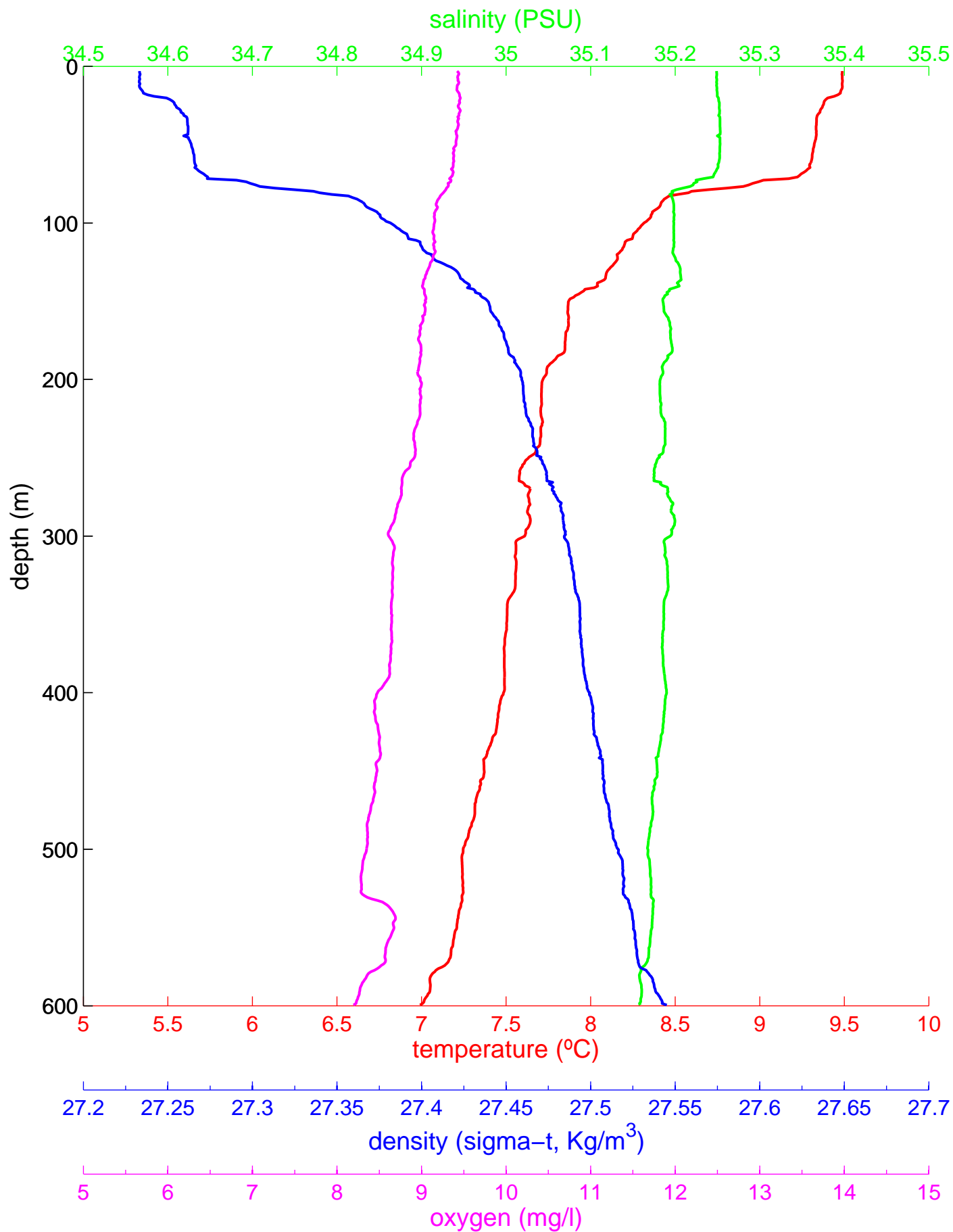
St: 116a Cast: 105 18-May-2008 12:32:22



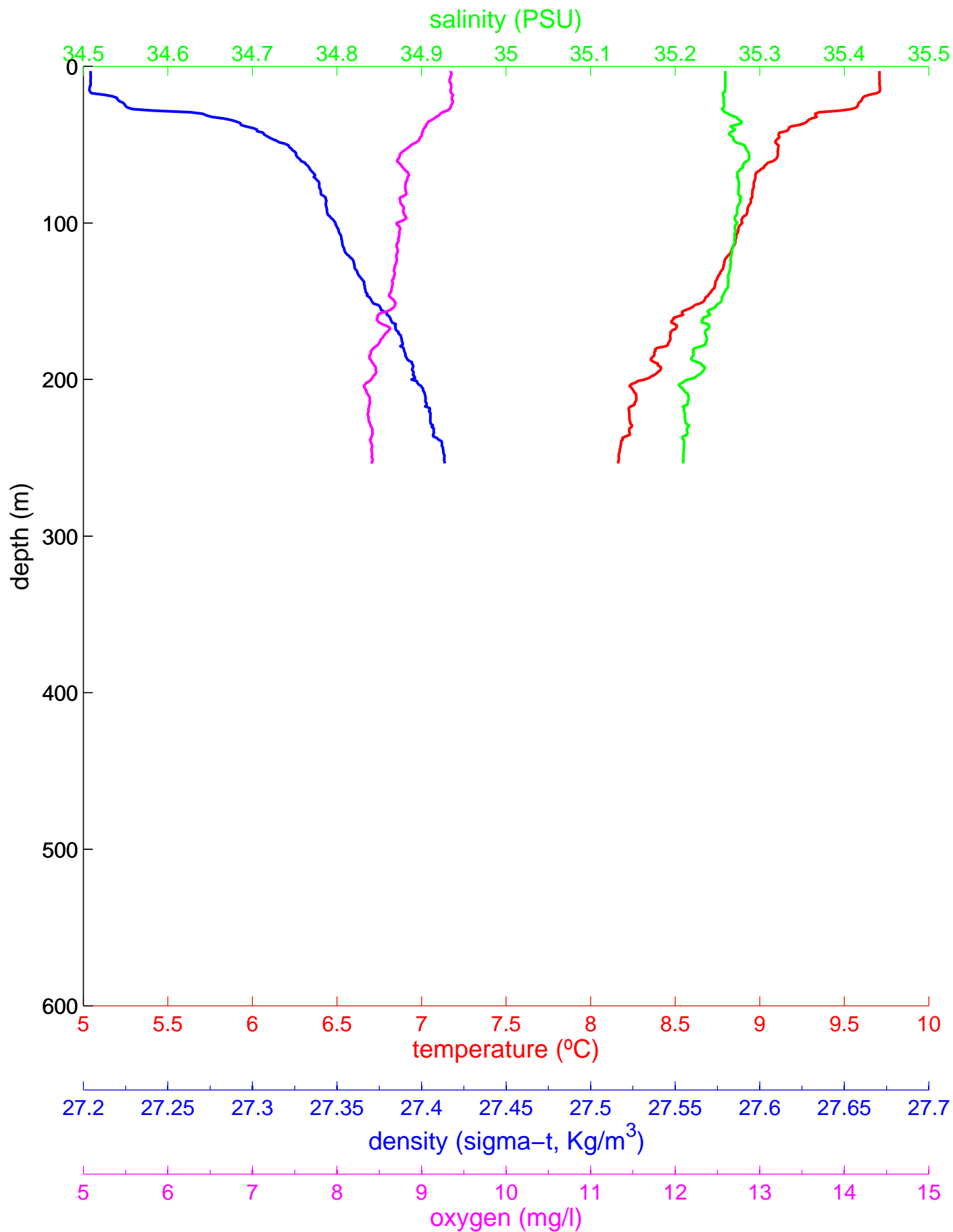
St: 117a Cast: 106 18-May-2008 15:59:48



St: 118b Cast: 107 18-May-2008 19:54:36

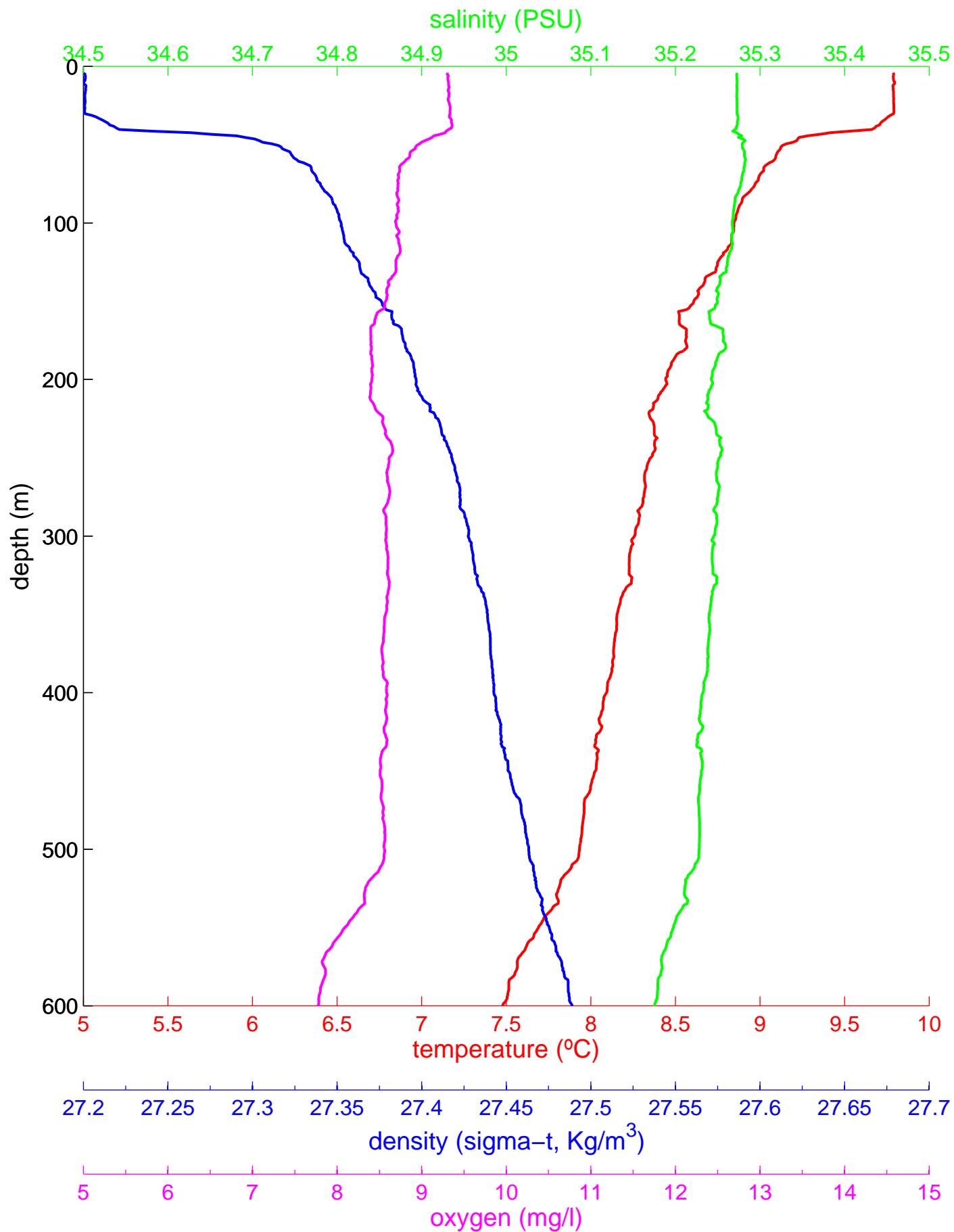


St: 119a Cast: 108 18-May-2008 21:26:59

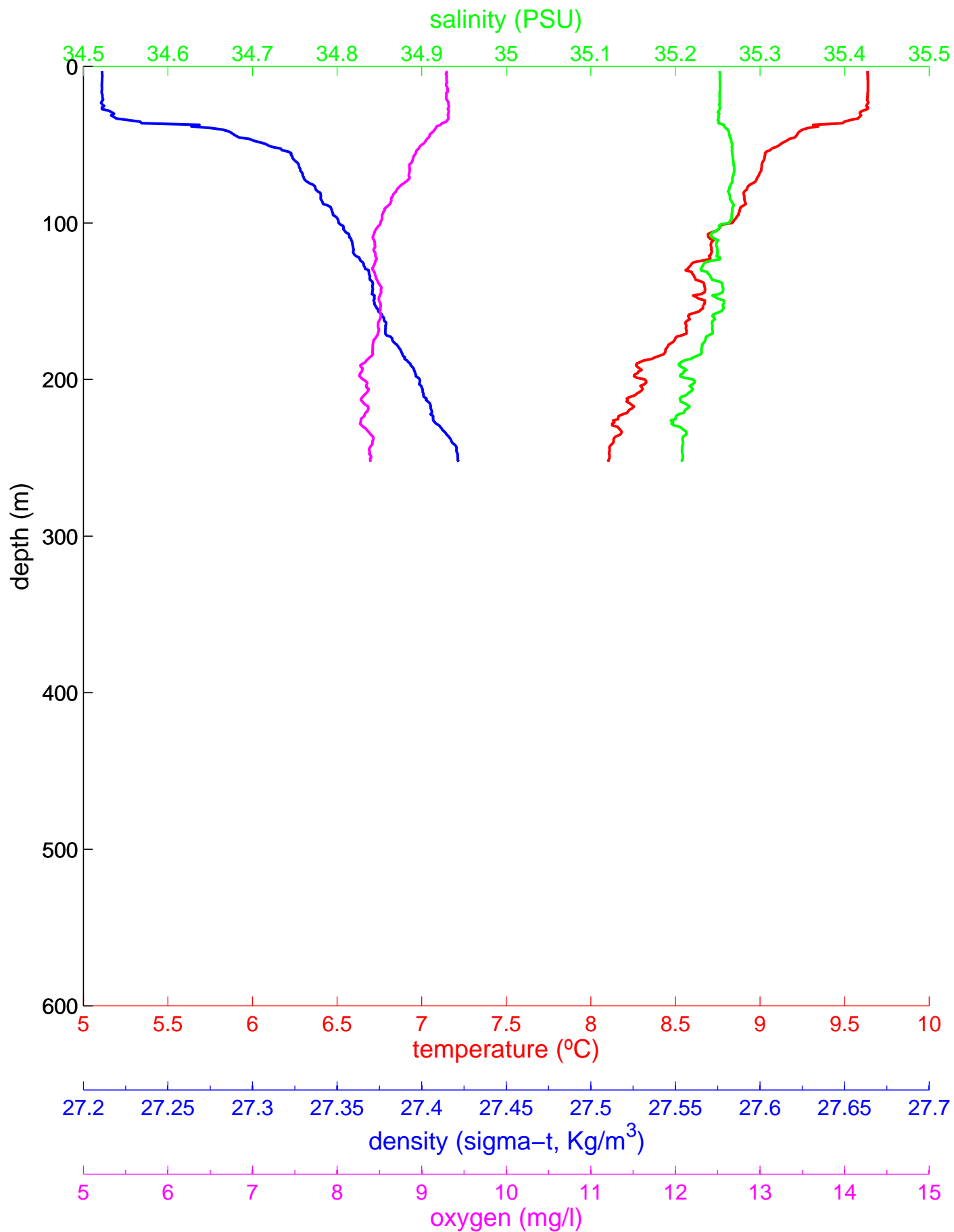




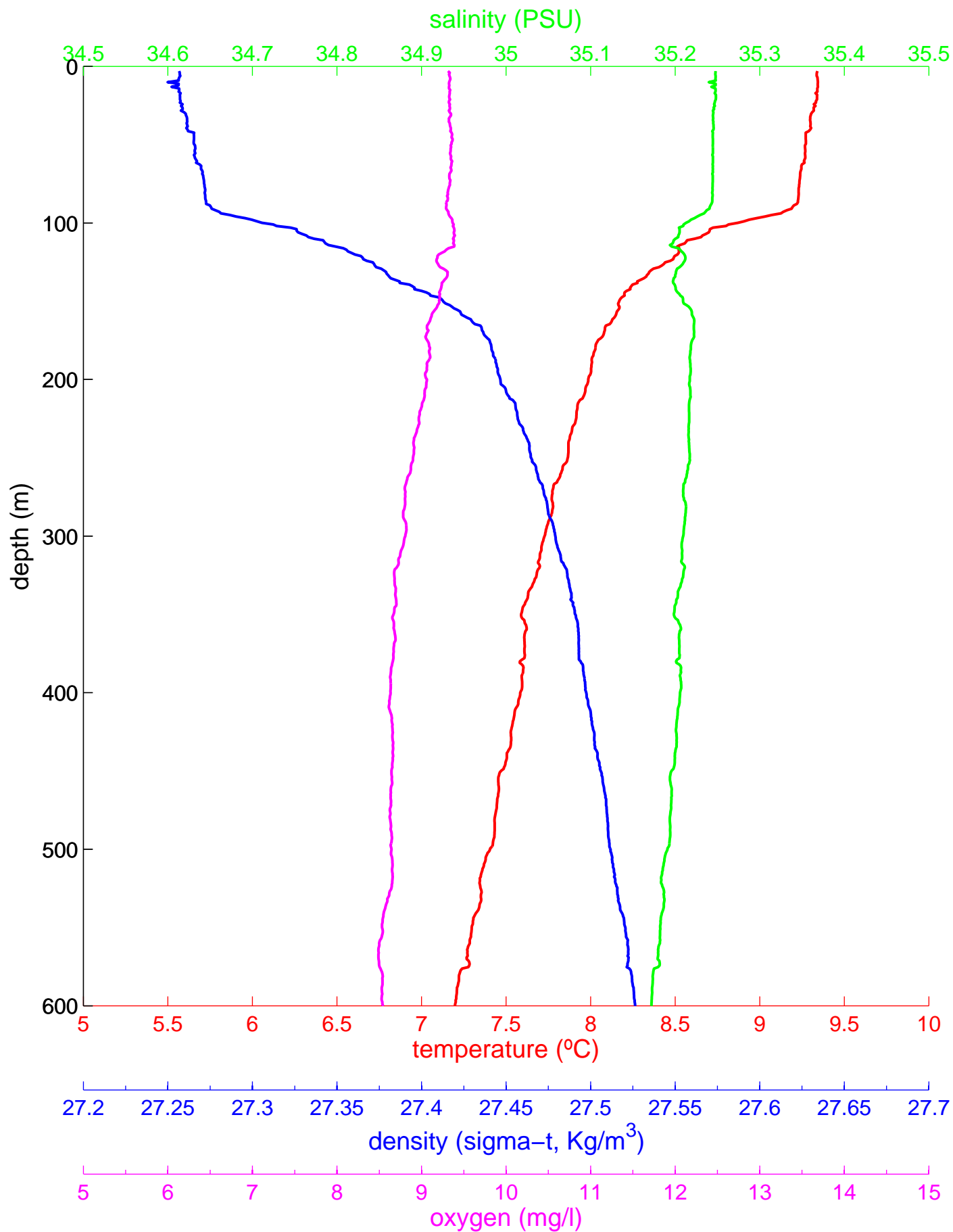
St: 120a Cast: 110 18-May-2008 22:49:39



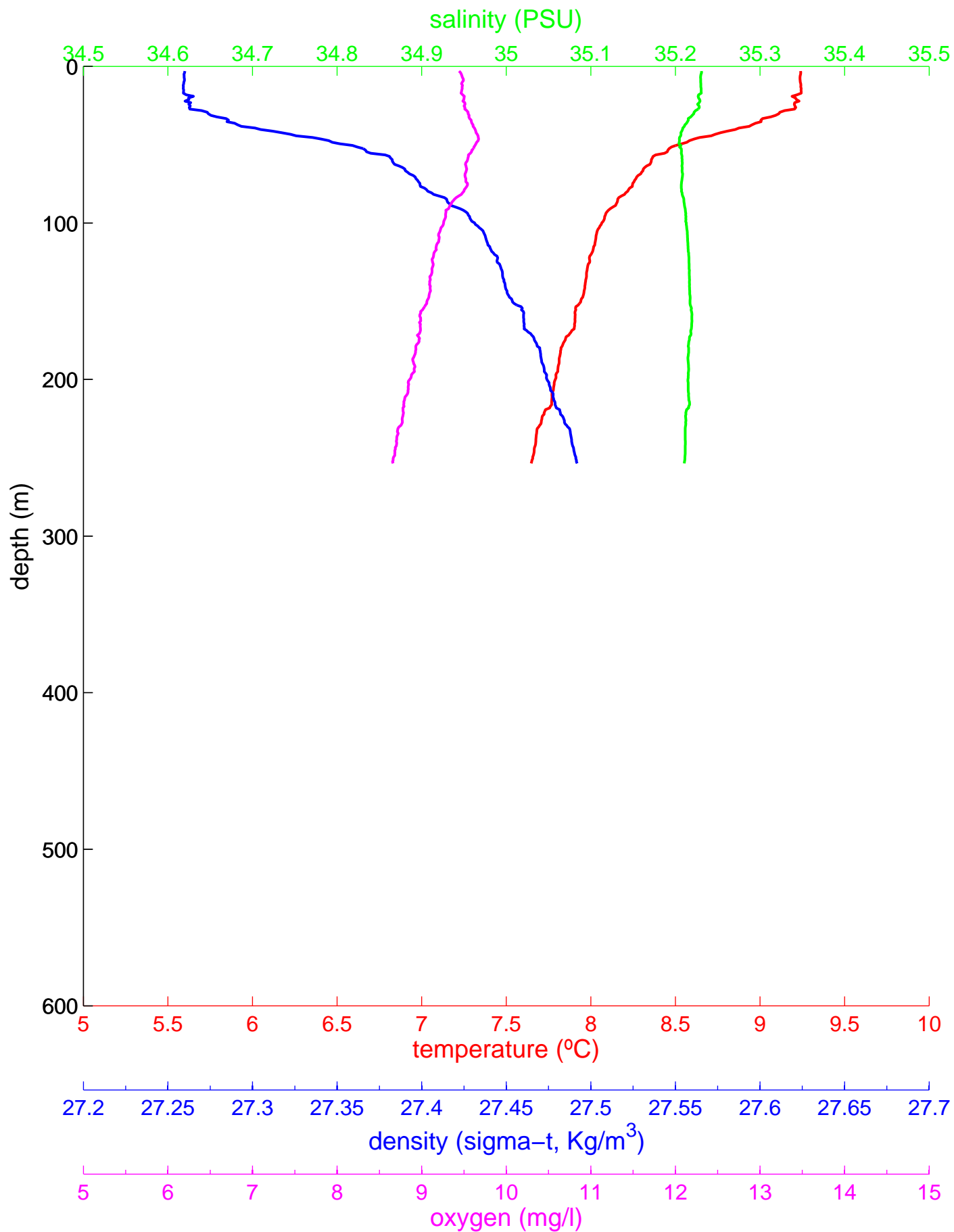
St: 121a Cast: 111 19-May-2008 02:05:37



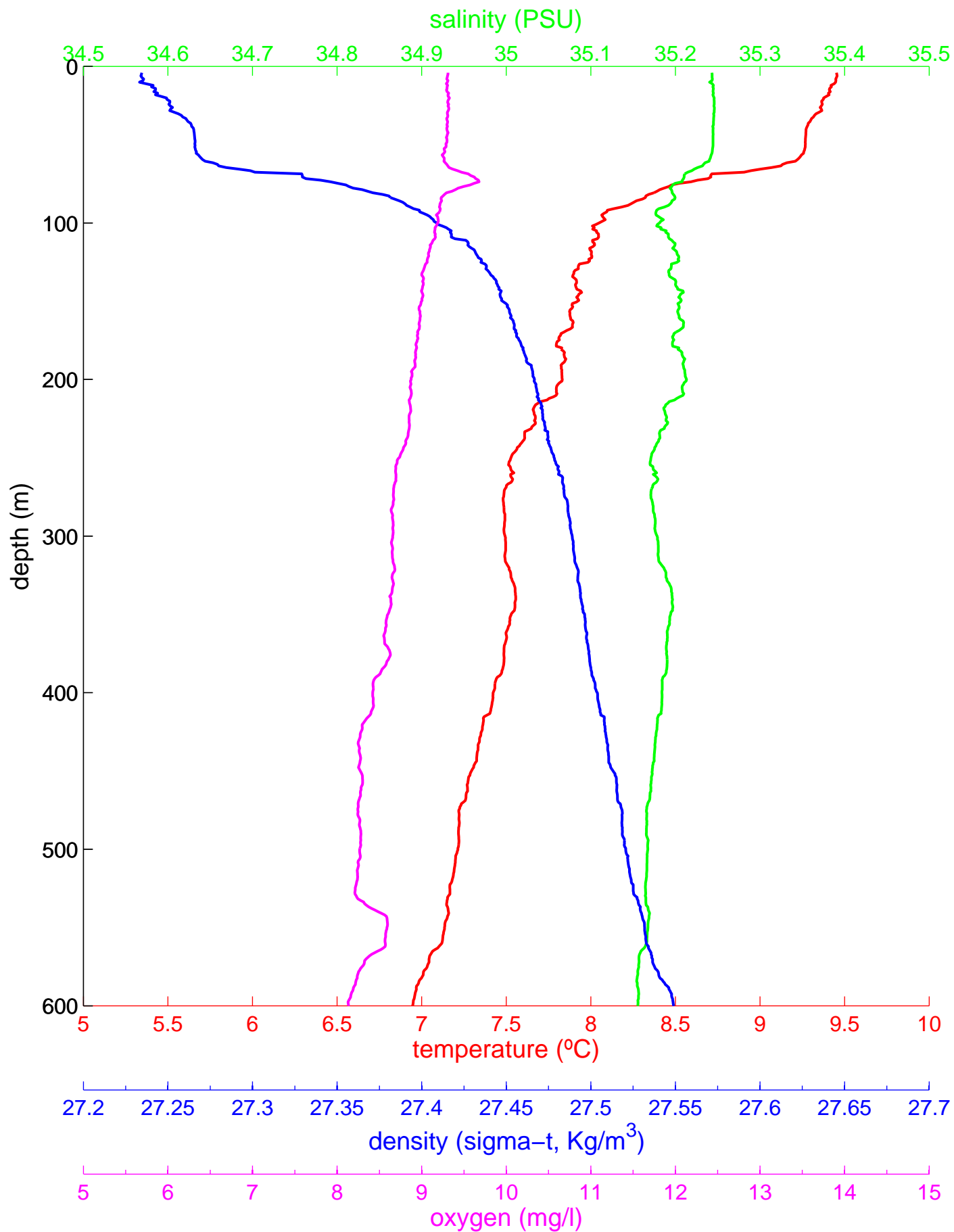
St: 122a Cast: 112 19-May-2008 03:22:38



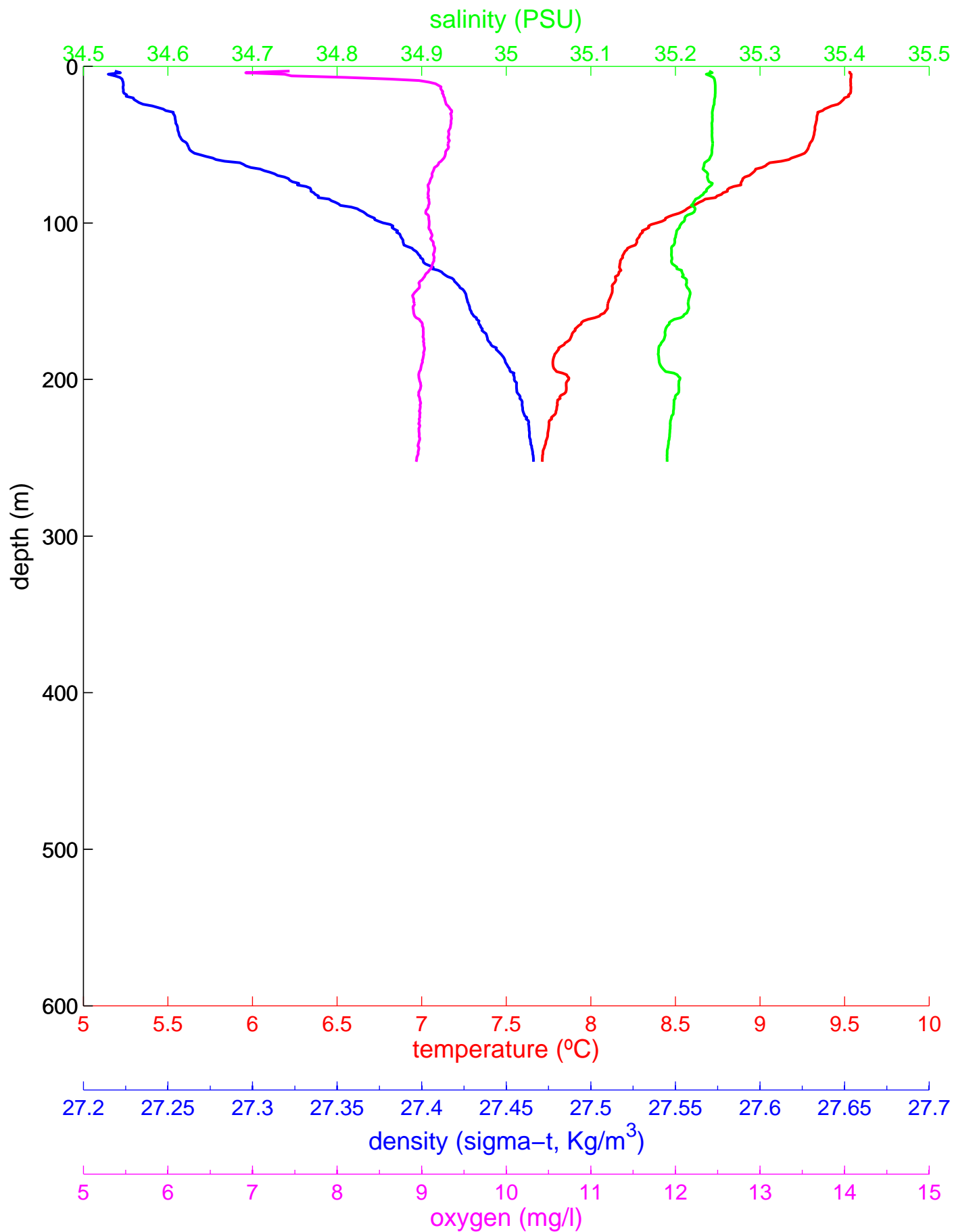
St: 123a Cast: 113 19-May-2008 04:46:43



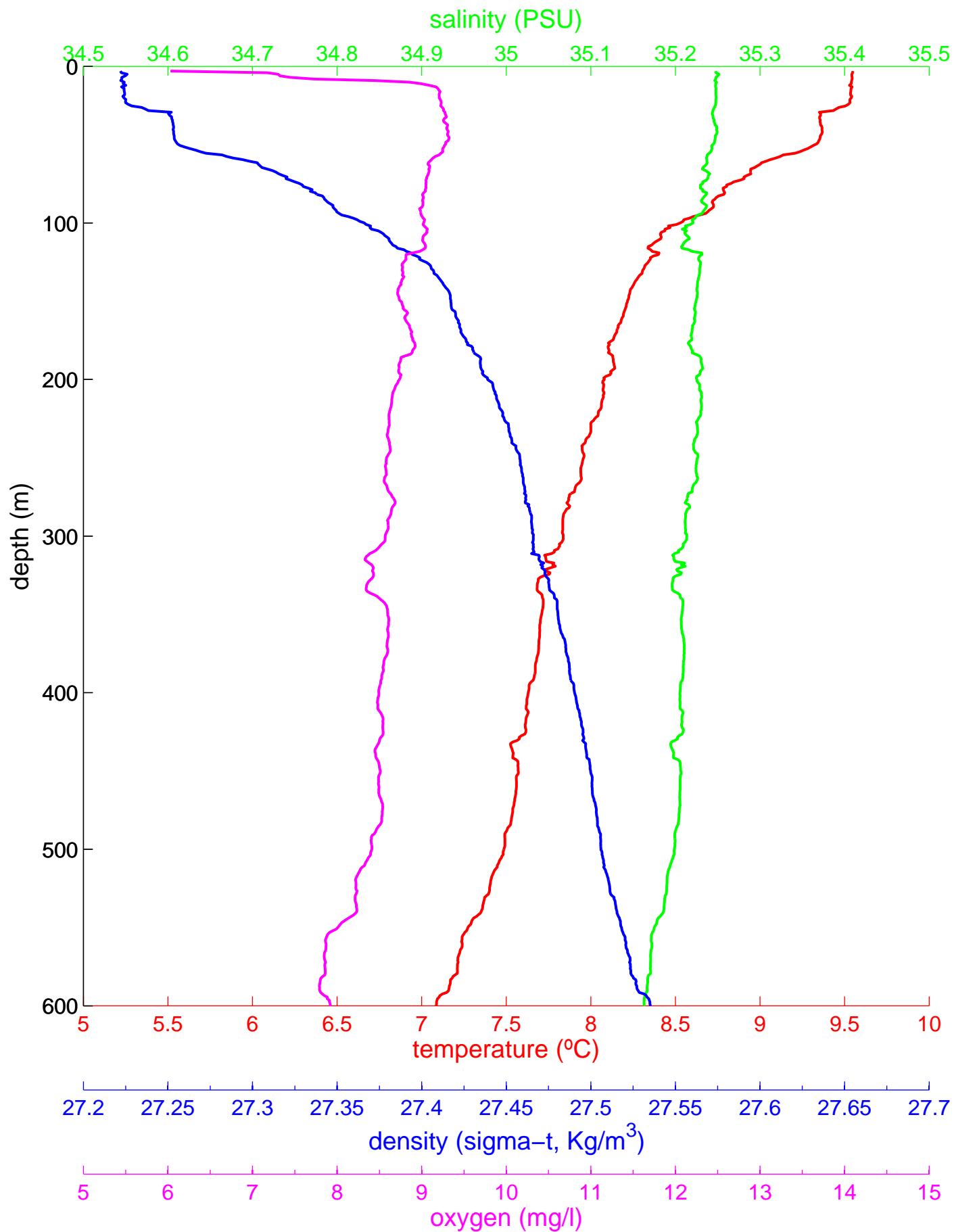
St: 124a Cast: 114 19-May-2008 05:48:17



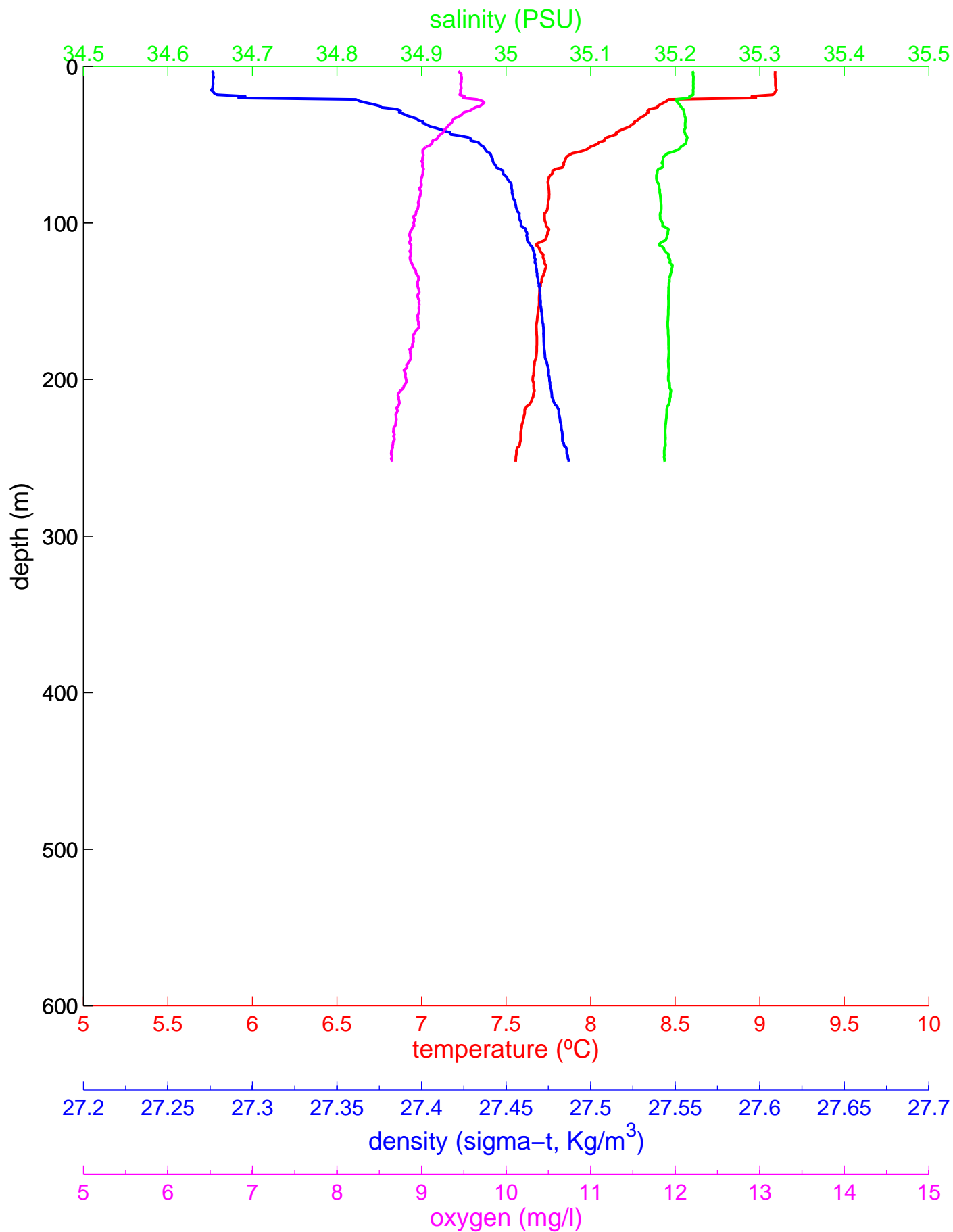
St: 125a Cast: 115 19-May-2008 07:20:16



St: 126a Cast: 116 19-May-2008 08:26:34

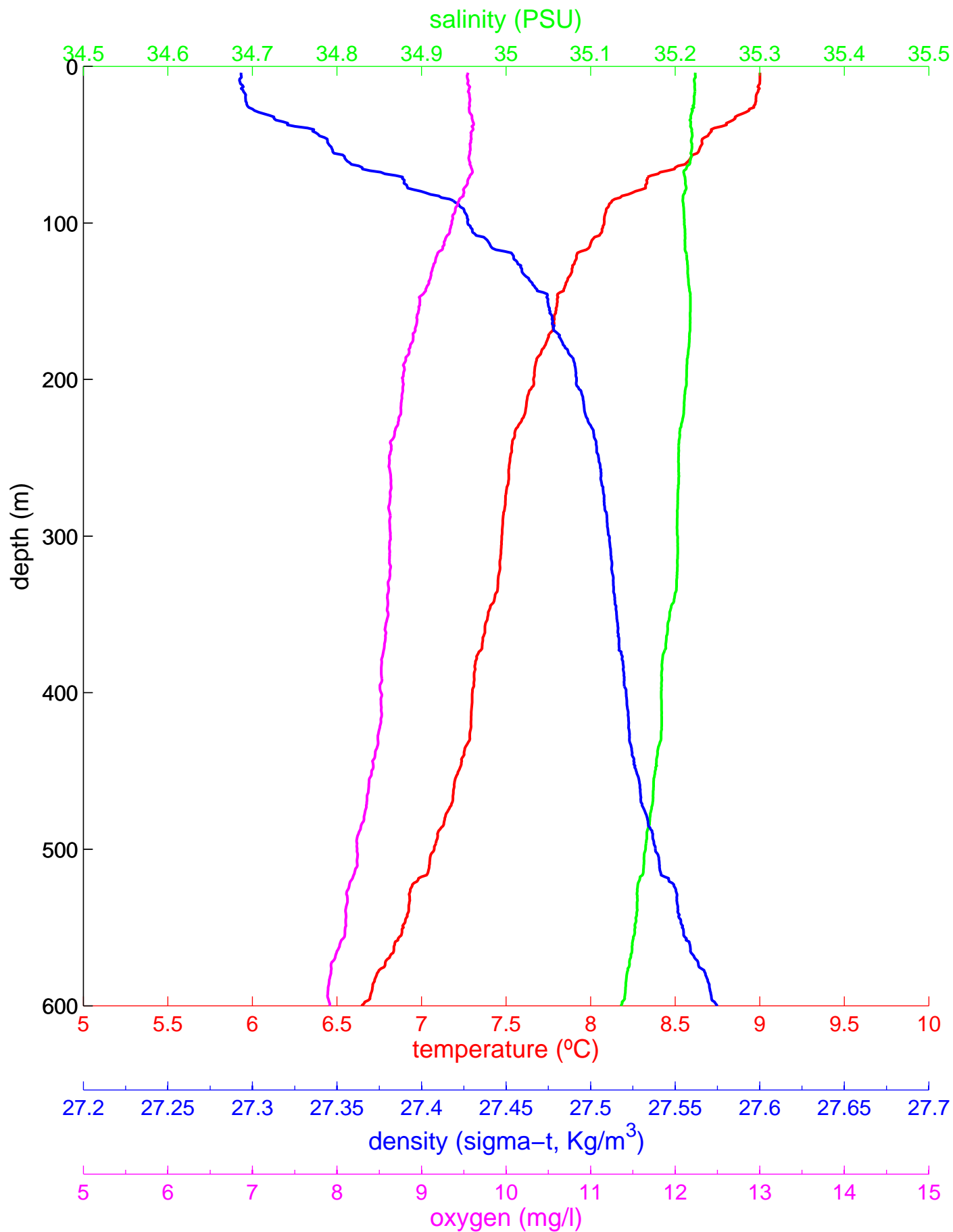


St: 127a Cast: 117 19-May-2008 10:04:26

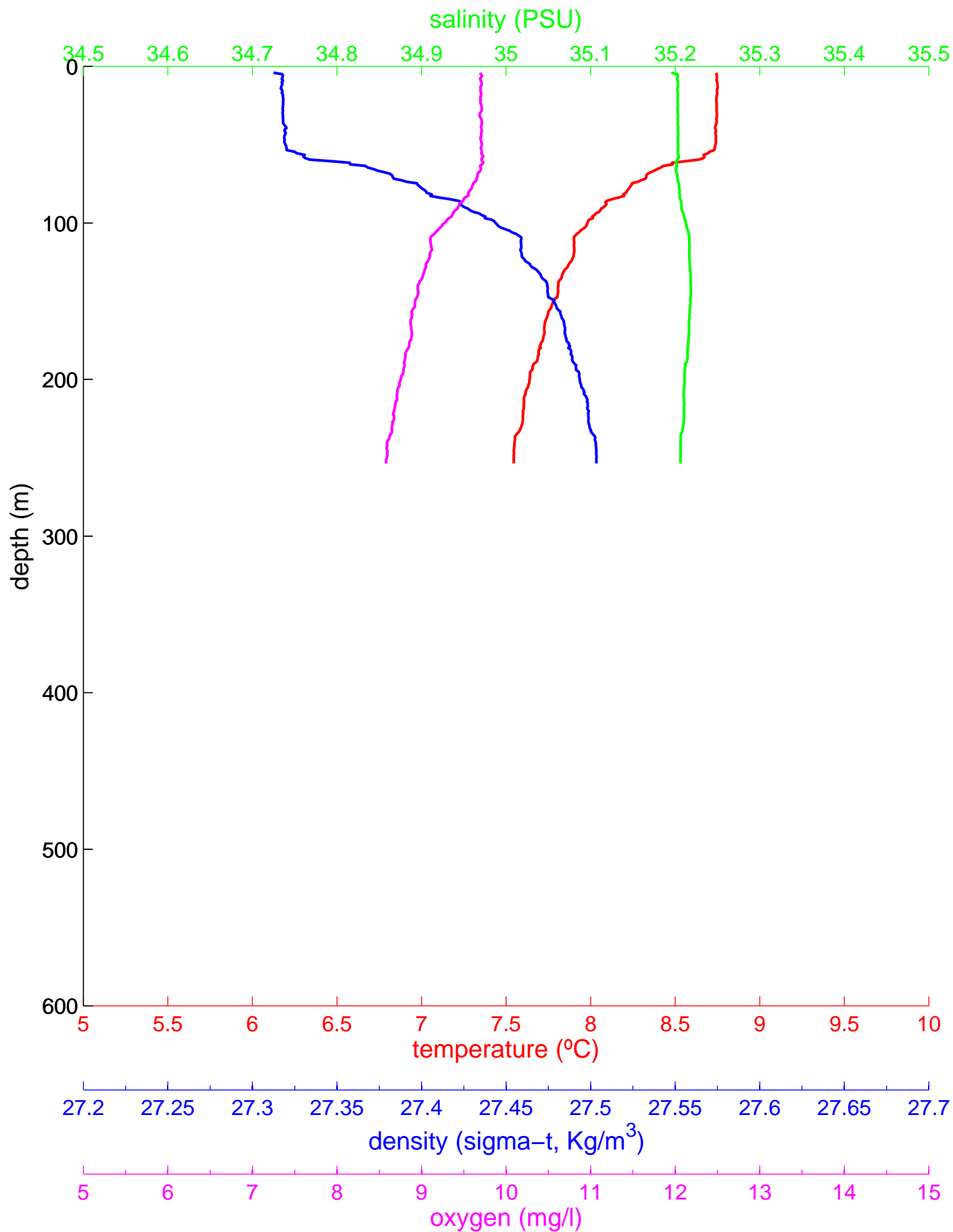




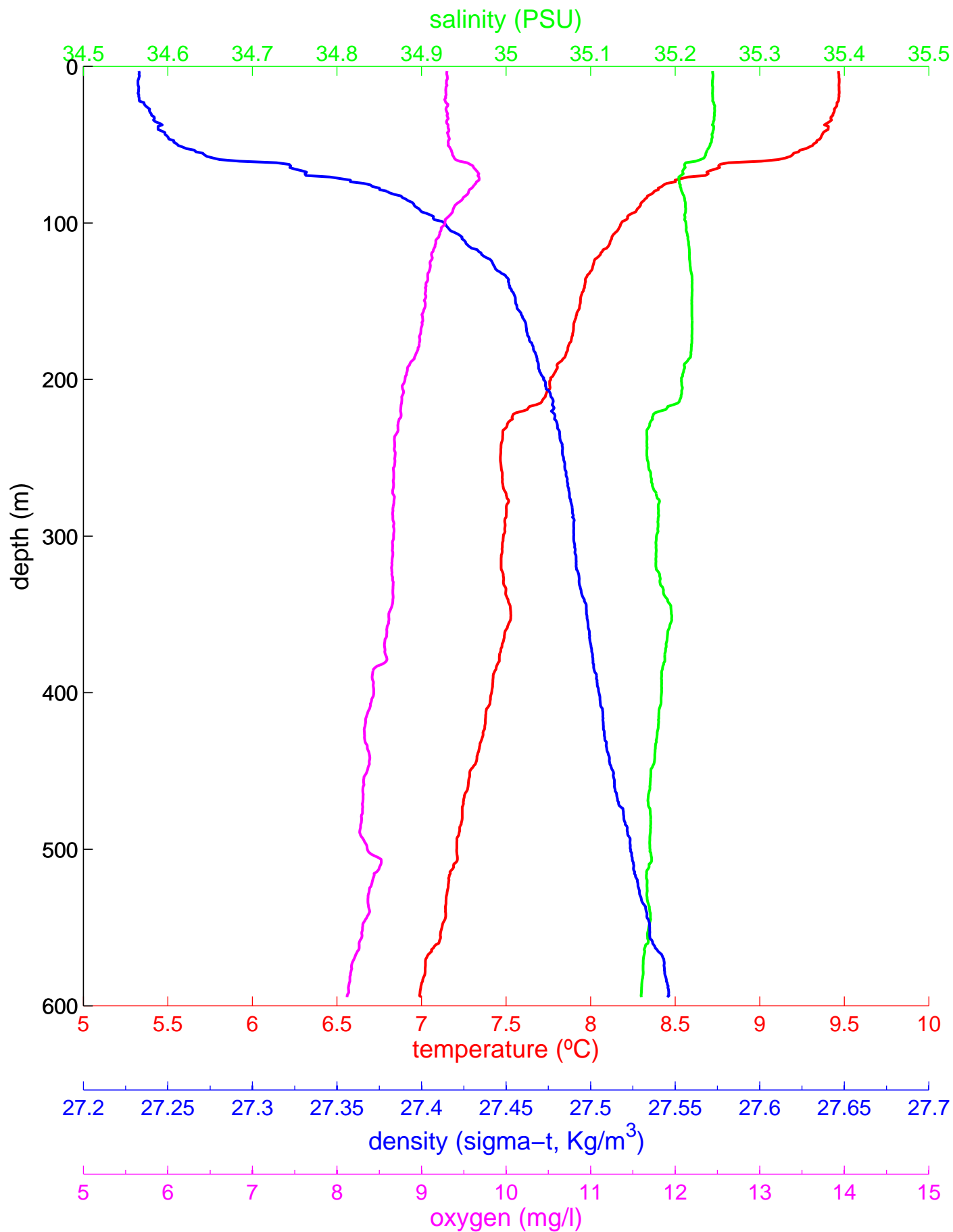
St: 128a Cast: 118 19-May-2008 11:24:51



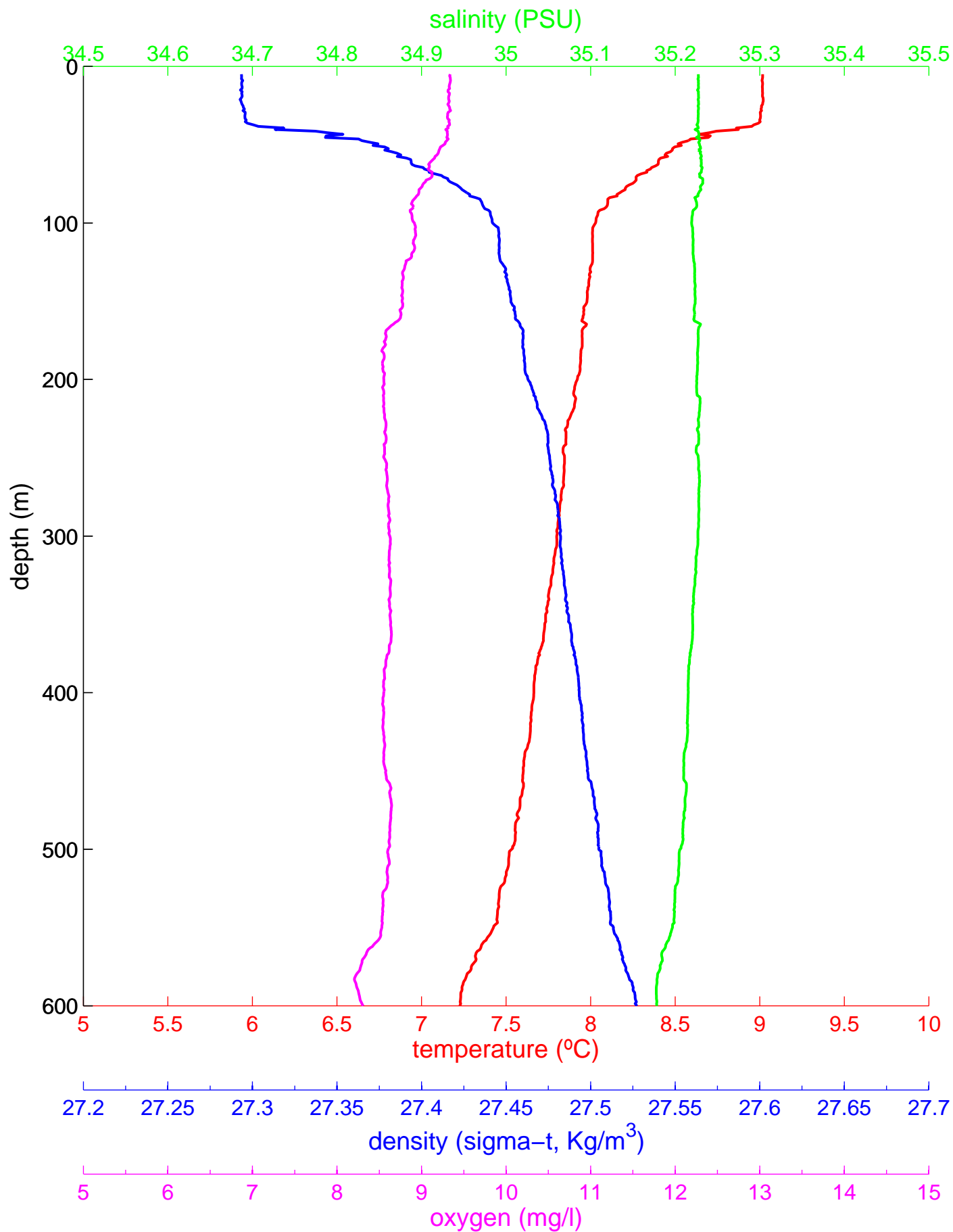
St: 129a Cast: 119 19-May-2008 16:15:53



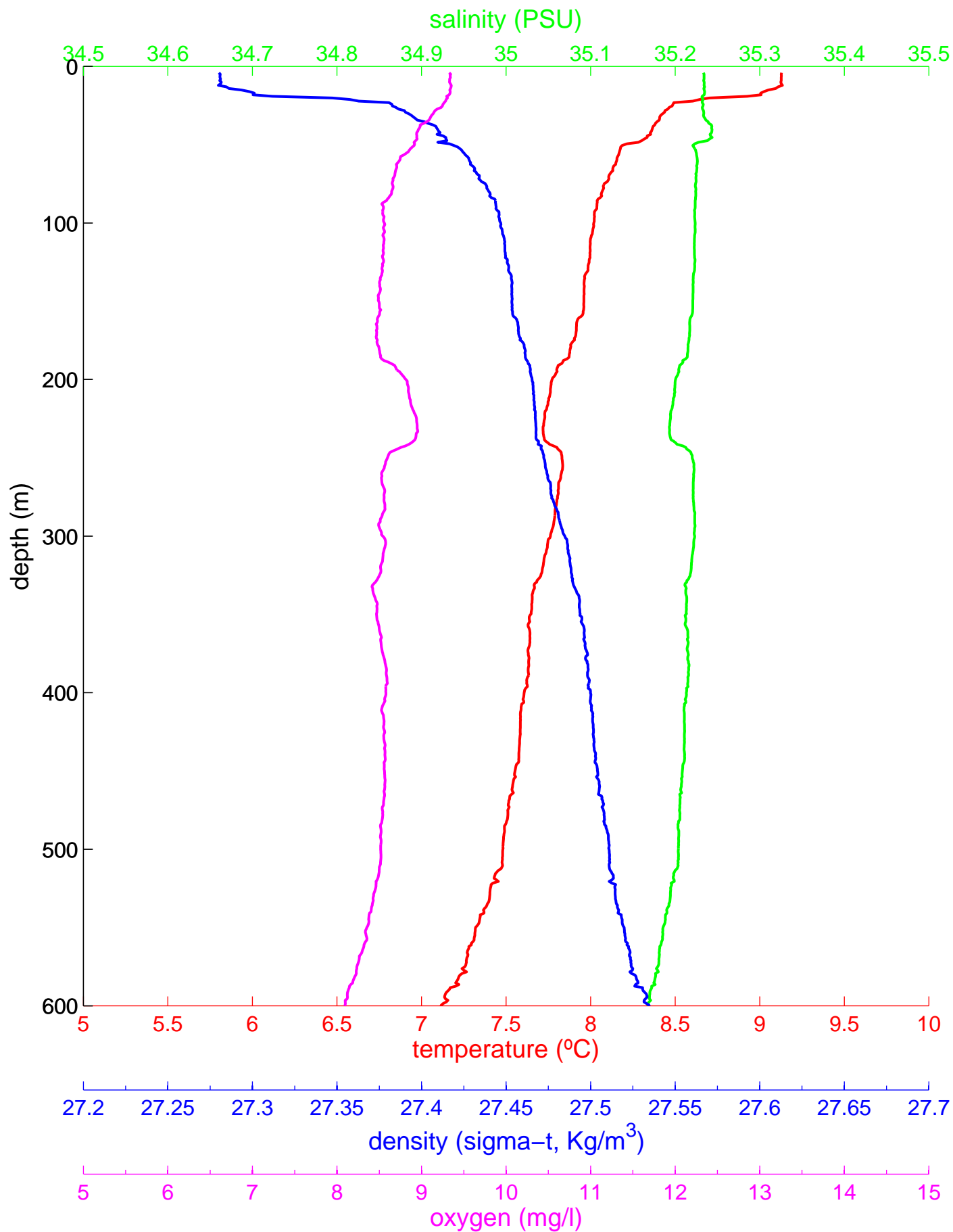
St: 130a Cast: 120 19-May-2008 17:40:15



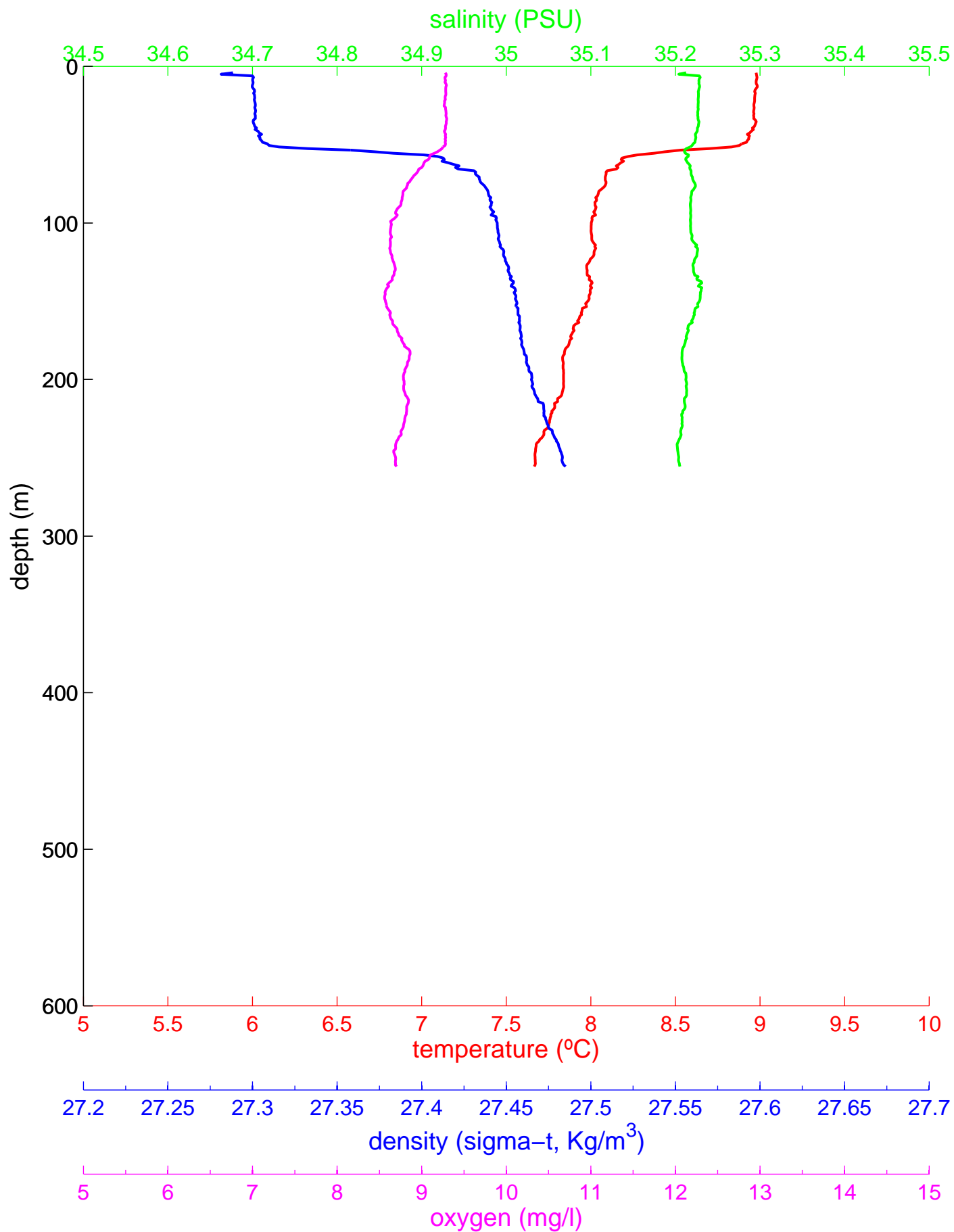
St: 141a Cast: 121 20-May-2008 13:03:34



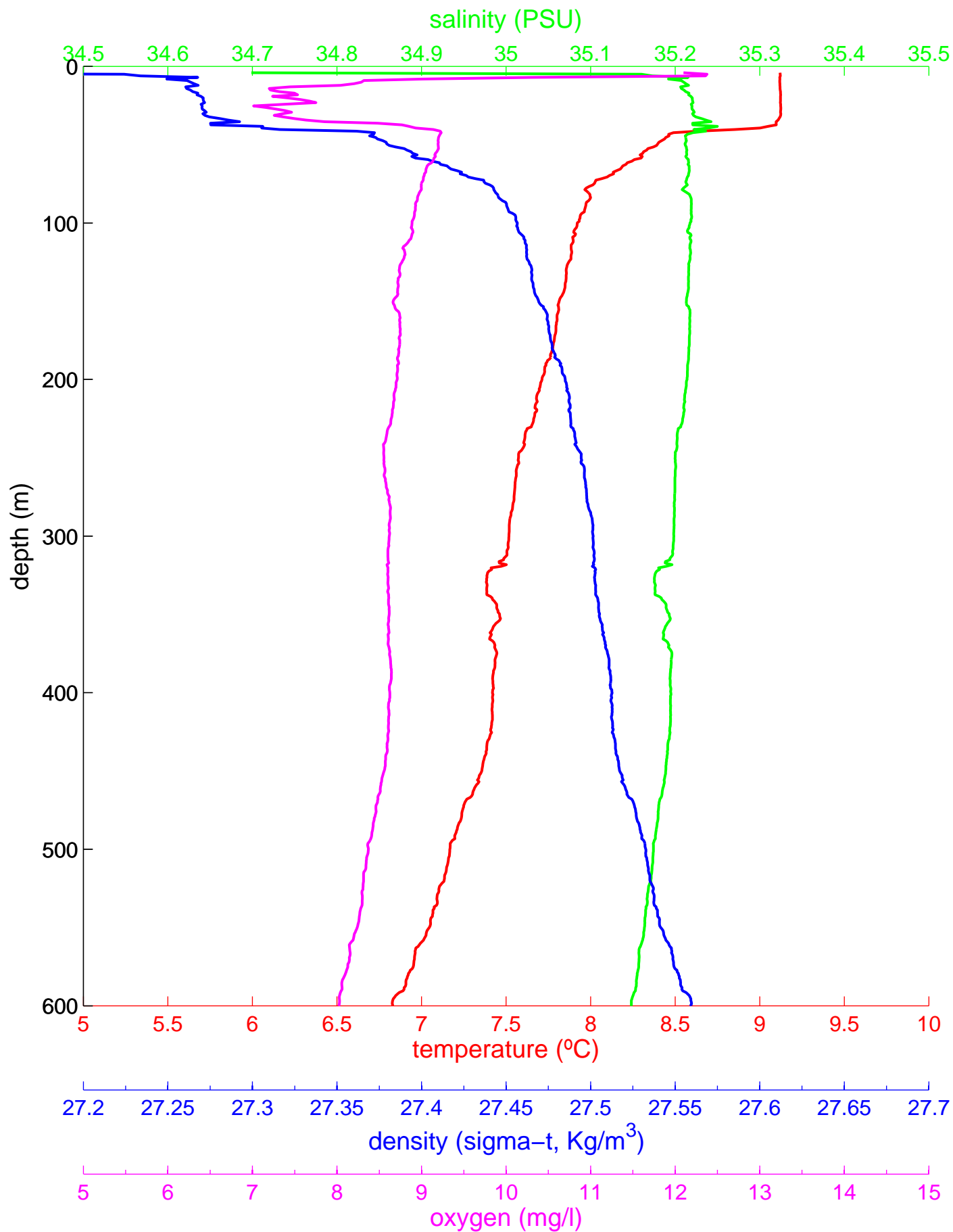
St: 142a Cast: 122 20-May-2008 17:27:51



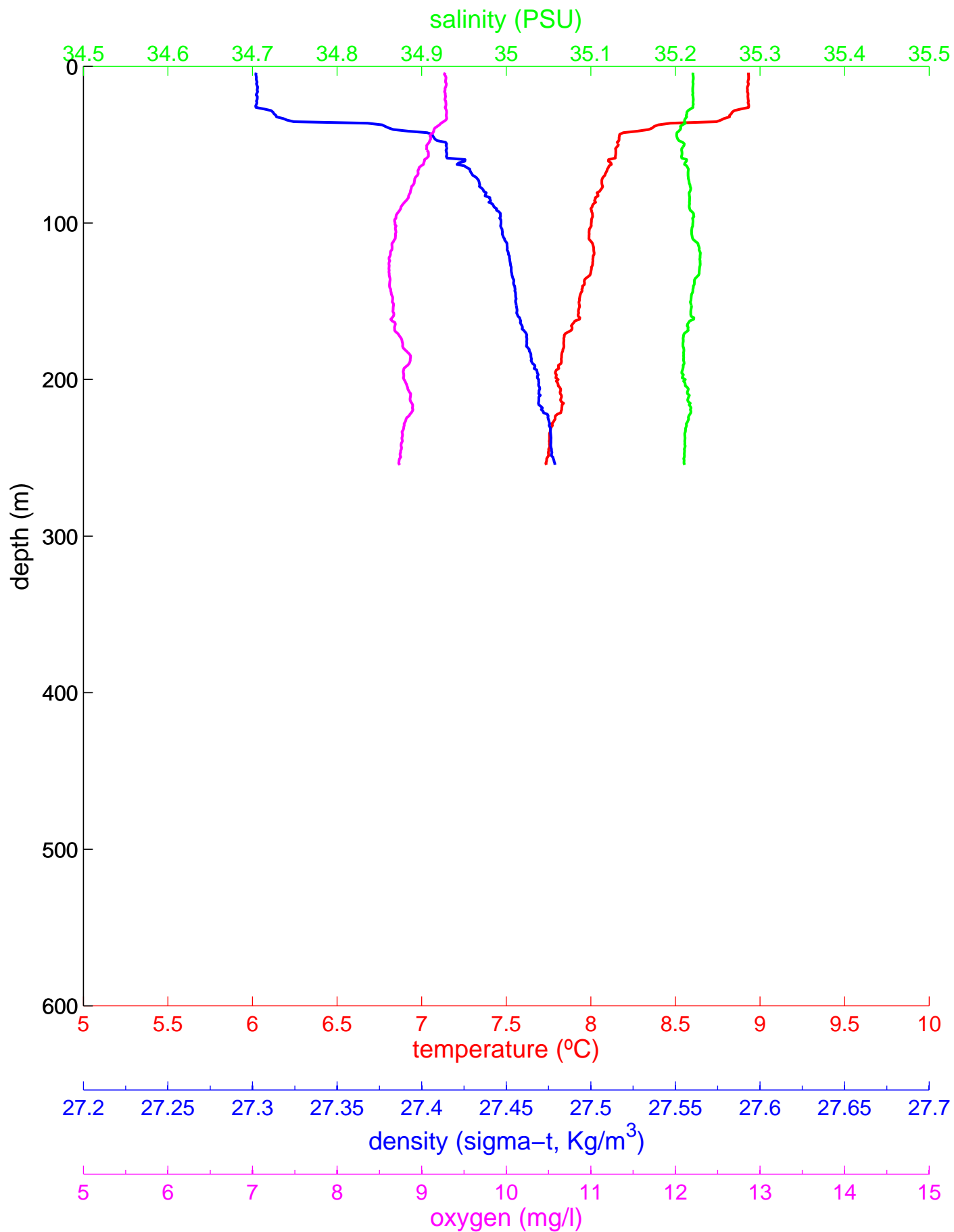
St: 143a Cast: 123 20-May-2008 21:56:02



St: 144a Cast: 124 20-May-2008 23:20:28

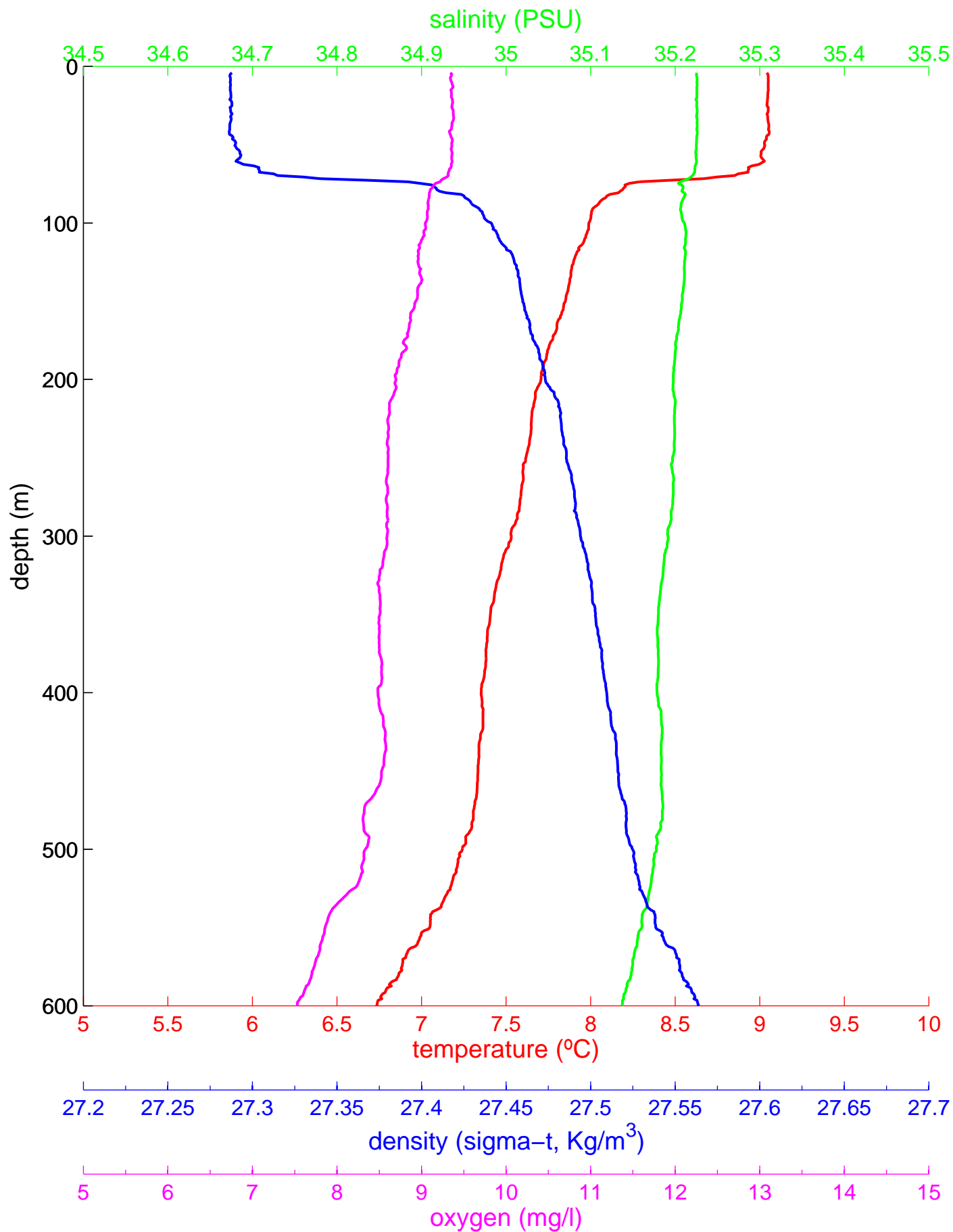


St: 145a Cast: 125 21-May-2008 01:56:33

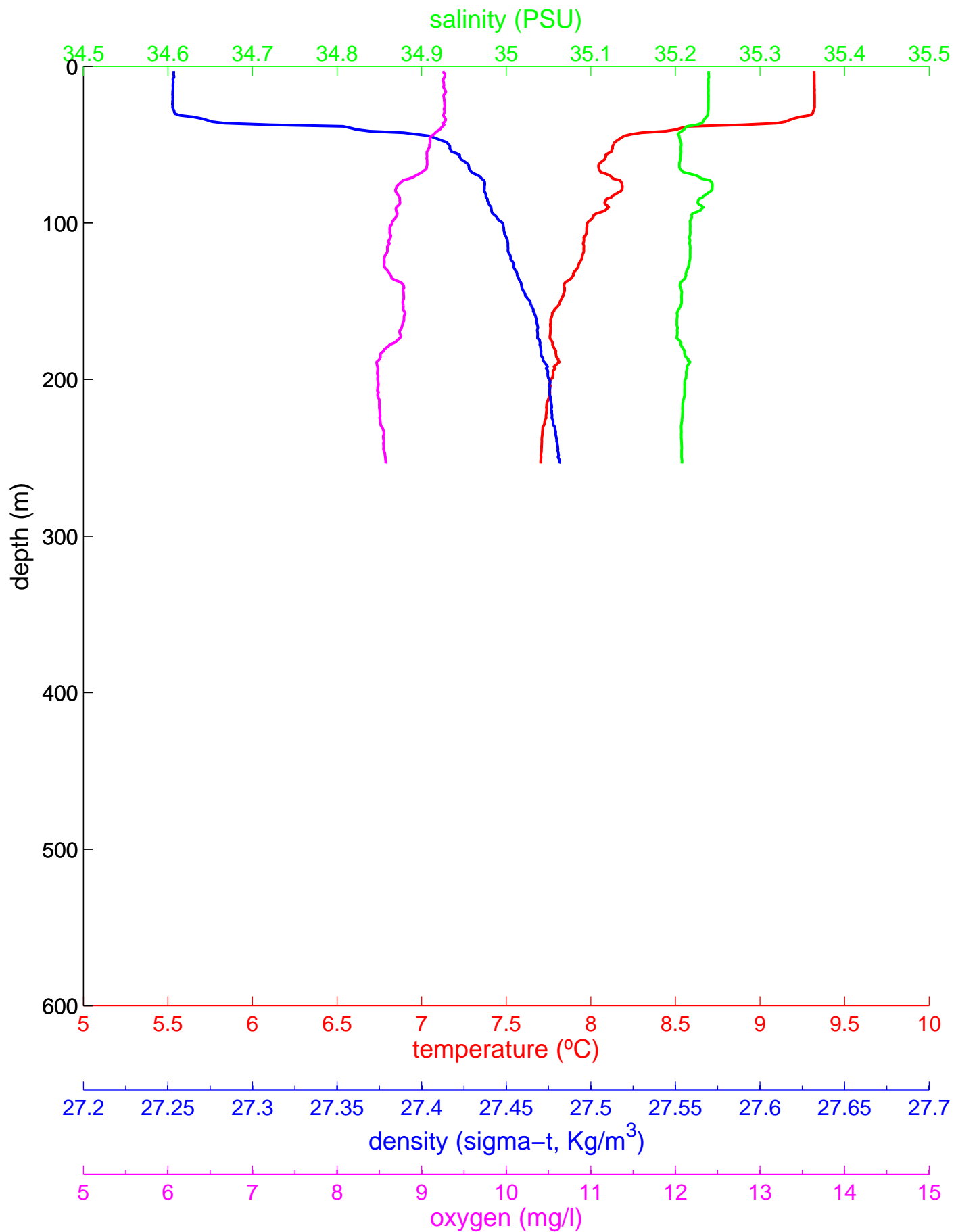




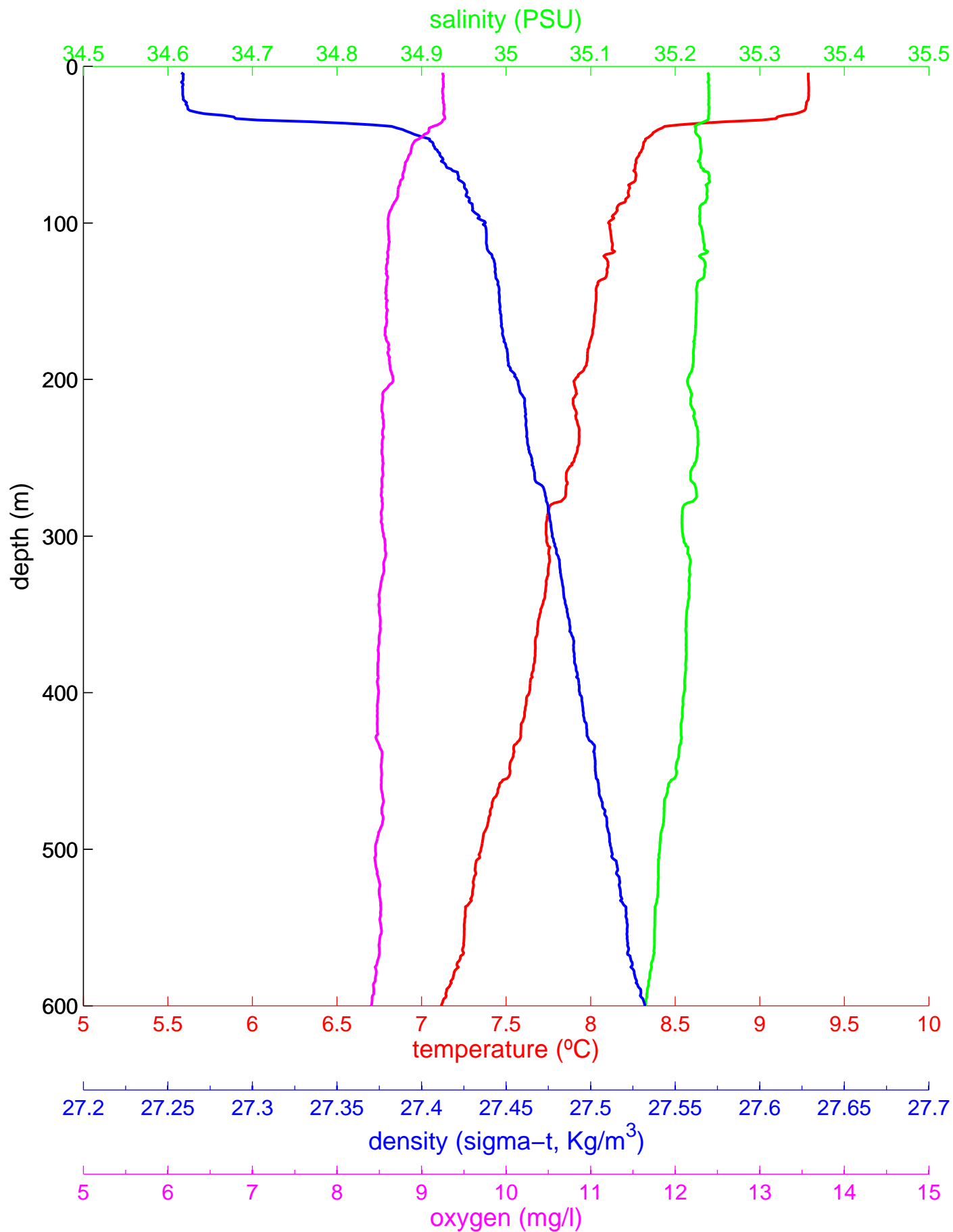
St: 146a Cast: 126 21-May-2008 03:15:55



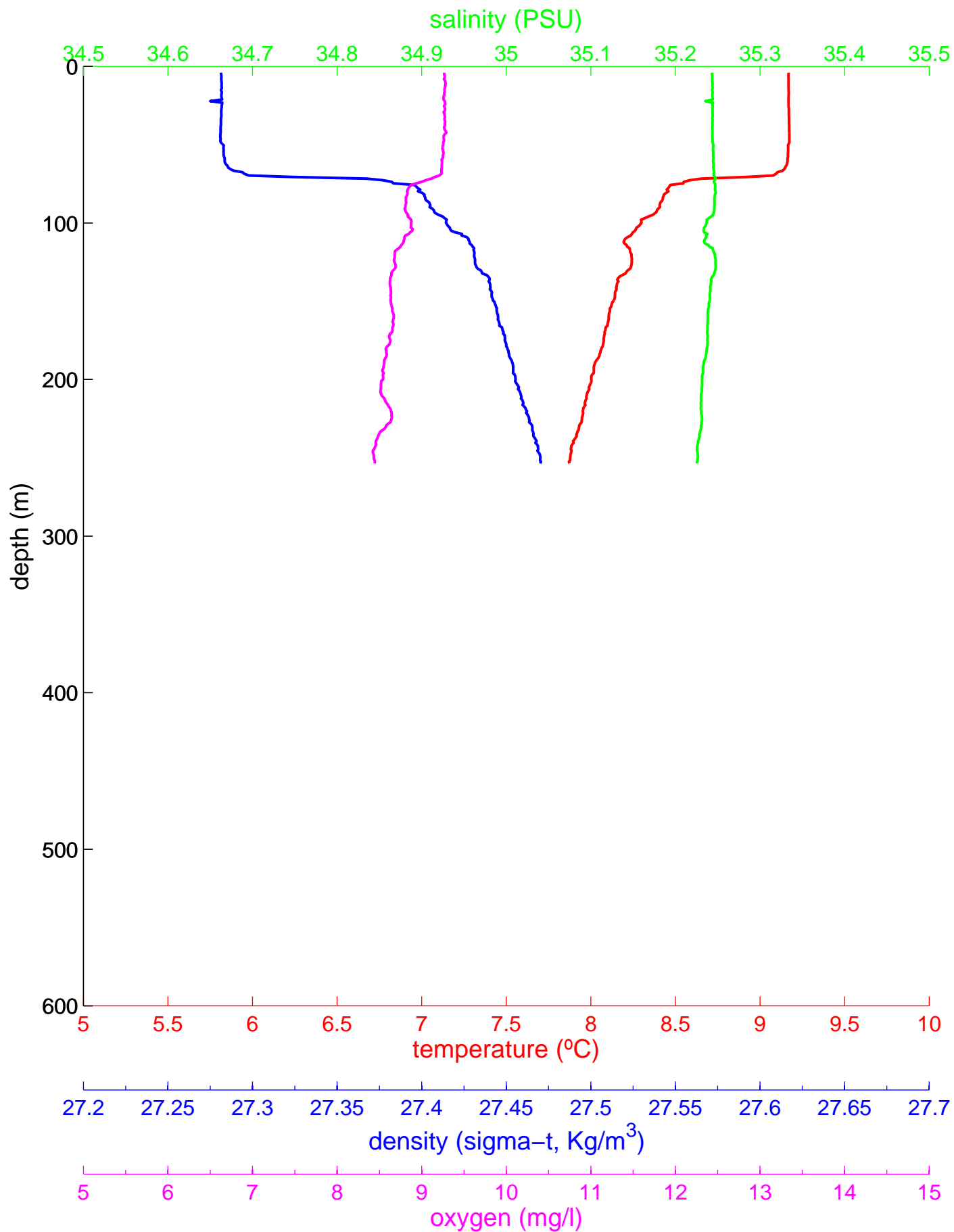
St: 147a Cast: 127 21-May-2008 04:30:25



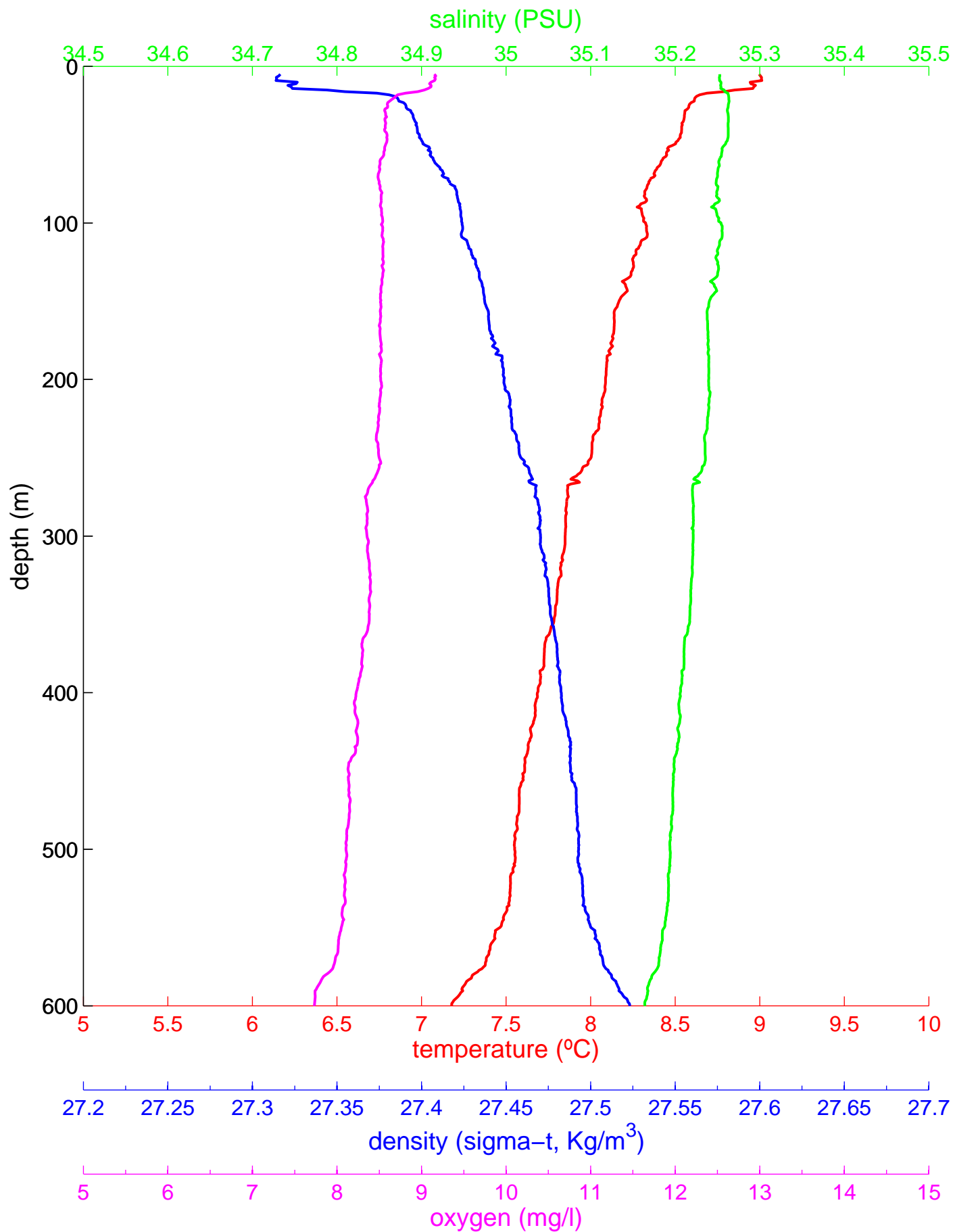
St: 148a Cast: 128 21-May-2008 05:36:00



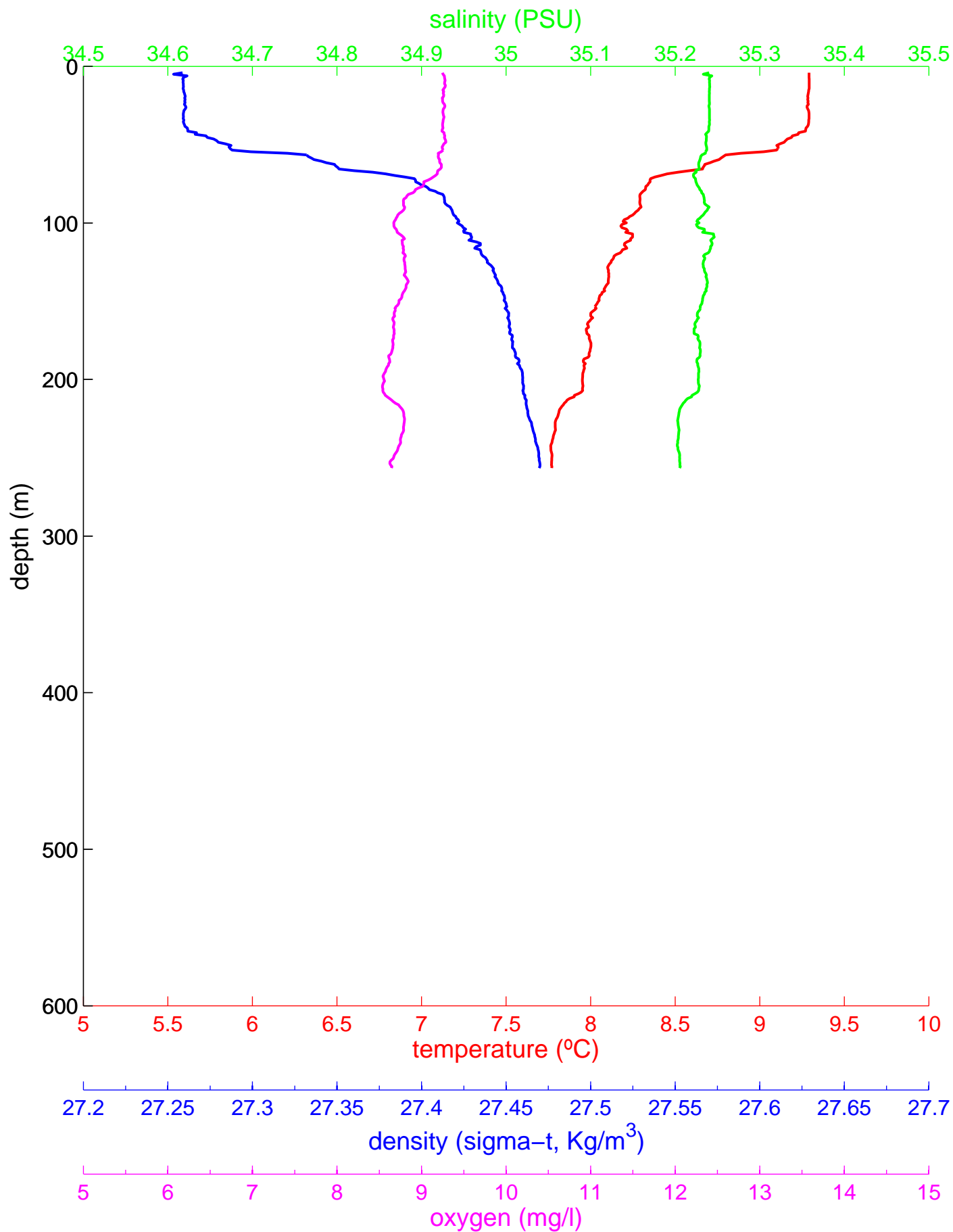
St: 148a Cast: 129 21-May-2008 06:57:34



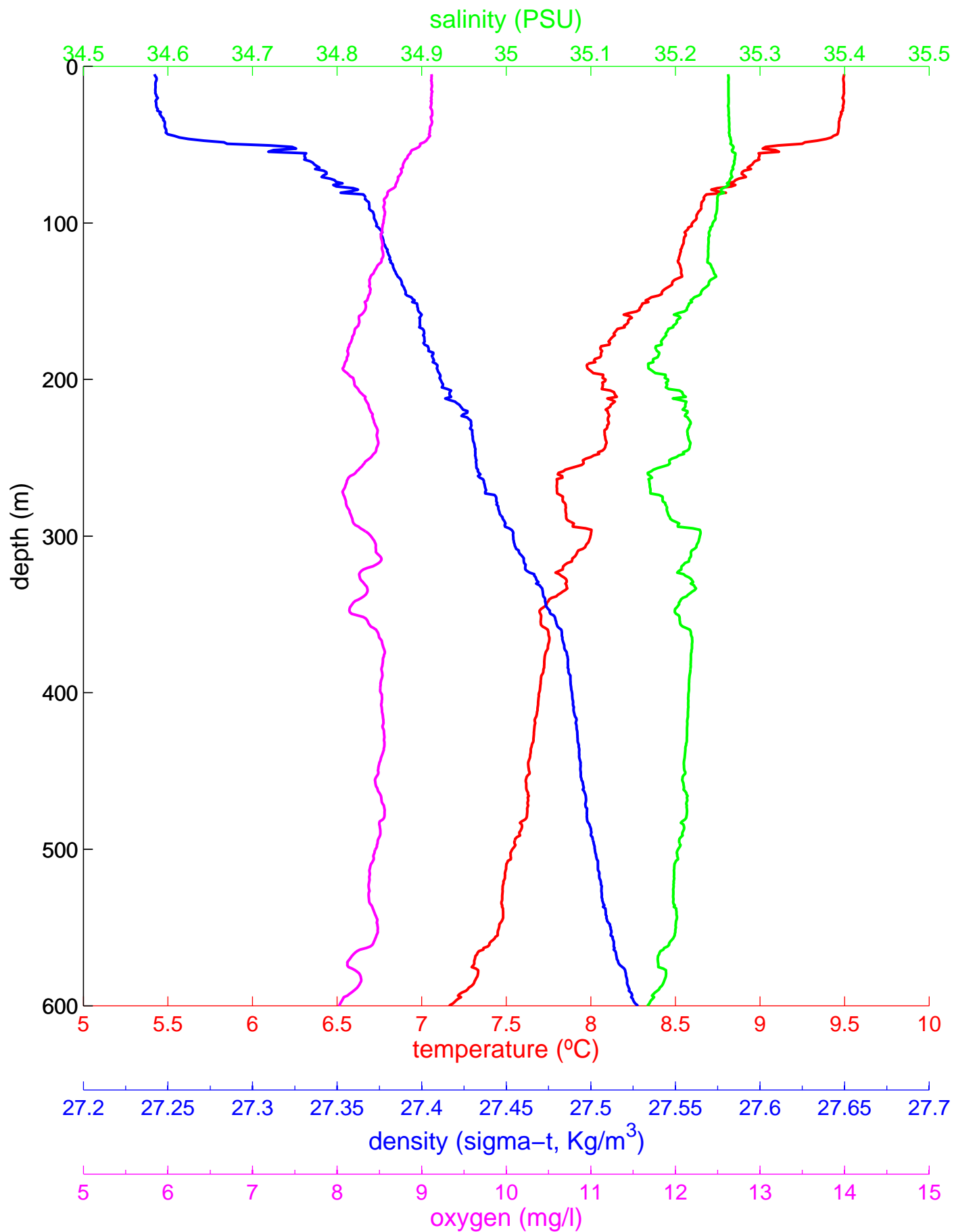
St: 150a Cast: 130 21-May-2008 08:09:16



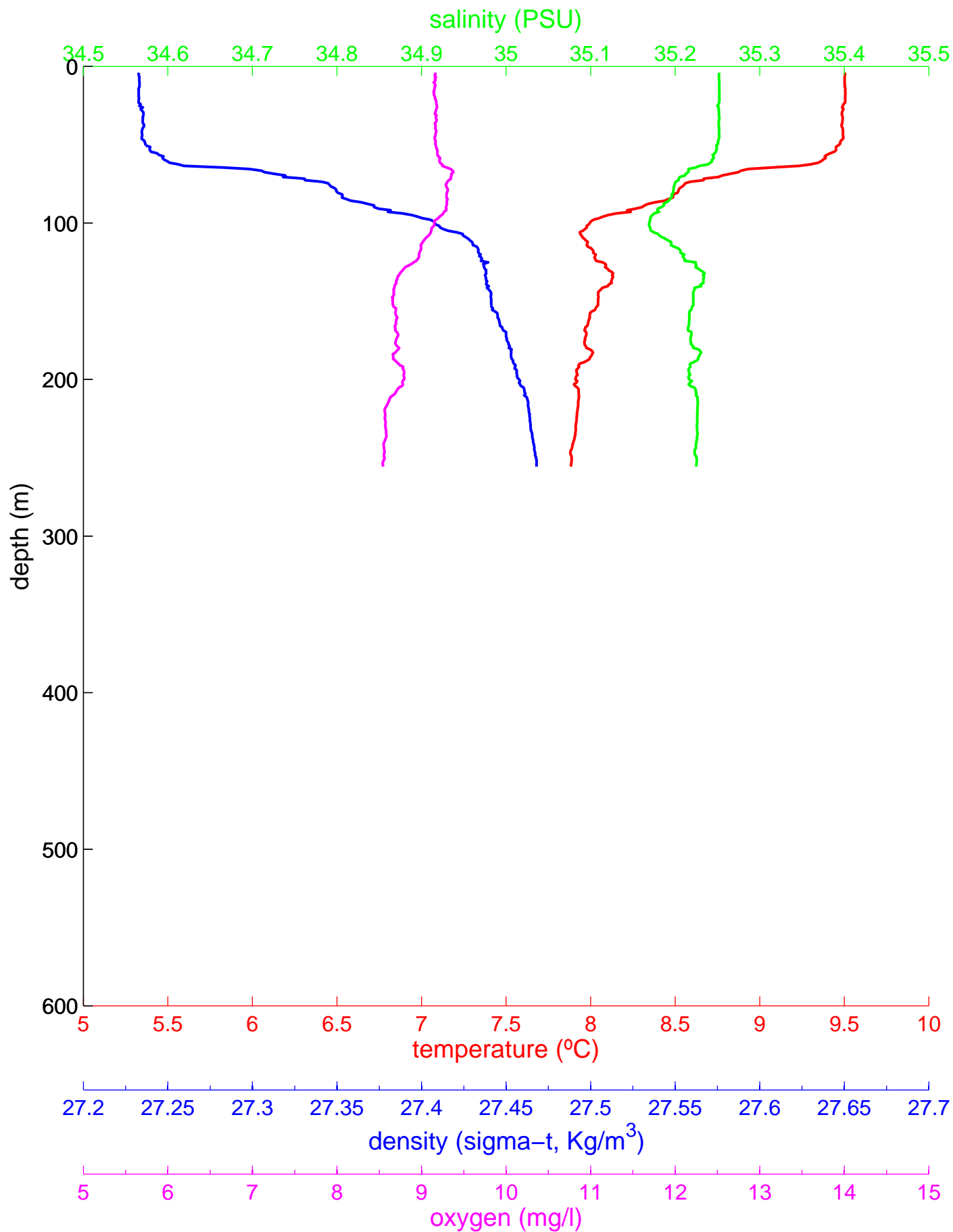
St: 151a Cast: 131 21-May-2008 09:47:54



St: 152a Cast: 132 21-May-2008 11:26:42

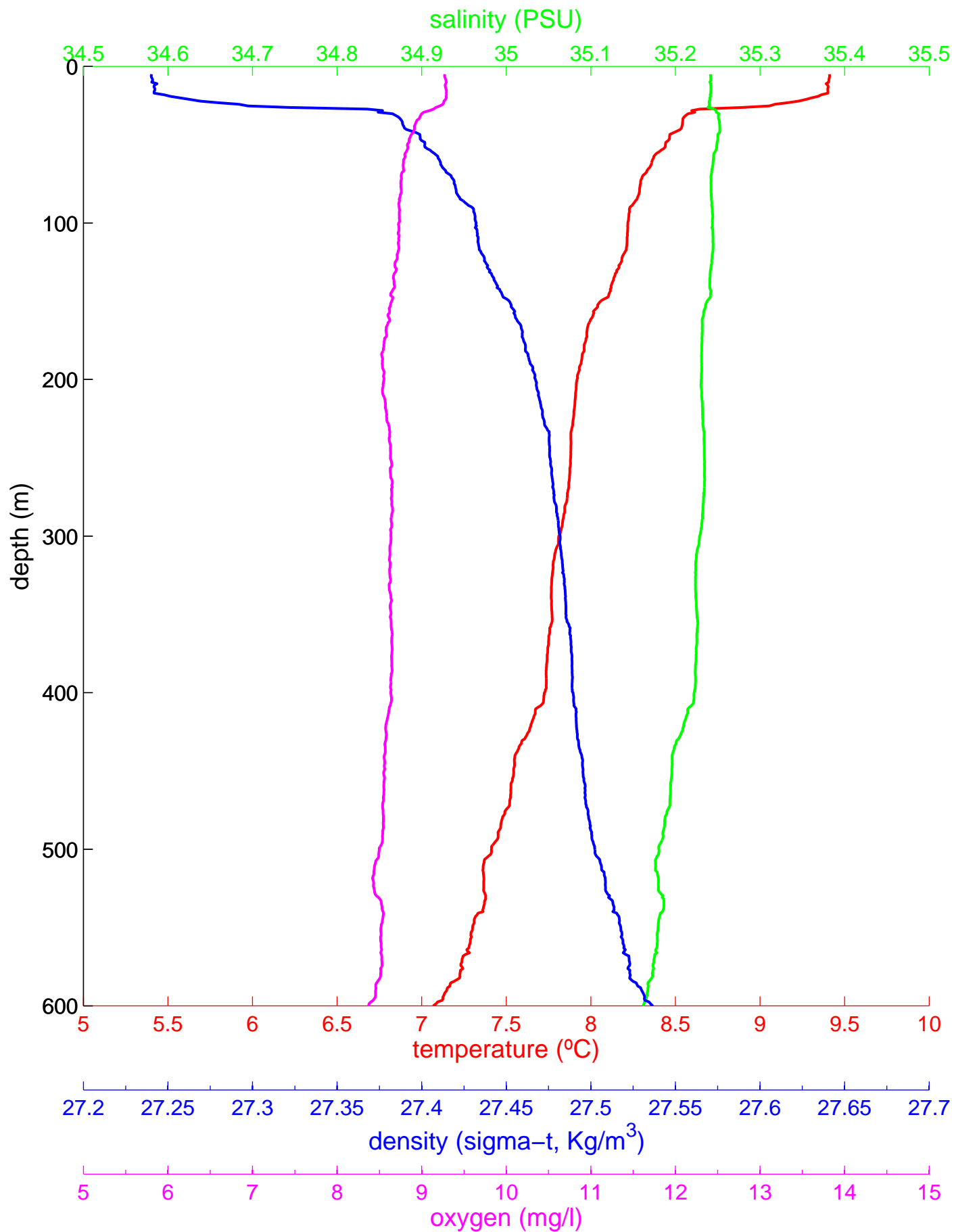


St: 153a Cast: 133 21-May-2008 12:58:00





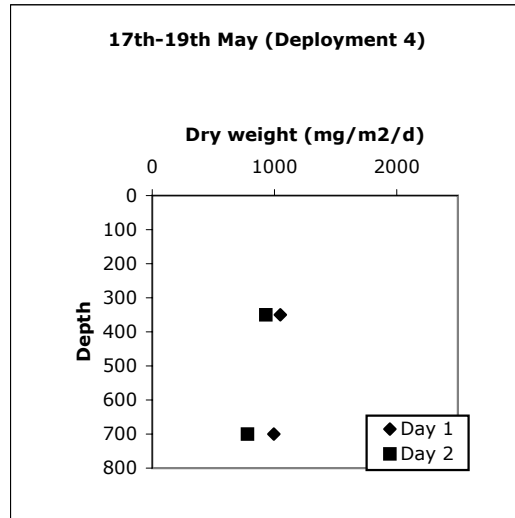
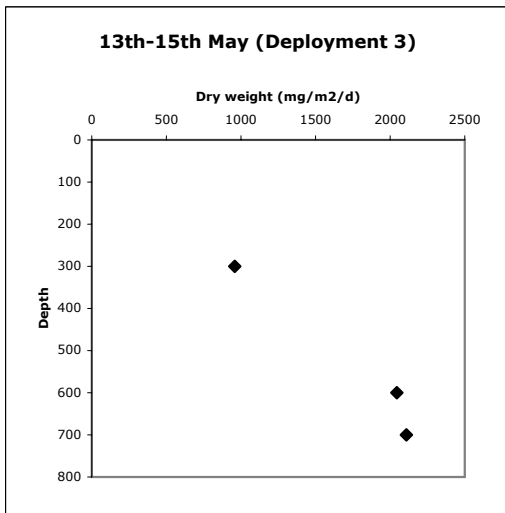
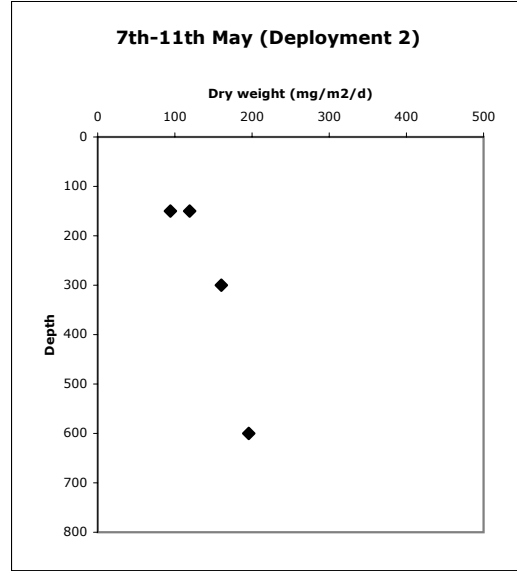
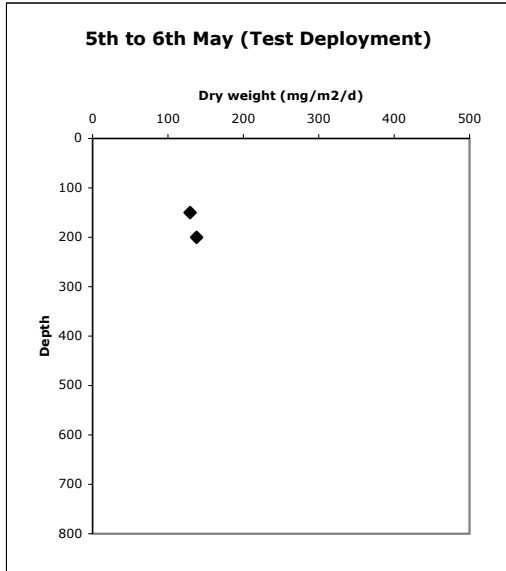
St: 154a Cast: 134 21-May-2008 14:10:14



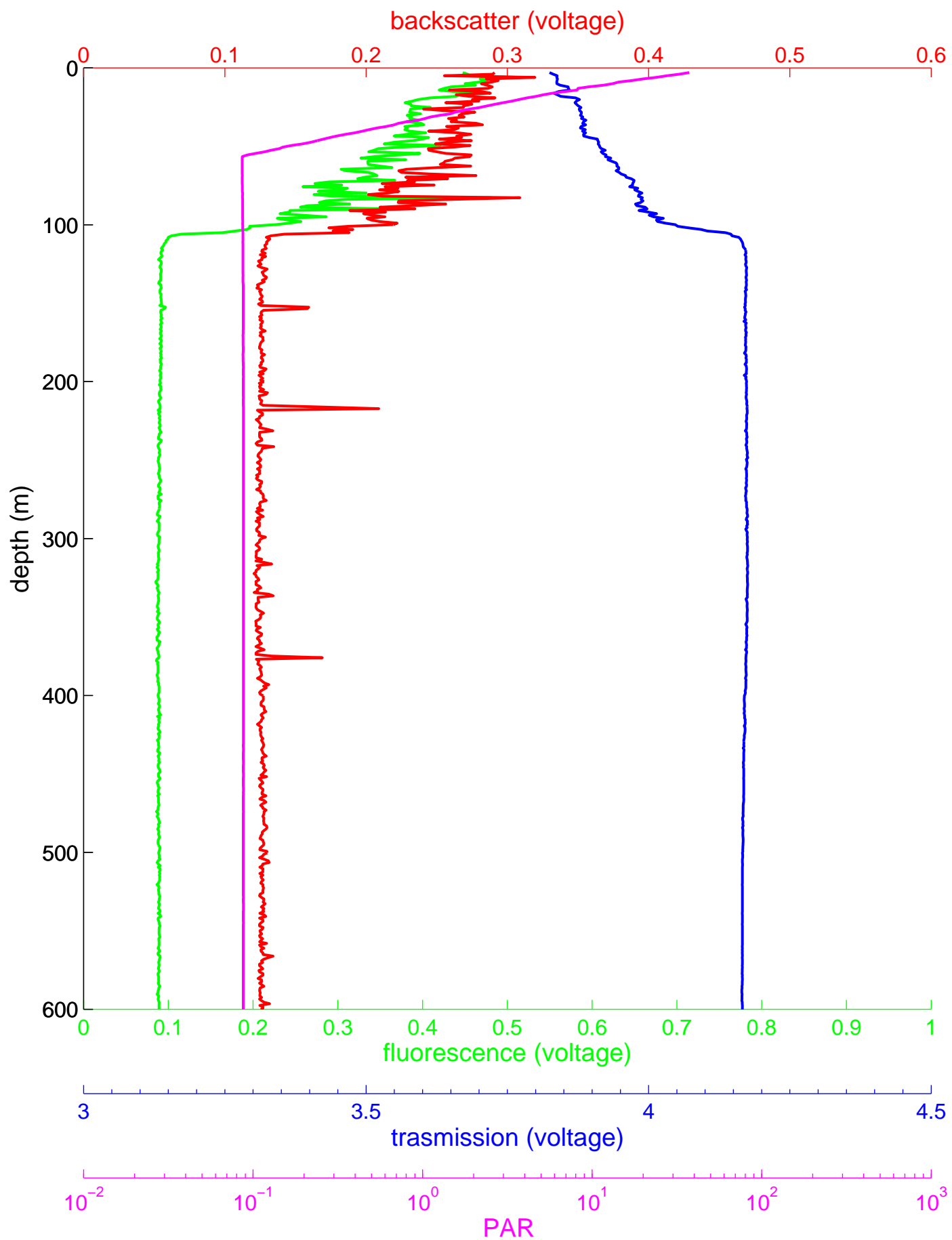
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-22 May 2008							Fs =	0,3767			
#2007-099							Fo/Fa max	1,84063700			
Analysis	Vol. Filtr.	Tube	Station	CTD bottle #	Nom. Depth	Dilution	Fo	Fa	Chl	Phaeo	
Filtr. Date	Date	[L]	#	ID	[m]	Factor	[FSU]	[FSU]	[ug/L]	[ug/L]	
08.12.02	08.12.02	0,066	1	Example		0,5	1	4,35	2,33	<b>0,13</b>	<b>-0,01</b>
05.02.08	04.04.08	0,282	1	1c	3	300	1	5,41	4,49	<b>0,01</b>	<b>0,08</b>
05.02.08	04.04.08	0,286	2	1c	4	200	1	9,65	6,79	<b>0,04</b>	<b>0,08</b>
05.02.08	04.04.08	0,282	3	1c	5	150	1	9,80	7,03	<b>0,04</b>	<b>0,09</b>
05.02.08	04.04.08	0,283	4	1c	6	100	1	56,40	32,70	<b>0,35</b>	<b>0,11</b>
05.02.08	04.04.08	0,288	5	1c	8	75	1	276,00	157,00	<b>1,70</b>	<b>0,37</b>
05.02.08	04.04.08	0,289	6	1c	9	50	1	347,00	201,00	<b>2,08</b>	<b>0,66</b>
05.02.08	04.04.08	0,282	7	1c	10	30	1	354,00	203,00	<b>2,21</b>	<b>0,57</b>
05.02.08	04.04.08	0,28	8	1c	11	20	1	393,00	224,00	<b>2,49</b>	<b>0,57</b>
05.02.08	04.04.08	0,288	9	1c	14	10	1	406,00	231,00	<b>2,51</b>	<b>0,55</b>
05.02.08	04.04.08	0,286	10	1c	14	10	1	394,00	225,00	<b>2,44</b>	<b>0,58</b>
05.02.08	04.04.08	0,287	11	1c	14	10	1	383,00	218,00	<b>2,37</b>	<b>0,52</b>
05.02.08	04.04.08	0,278	12	1c	19	5	1	385,00	219,00	<b>2,46</b>	<b>0,54</b>
05.04.08	05.05.08	0,282	13	3a	3	300	1	7,09	5,33	<b>0,03</b>	<b>0,08</b>
05.04.08	05.05.08	0,286	14	3a	4	200	1	8,50	6,32	<b>0,03</b>	<b>0,09</b>
05.04.08	05.05.08	0,282	15	3a	5	150	1	6,97	5,21	<b>0,03</b>	<b>0,08</b>
05.04.08	05.05.08	0,283	16	3a	6	100	1	314,00	175,00	<b>2,03</b>	<b>0,24</b>
05.04.08	05.05.08	0,288	17	3a	8	75	1	335,00	187,00	<b>2,12</b>	<b>0,26</b>
05.04.08	05.05.08	0,289	18	3a	9	50	1	336,00	190,00	<b>2,08</b>	<b>0,39</b>
05.04.08	05.05.08	0,282	19	3a	11	30	1	369,00	202,00	<b>2,44</b>	<b>0,08</b>
05.04.08	05.05.08	0,28	20	3a	13	20	1	341,00	191,00	<b>2,21</b>	<b>0,31</b>
05.04.08	05.05.08	0,288	21	3a	18	10	1	306,00	175,00	<b>1,88</b>	<b>0,46</b>
05.04.08	05.05.08	0,278	22	3a	18	10	1	324,00	185,00	<b>2,06</b>	<b>0,49</b>
05.04.08	05.05.08	0,287	23	3a	18	10	1	312,00	180,00	<b>1,90</b>	<b>0,56</b>
05.04.08	05.05.08	0,286	24	3a	22	5	1	326,00	182,00	<b>2,08</b>	<b>0,26</b>
05.04.08	05.05.08	0,282	25	4a	3	300	1	10,50	7,84	<b>0,04</b>	<b>0,11</b>
05.04.08	05.05.08	0,286	26	4a	6	200	1	14,10	10,70	<b>0,05</b>	<b>0,16</b>
05.04.08	05.05.08	0,282	27	4a	7	150	1	23,70	16,00	<b>0,11</b>	<b>0,17</b>
05.04.08	05.05.08	0,283	28	4a	10	100	1	268,00	155,00	<b>1,65</b>	<b>0,50</b>
05.04.08	05.05.08	0,288	29	4a	11	75	1	333,00	188,00	<b>2,08</b>	<b>0,37</b>
05.04.08	05.05.08	0,289	30	4a	14	50	1	357,00	203,00	<b>2,20</b>	<b>0,48</b>
05.04.08	05.05.08	0,282	31	4a	15	30	1	315,00	181,00	<b>1,96</b>	<b>0,53</b>
05.04.08	05.05.08	0,28	32	4a	18	20	1	302,00	170,00	<b>1,94</b>	<b>0,32</b>
05.04.08	05.05.08	0,288	33	4a	19	10	1	313,00	176,00	<b>1,96</b>	<b>0,31</b>
05.04.08	05.05.08	0,286	34	4a	19	10	1	334,00	186,00	<b>2,13</b>	<b>0,24</b>
05.04.08	05.05.08	0,287	35	4a	19	10	1	294,00	169,00	<b>1,80</b>	<b>0,49</b>
05.04.08	05.05.08	0,278	36	4a	20	5	1	314,00	178,00	<b>2,02</b>	<b>0,40</b>
05.04.08	05.05.08	0,282	37	5a	7	300	1	11,00	7,55	<b>0,05</b>	<b>0,08</b>

Lampitt trap data  
Perry Knorr 2007-099

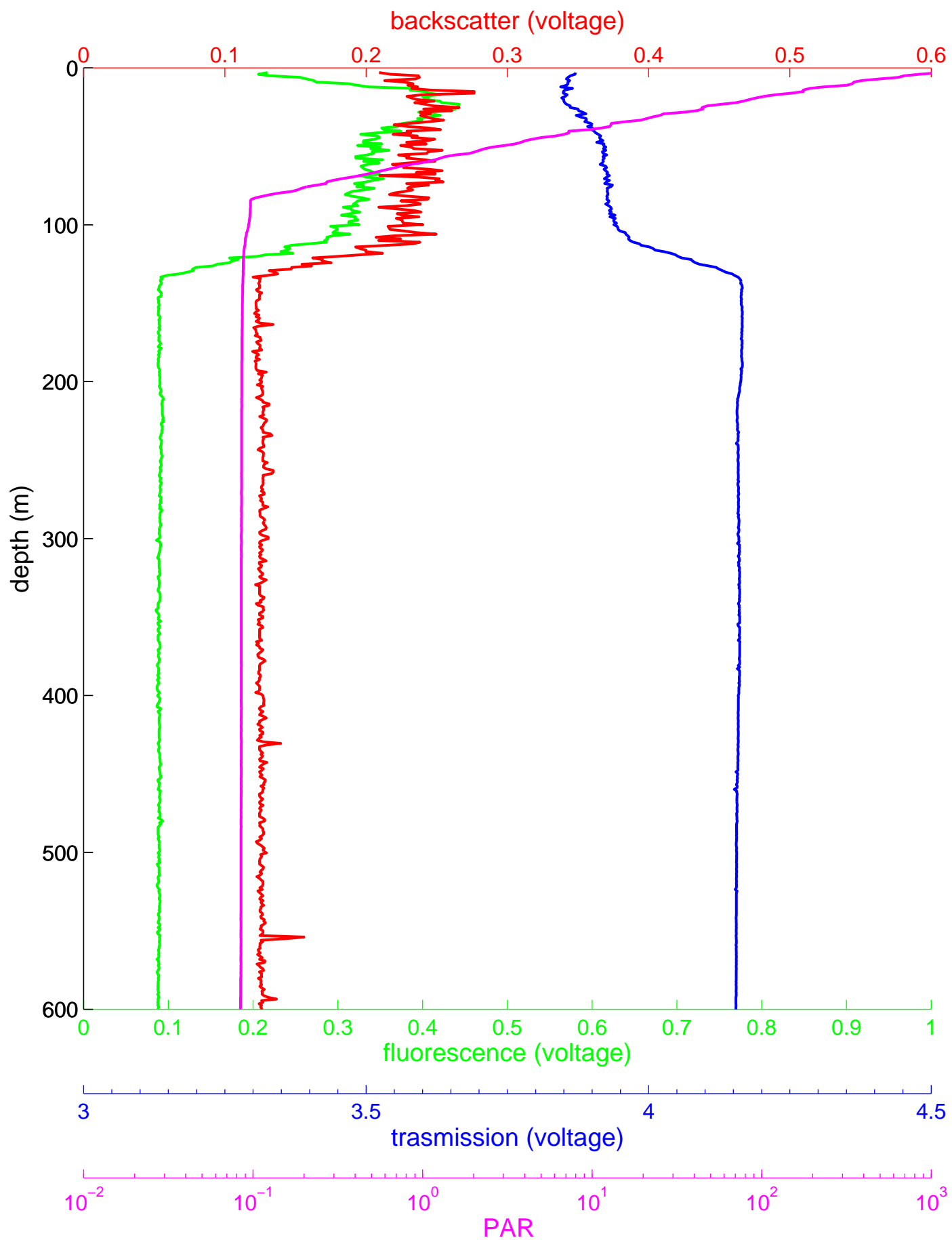
### Trap/Deployment



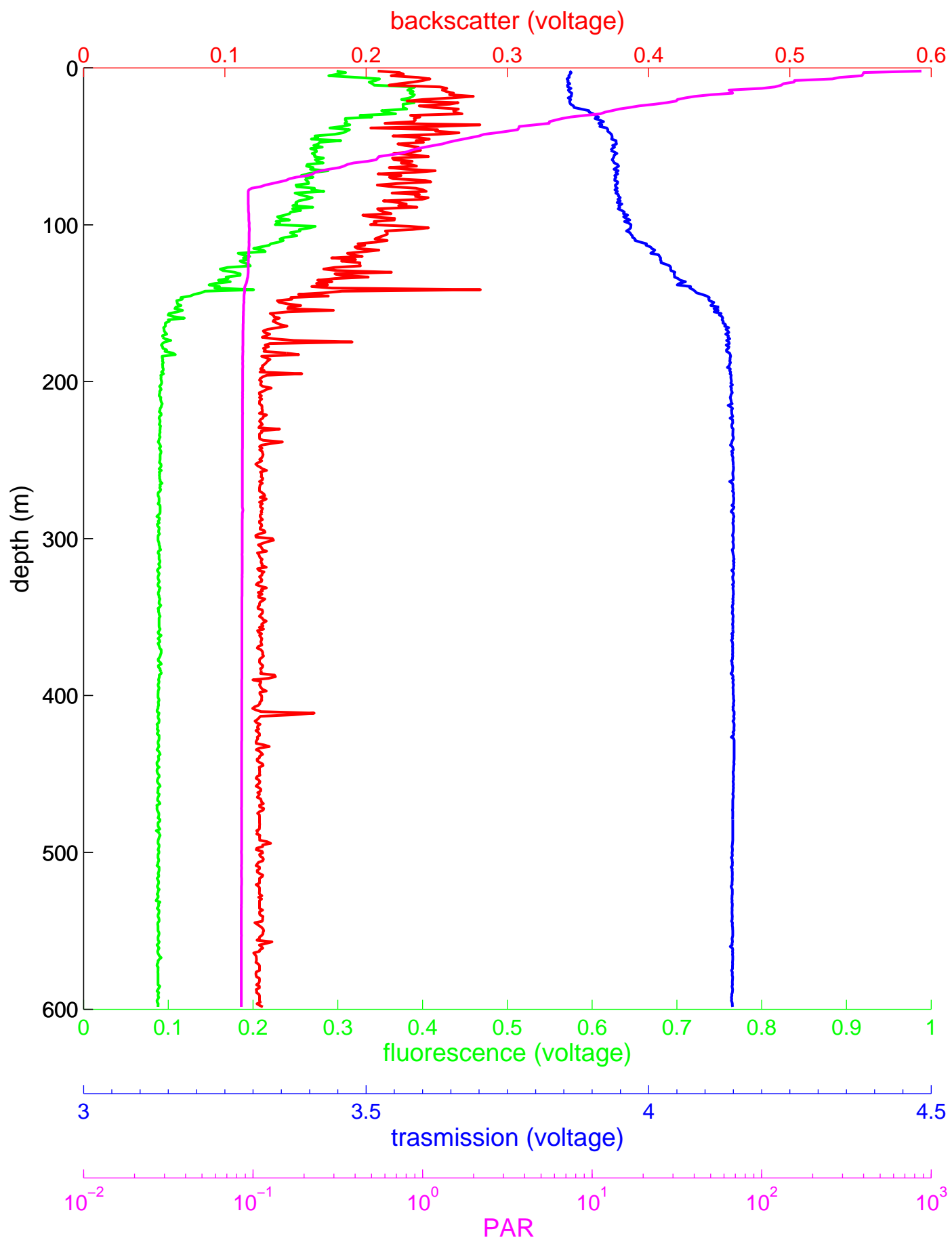
St: 1c Cast: 001 02-May-2008 19:04:24



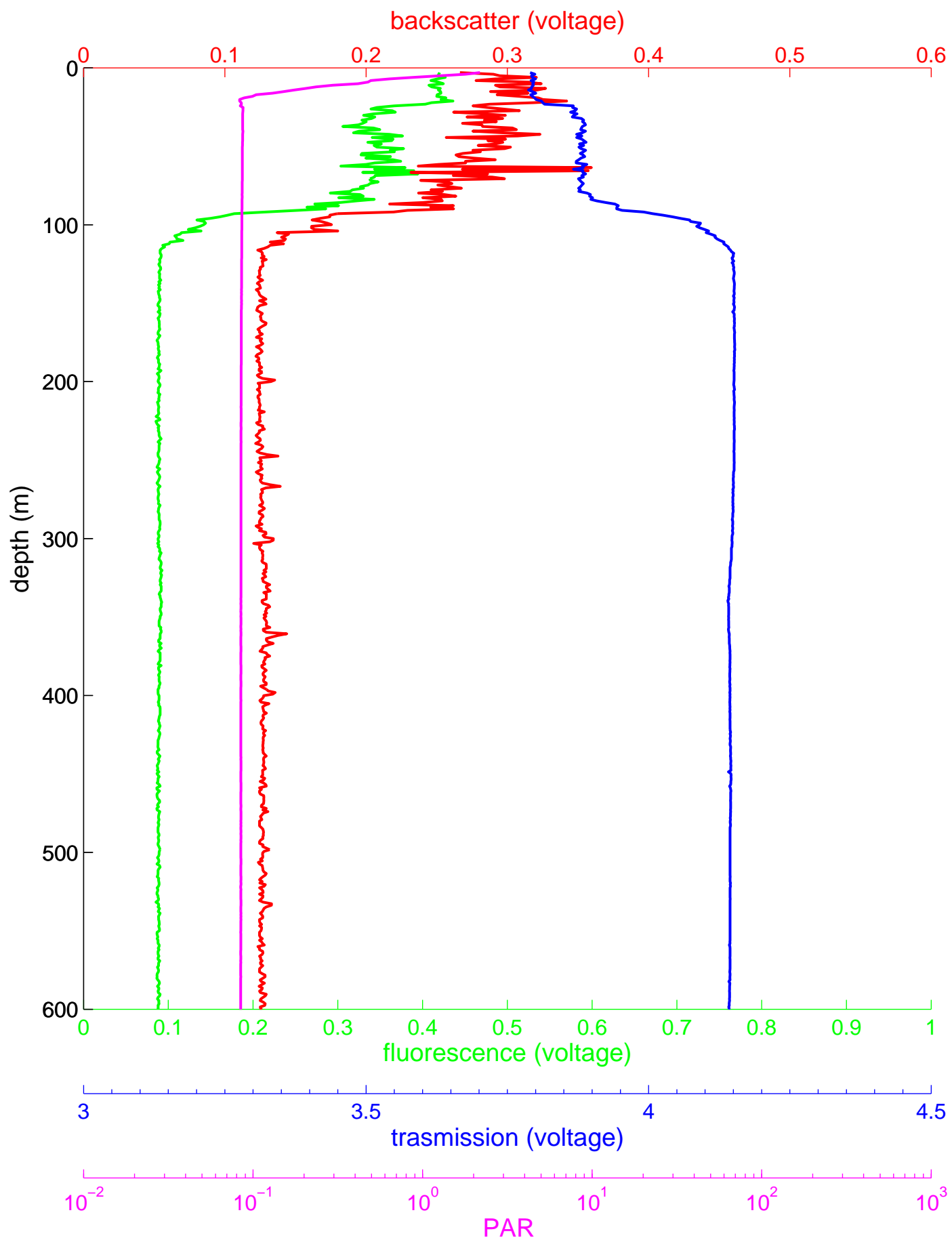
St: 3a Cast: 002 04-May-2008 16:56:08



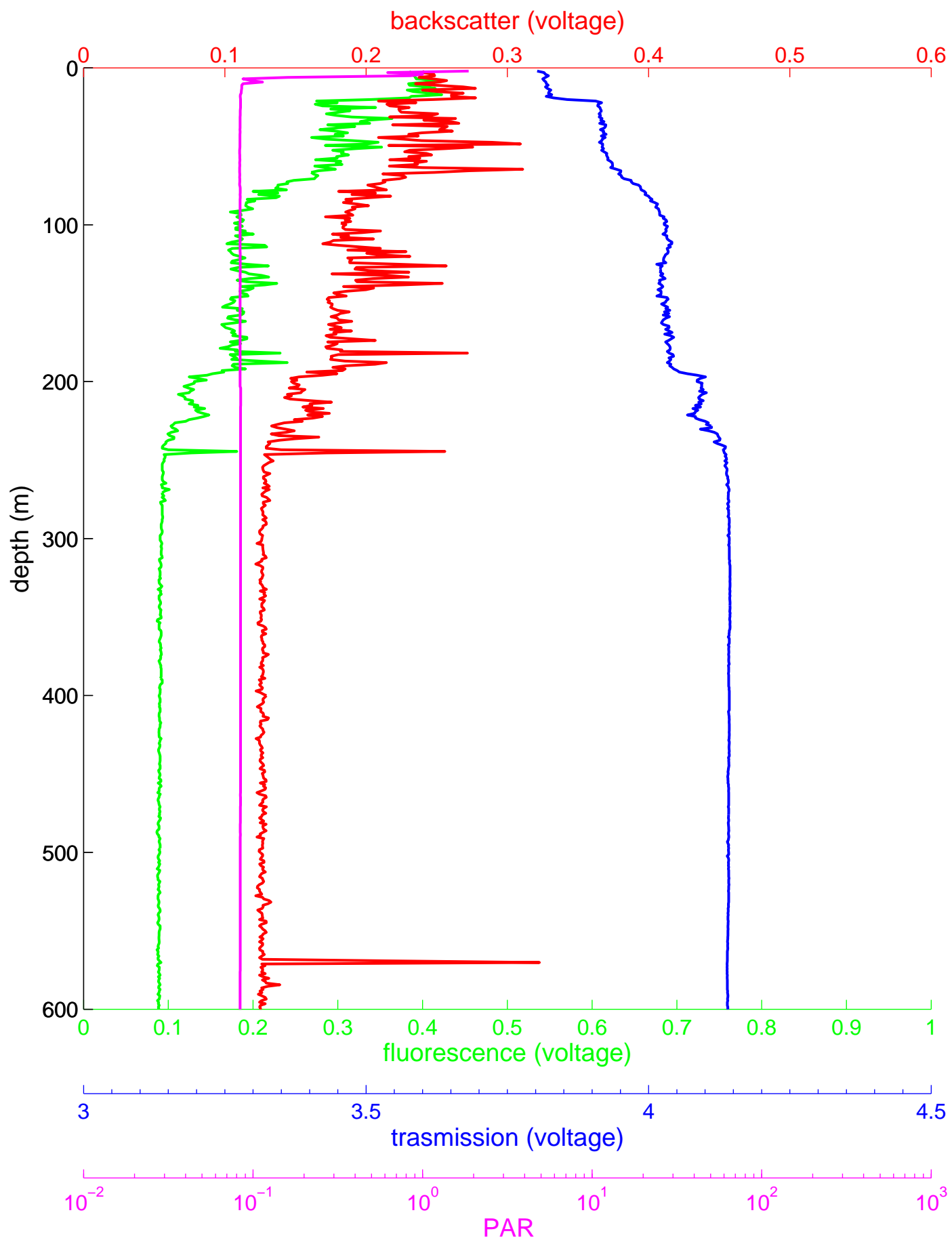
St: 4a Cast: 003 04-May-2008 19:21:09



St: 5a Cast: 004 04-May-2008 22:22:50

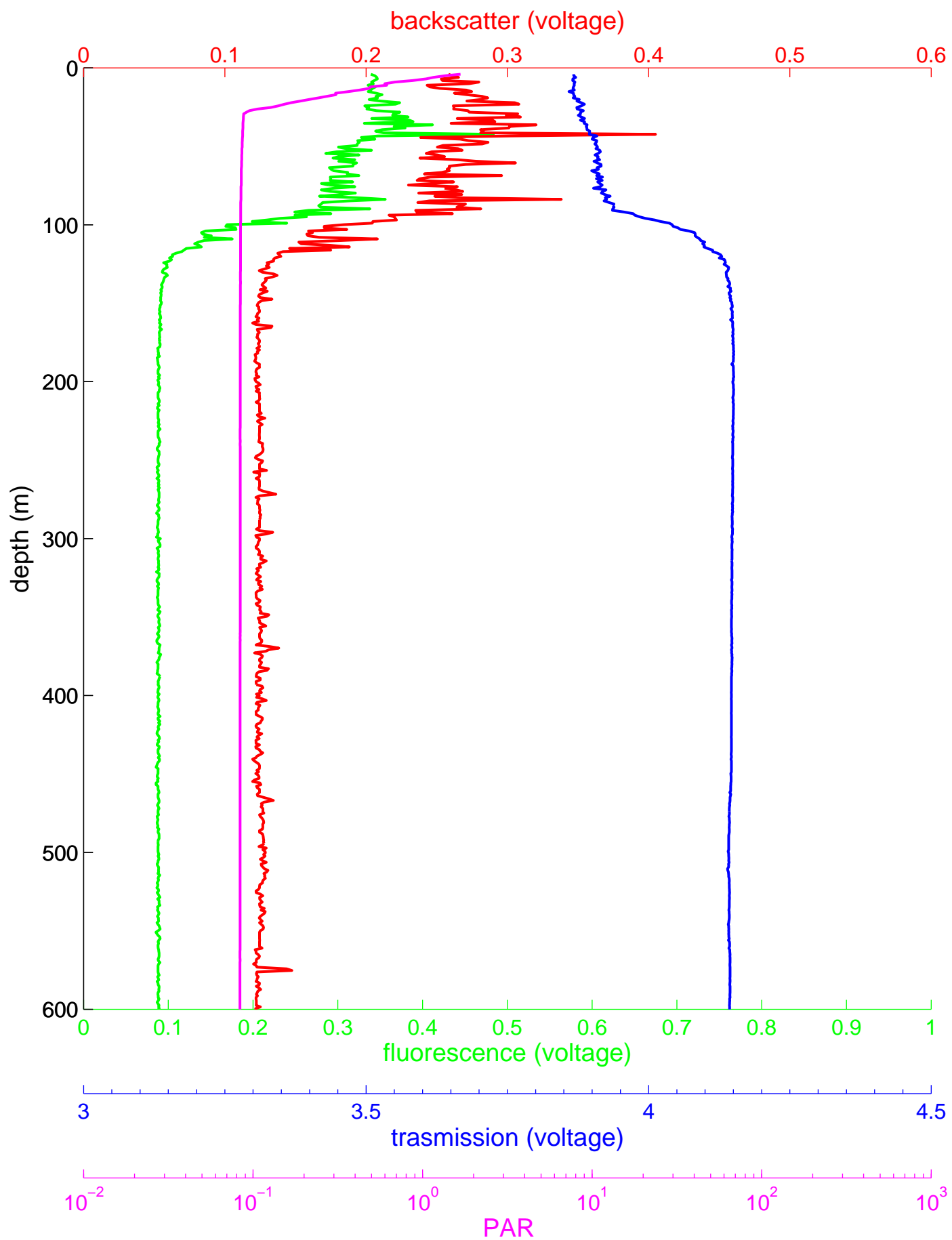


St: 6-a Cast: 005 05-May-2008 02:27:00

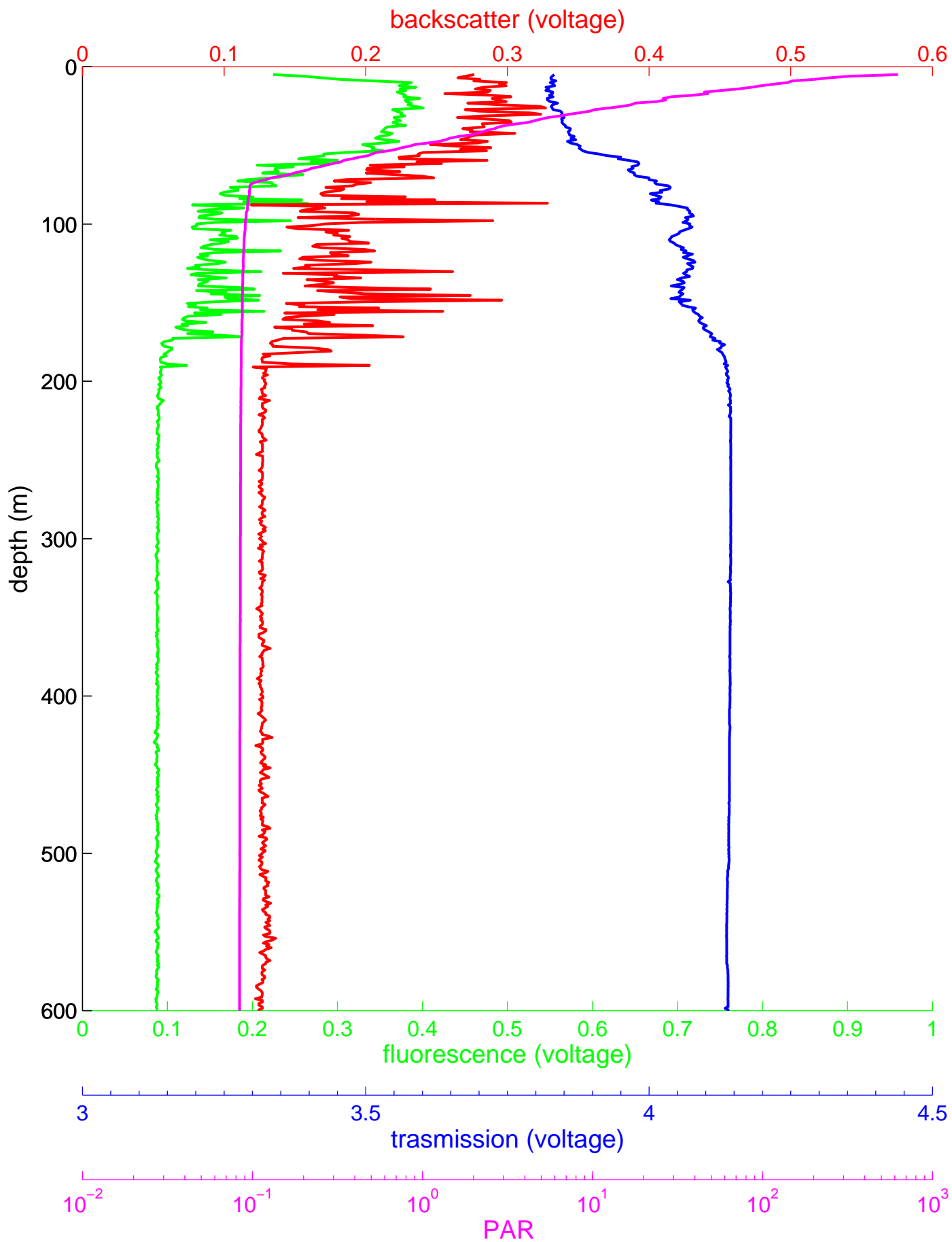




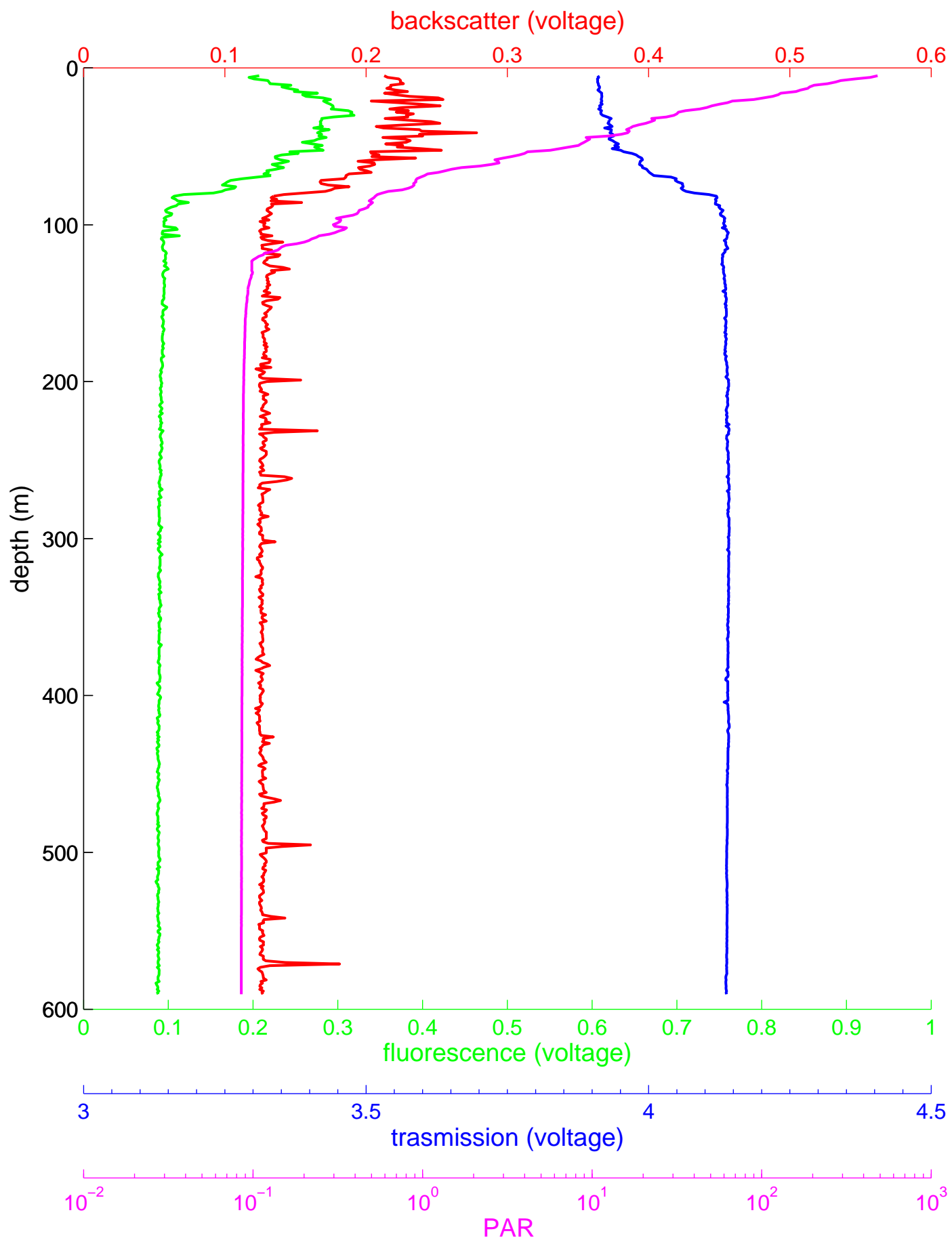
St: 7a Cast: 006 05-May-2008 05:16:04



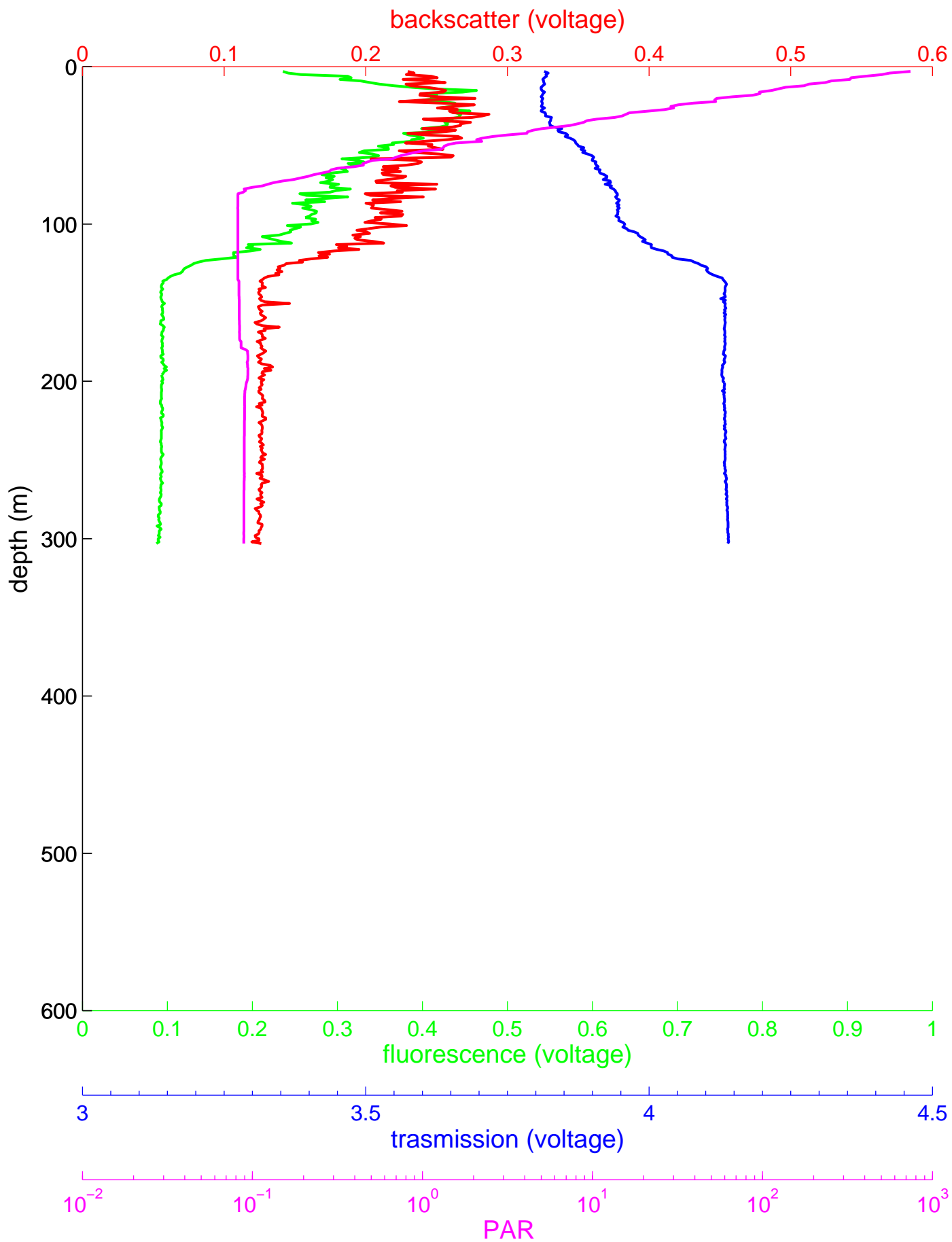
St: 8-a Cast: 007 05-May-2008 10:02:01



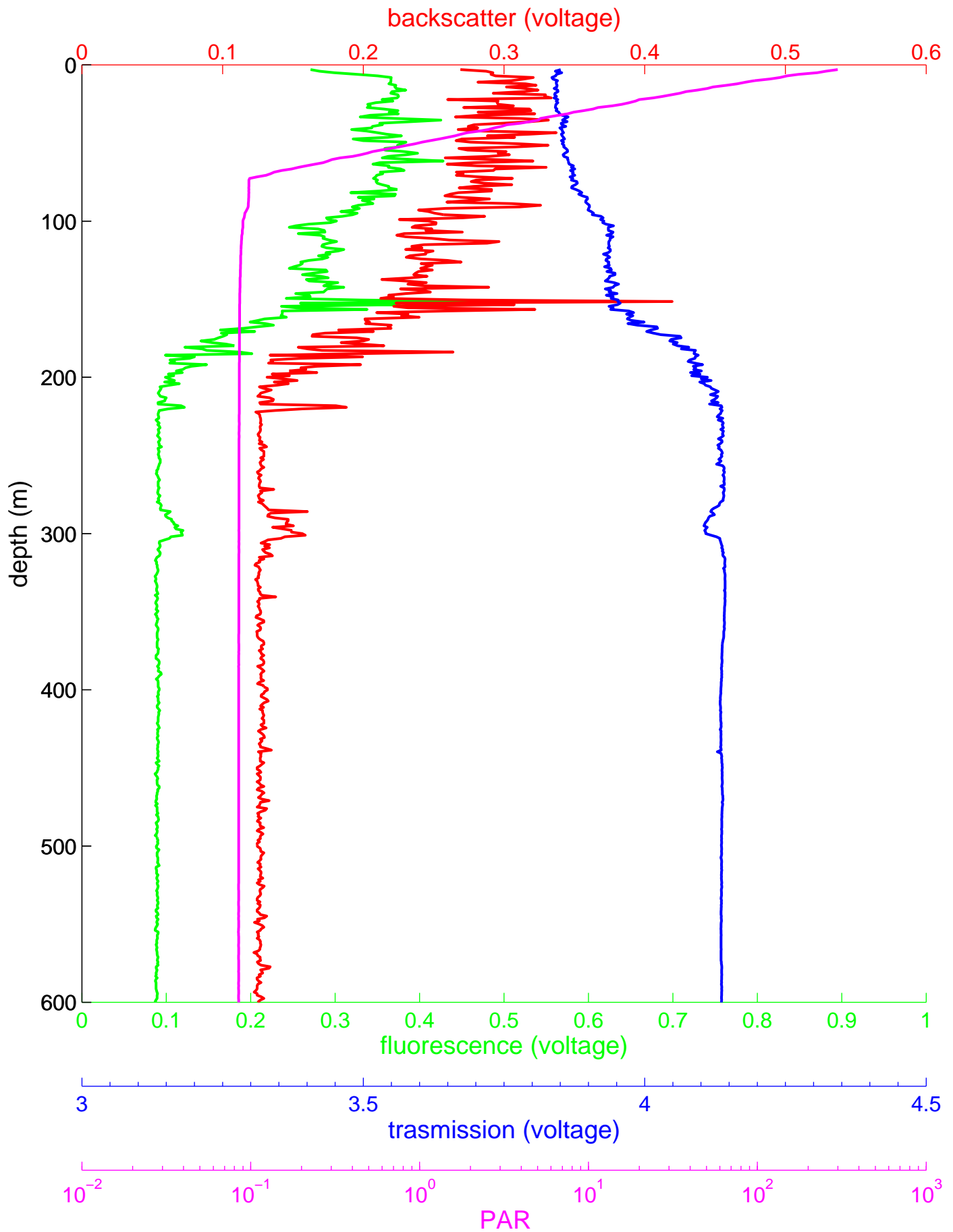
St: 9c Cast: 008 05-May-2008 12:59:41



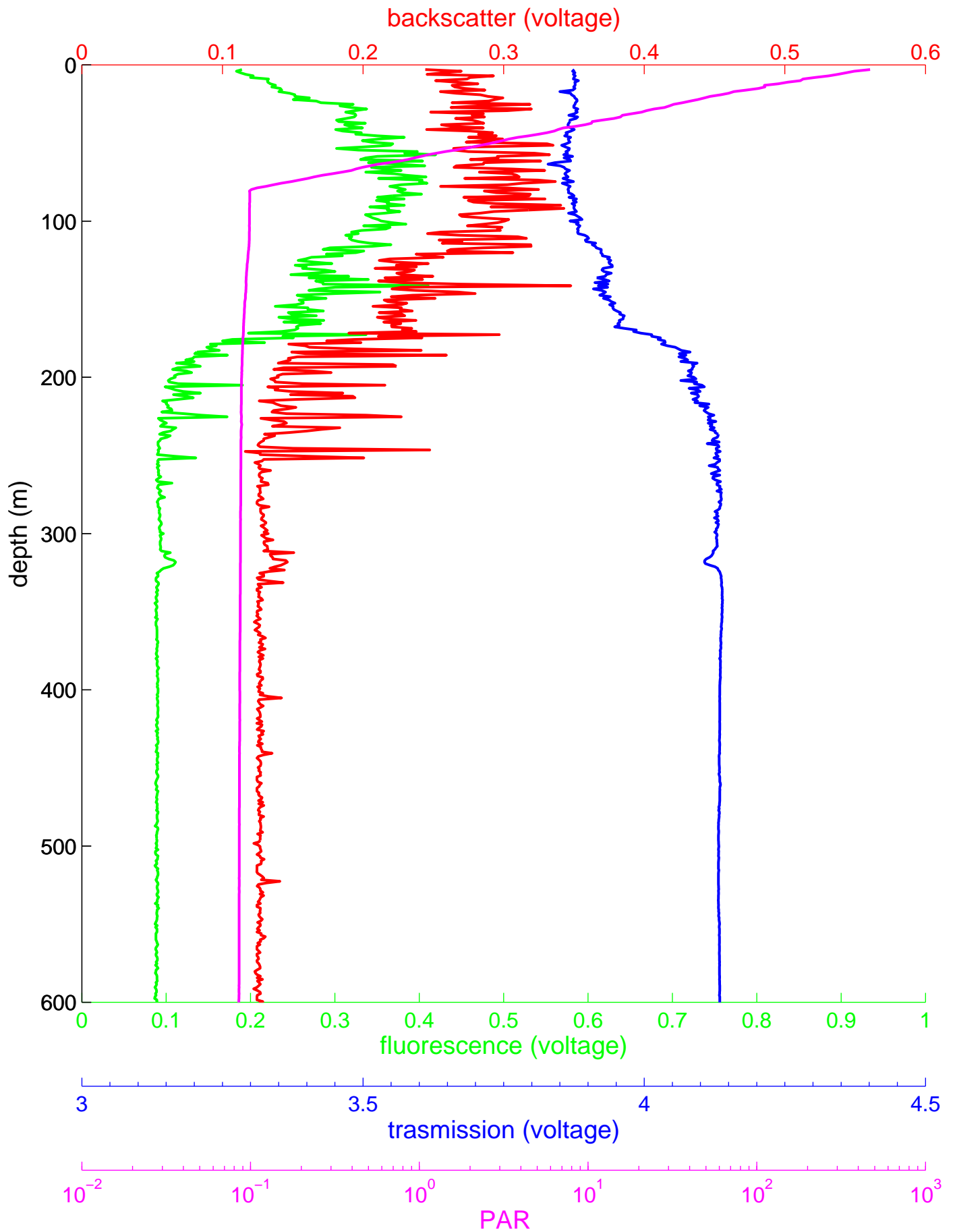
St: 10a Cast: 009 05-May-2008 16:38:35



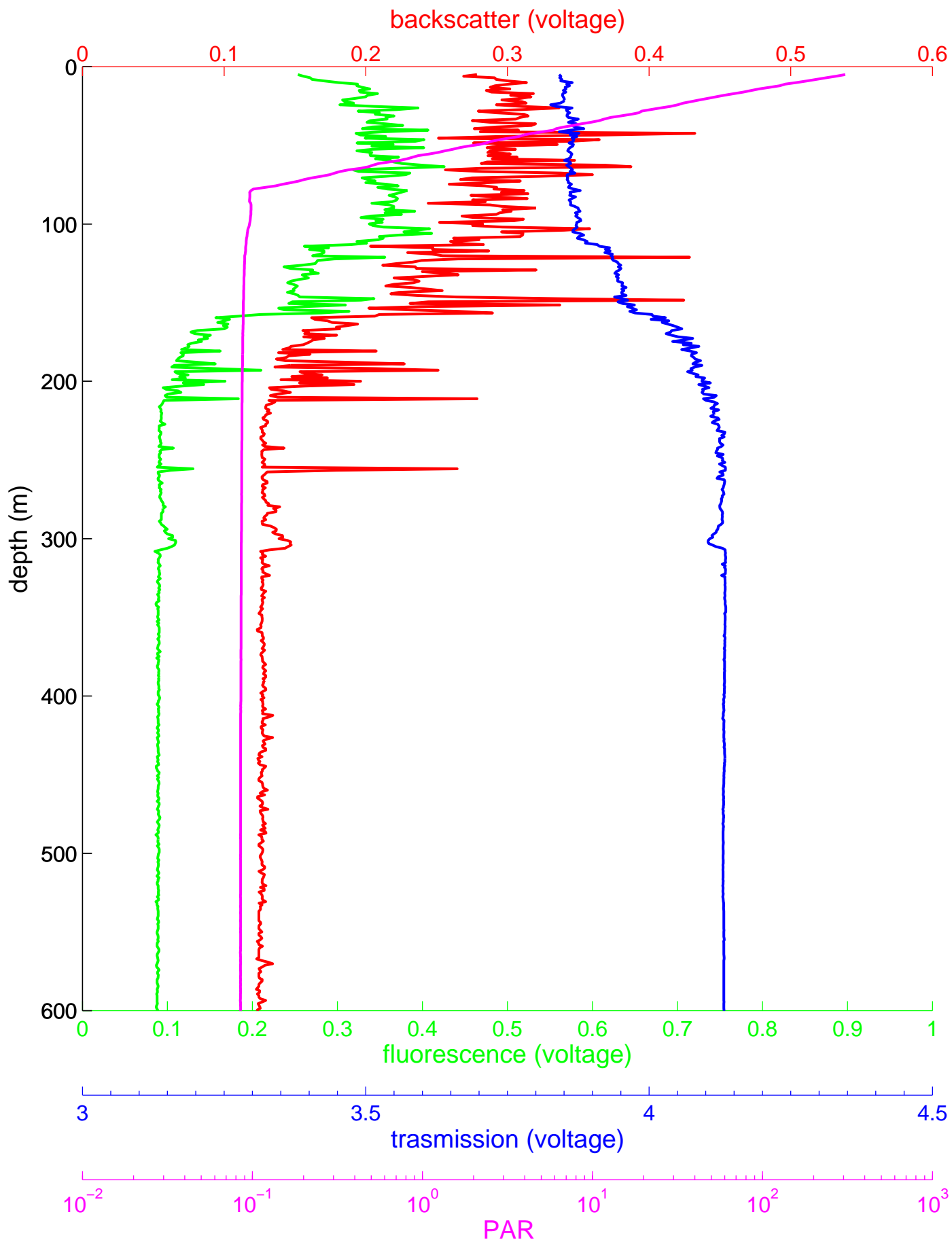
St: 12-a Cast: 010 06-May-2008 09:32:49



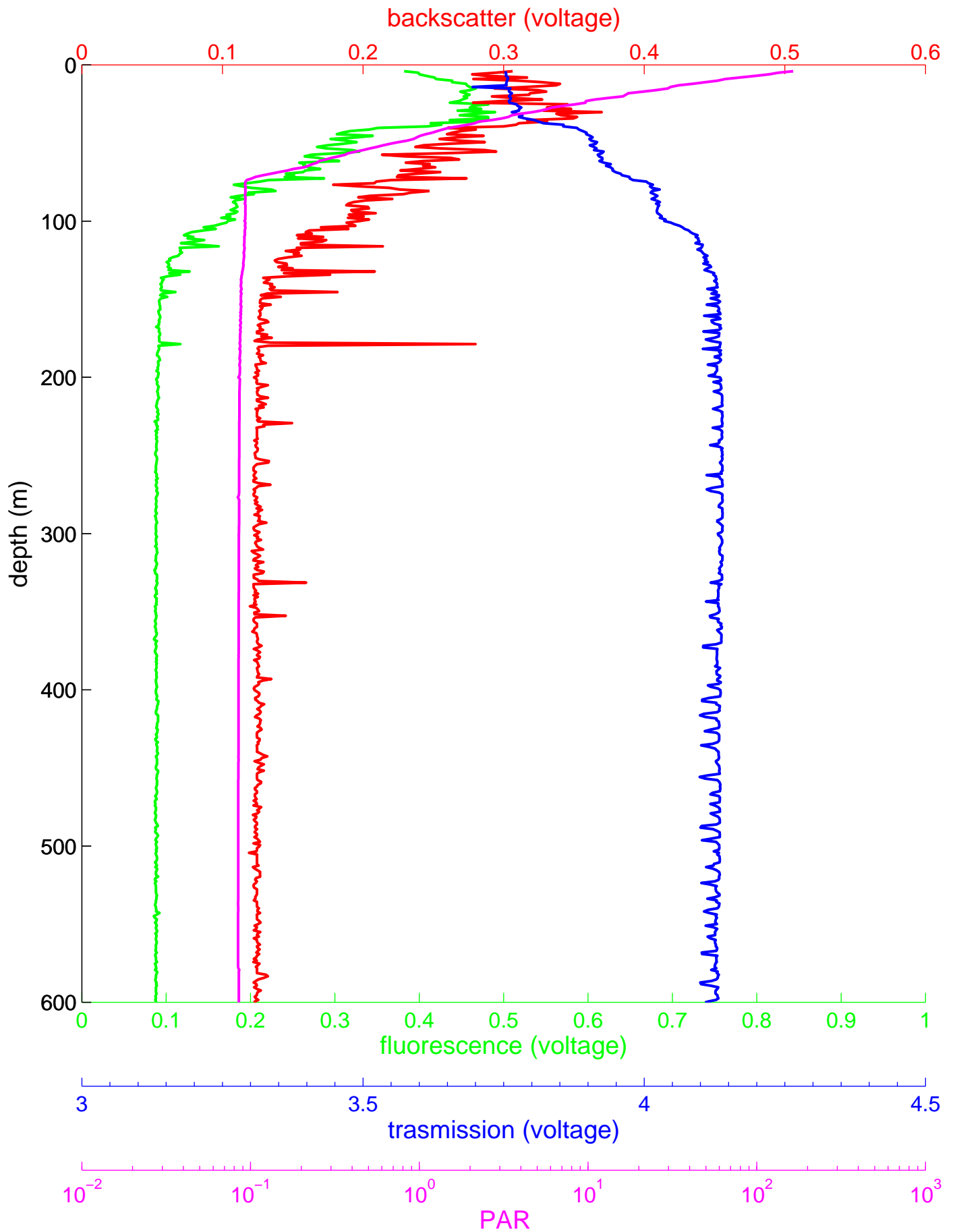
St: 12-b Cast: 011 06-May-2008 11:17:57



St: 12c Cast: 012 06-May-2008 13:11:57

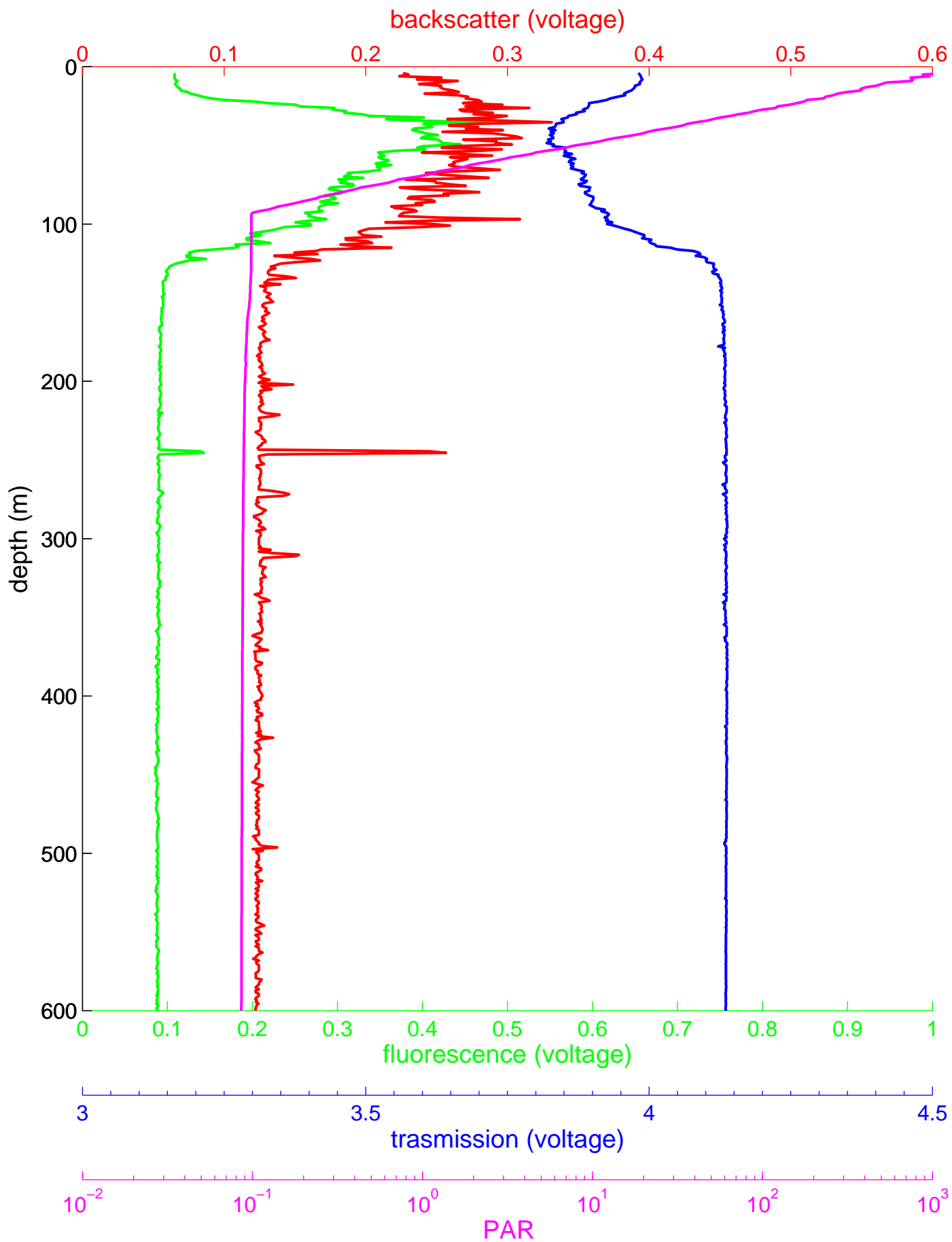


St: 18-a Cast: 013 07-May-2008 08:47:01

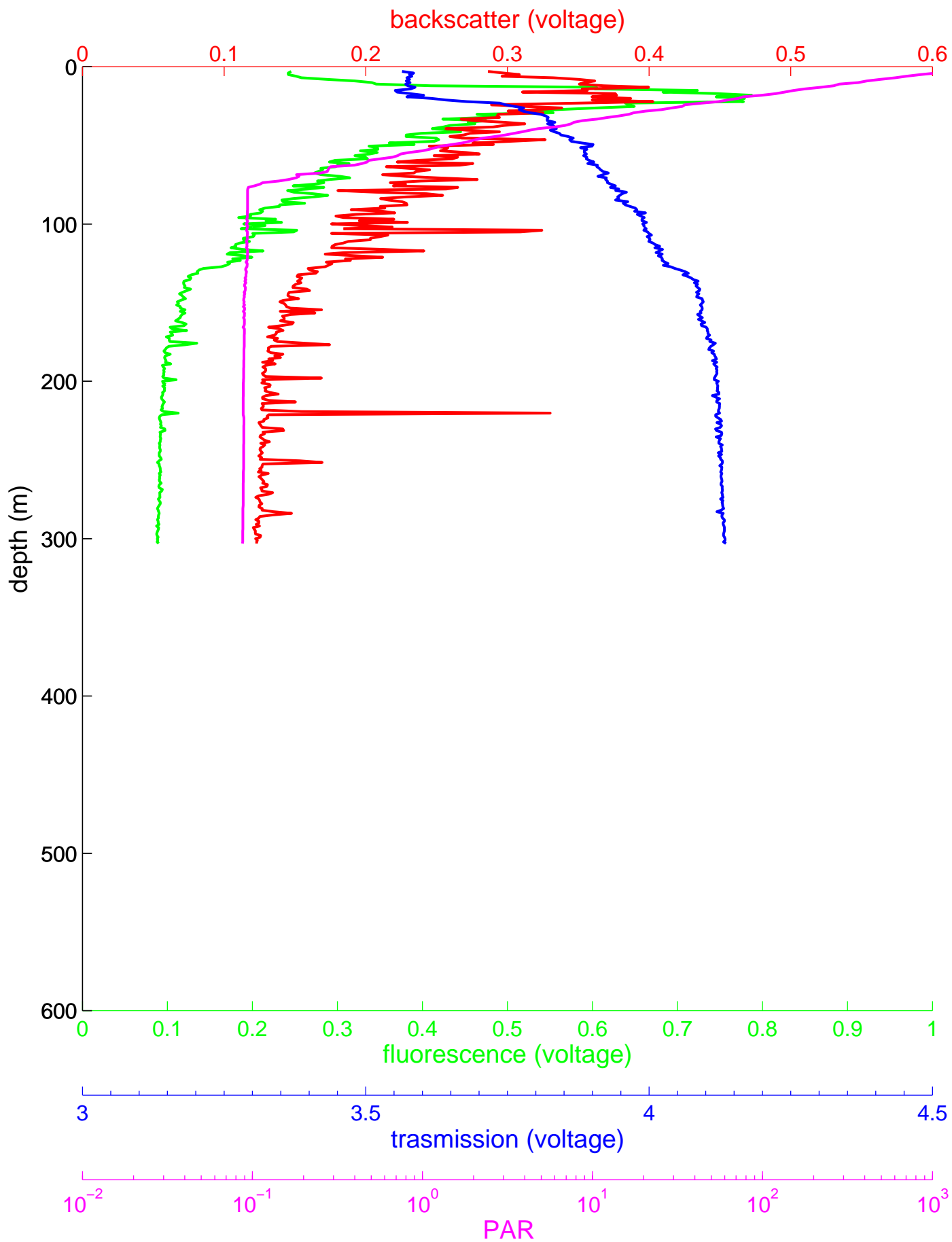




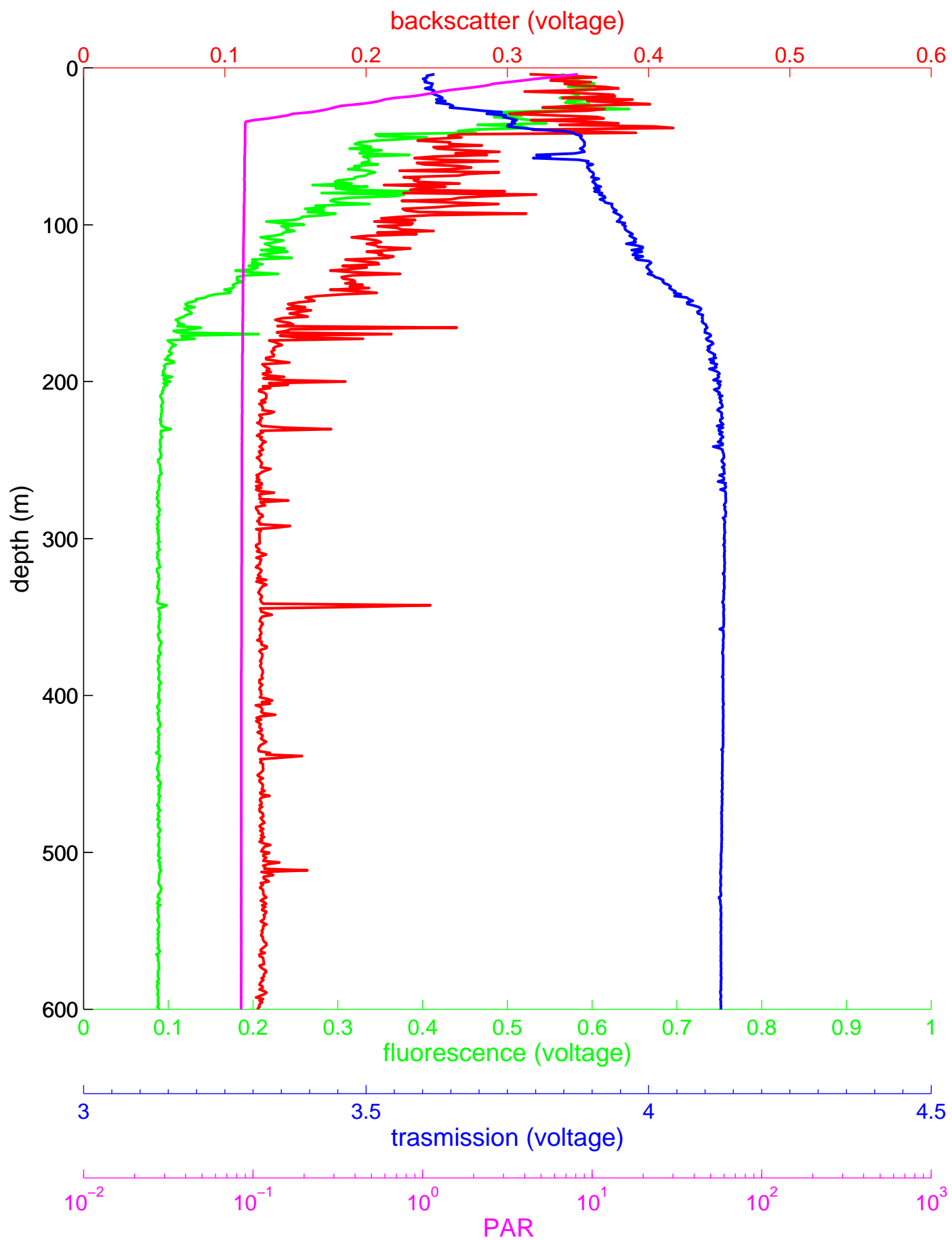
St: 19-a Cast: 014 07-May-2008 12:32:36



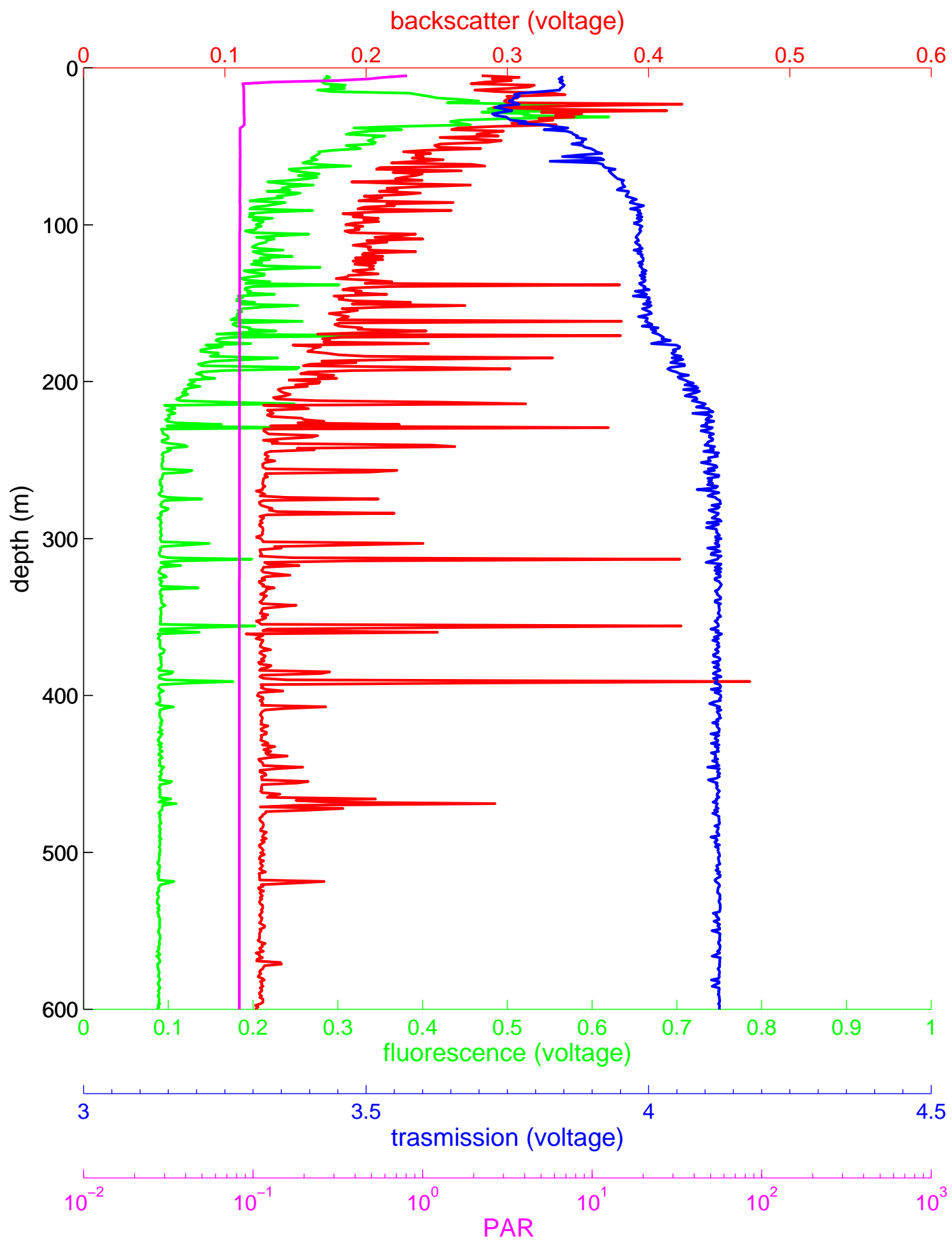
St: 21-a Cast: 015 07-May-2008 15:45:54



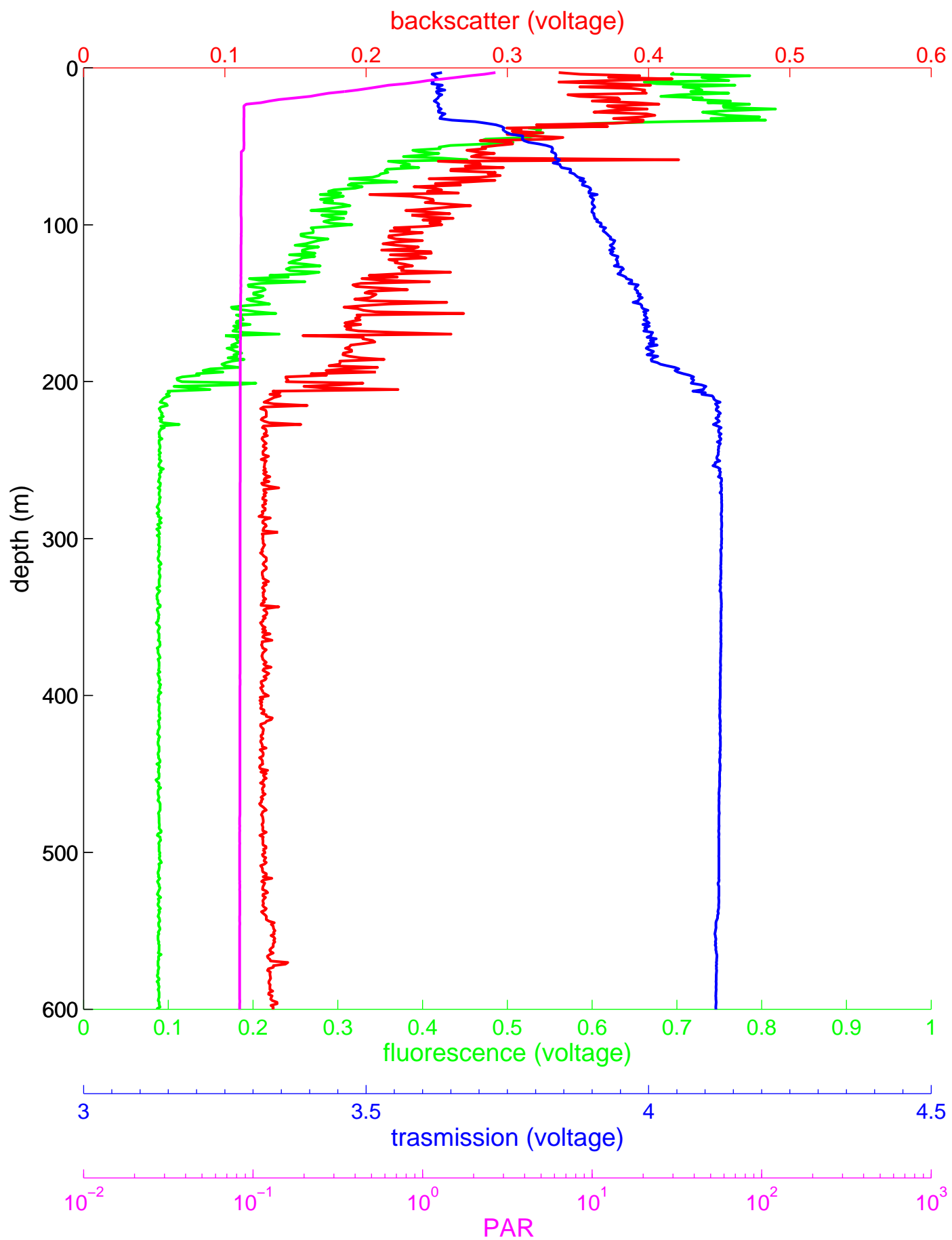
St: 21j Cast: 016 07-May-2008 21:55:40



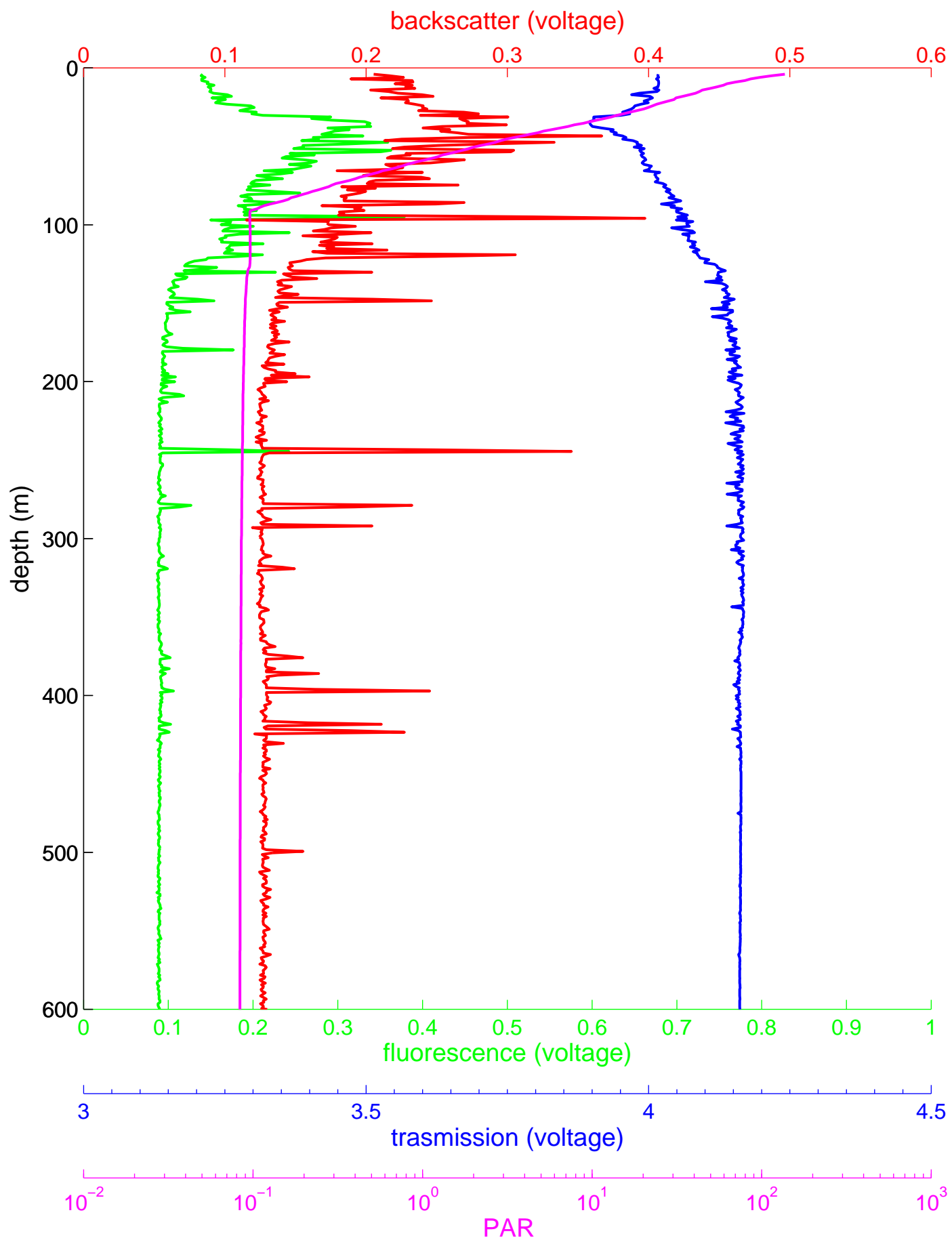
St: 22a Cast: 017 08-May-2008 02:08:42



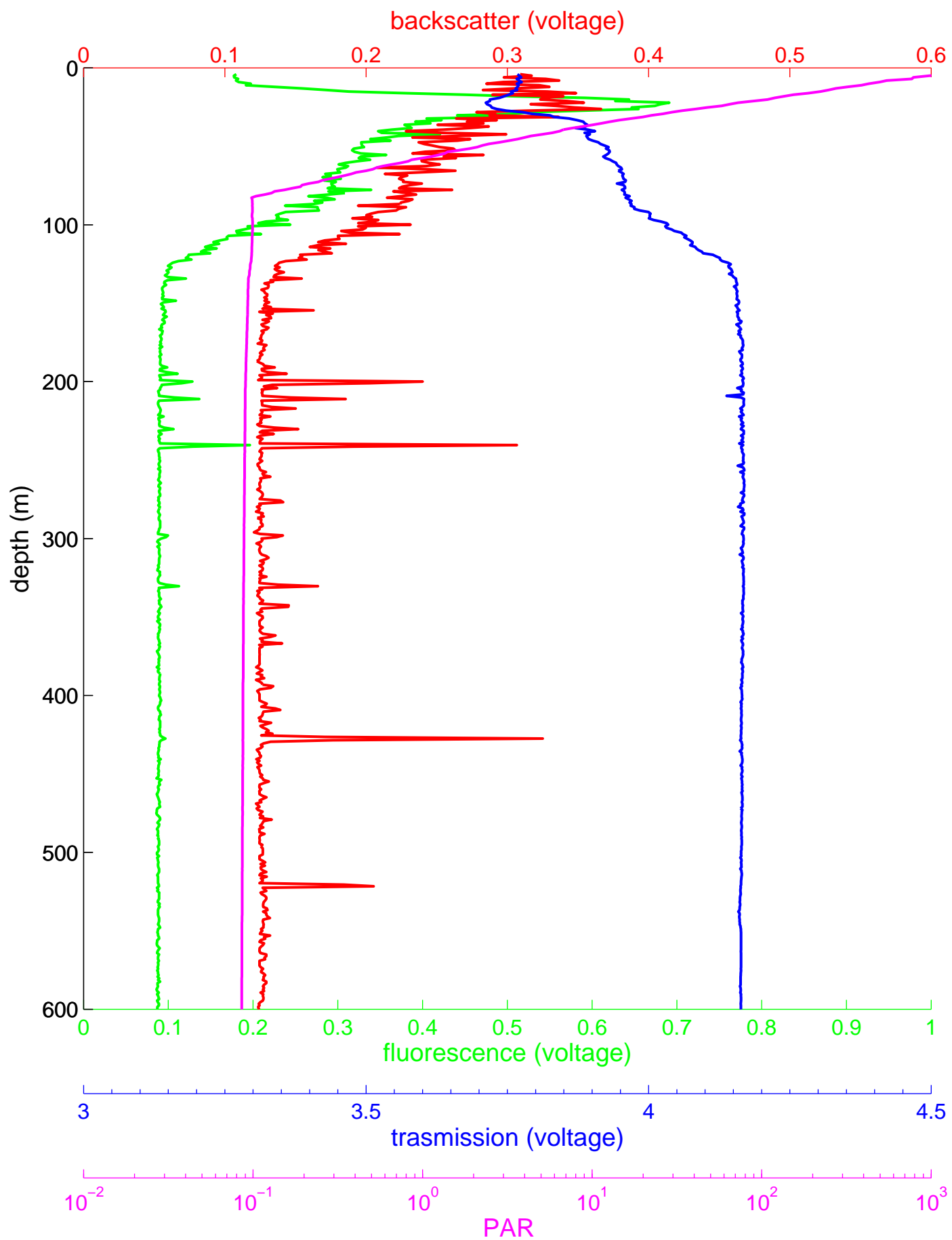
St: 23a Cast: 018 08-May-2008 05:03:14



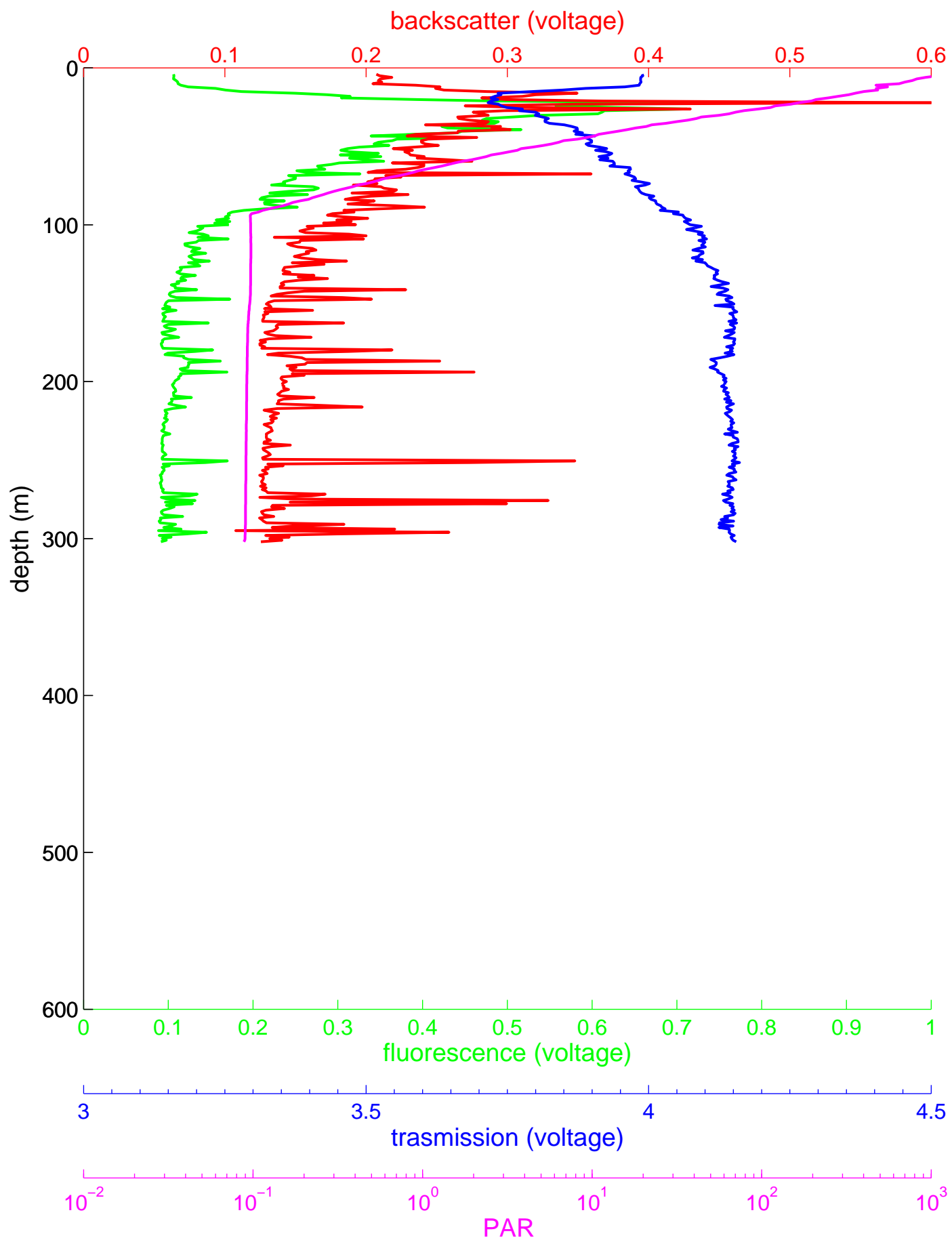
St: 24a Cast: 019 08-May-2008 07:55:32



St: 25a Cast: 020 08-May-2008 10:58:26

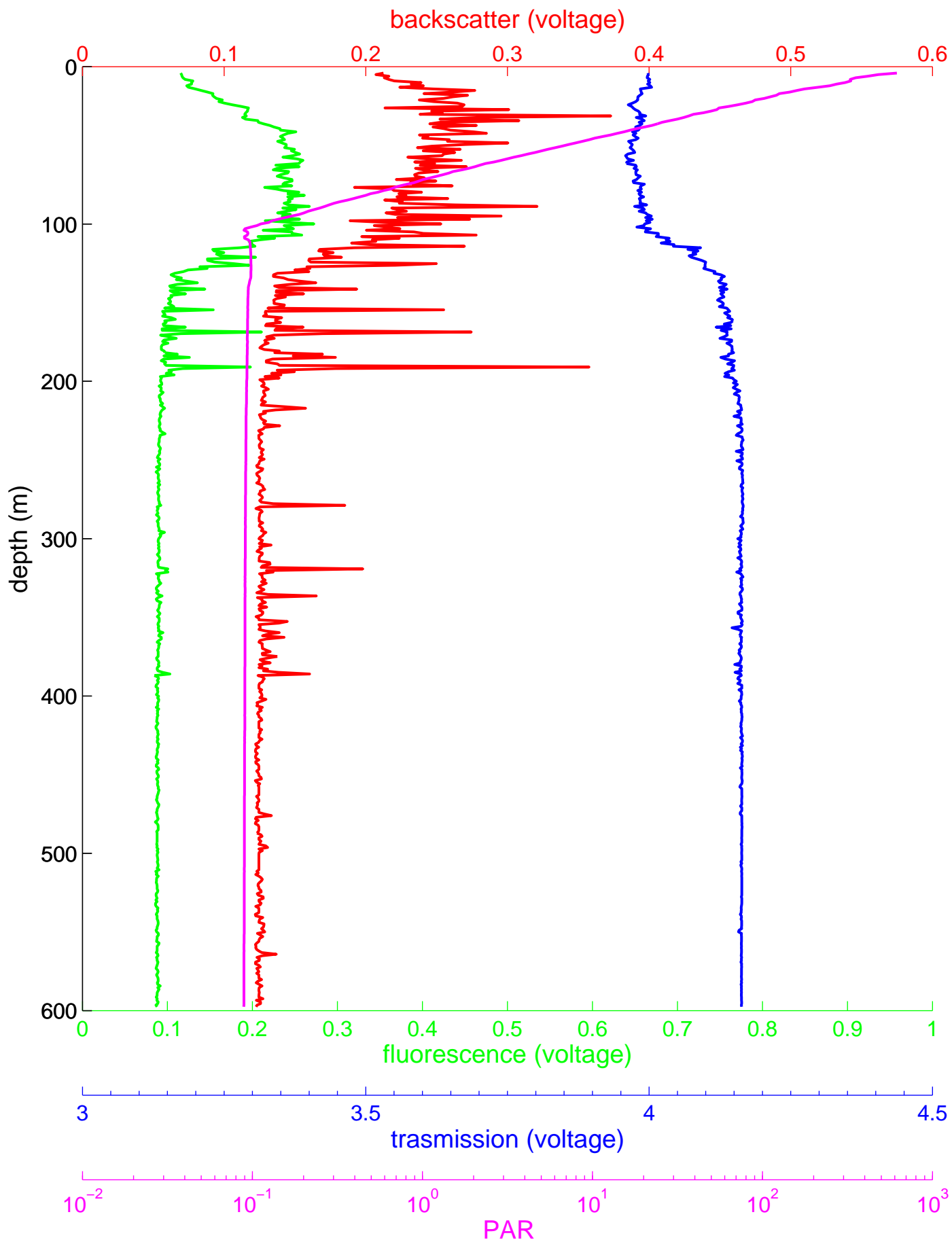


St: 26a Cast: 021 08-May-2008 13:41:39

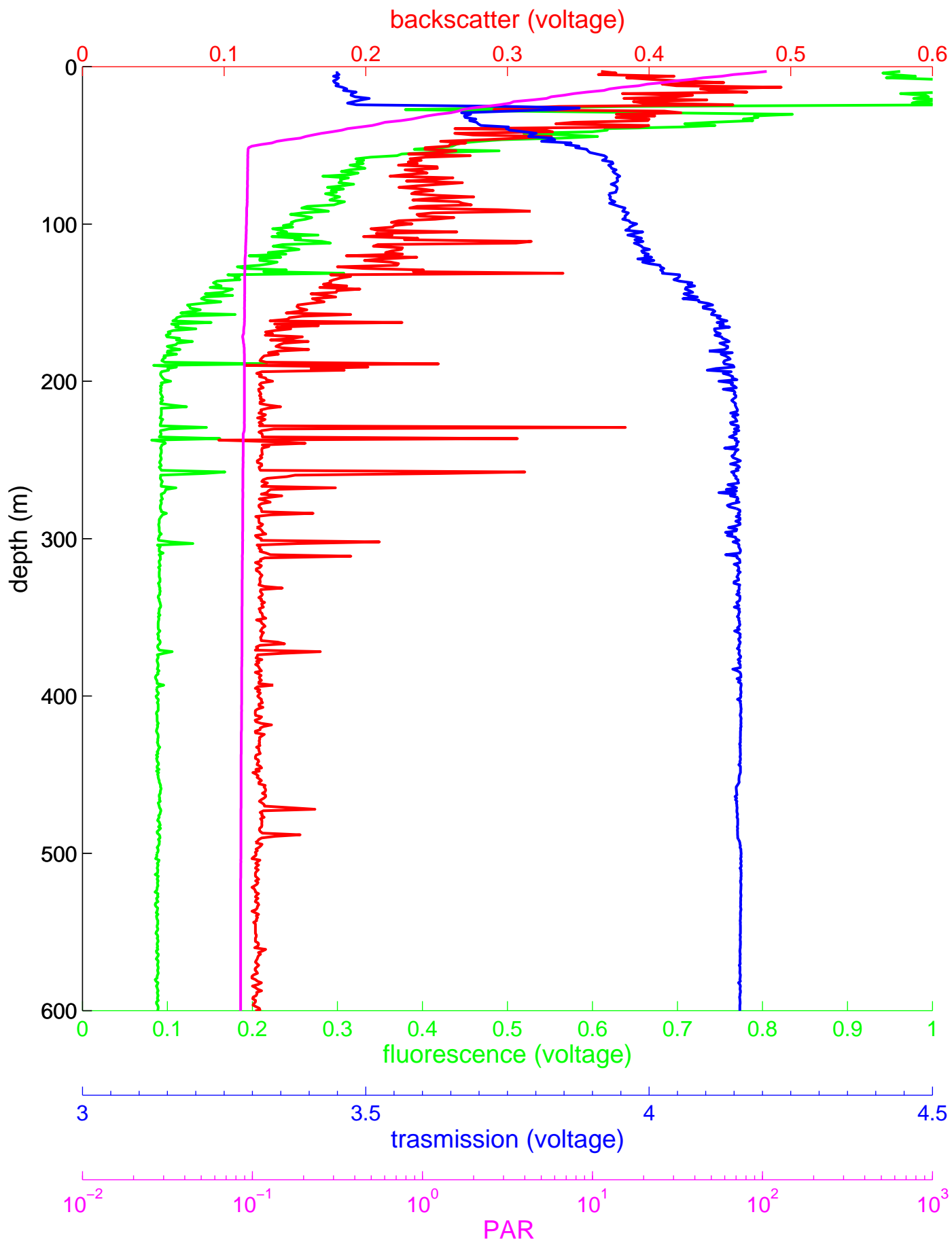




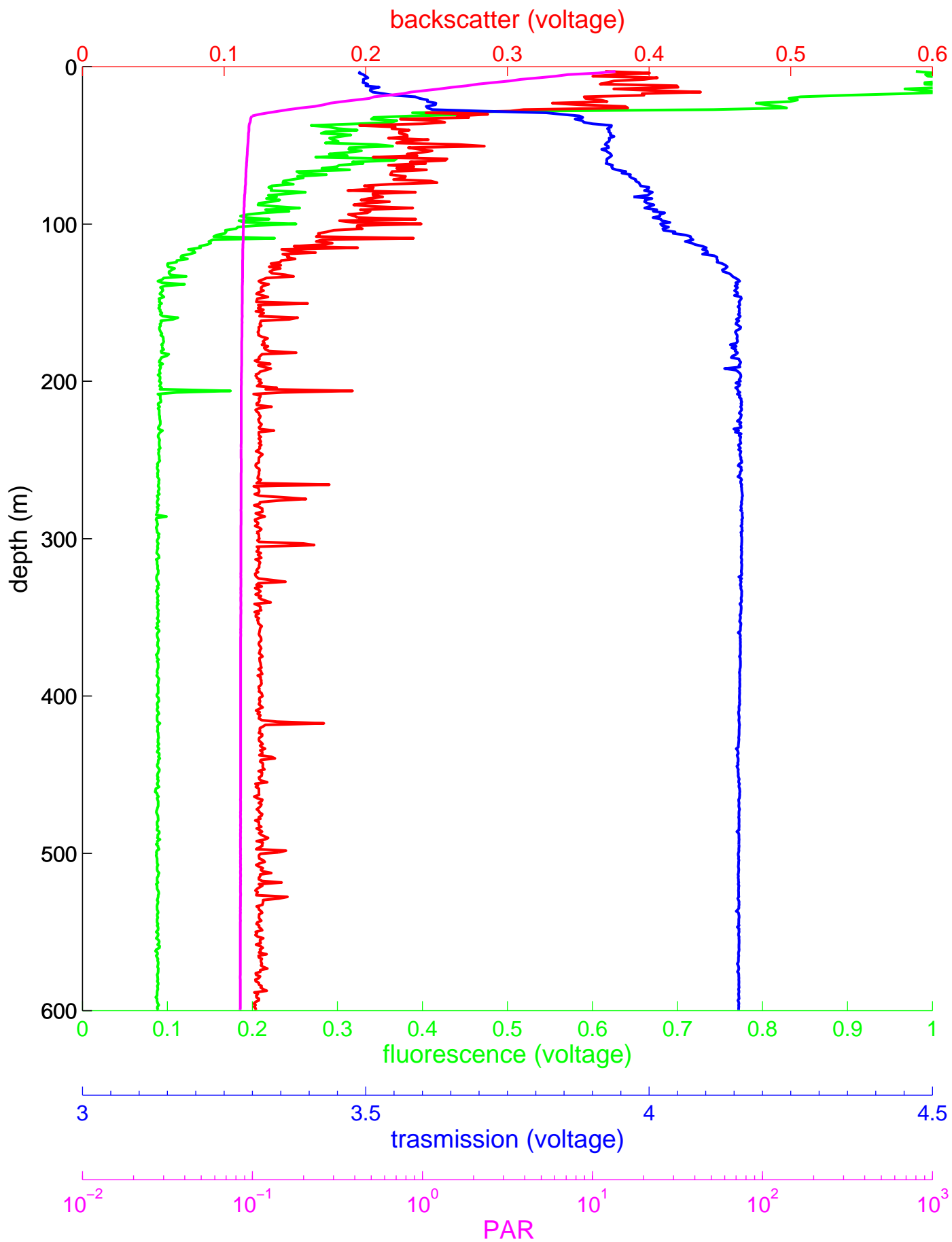
St: 26d Cast: 022 08-May-2008 16:11:22



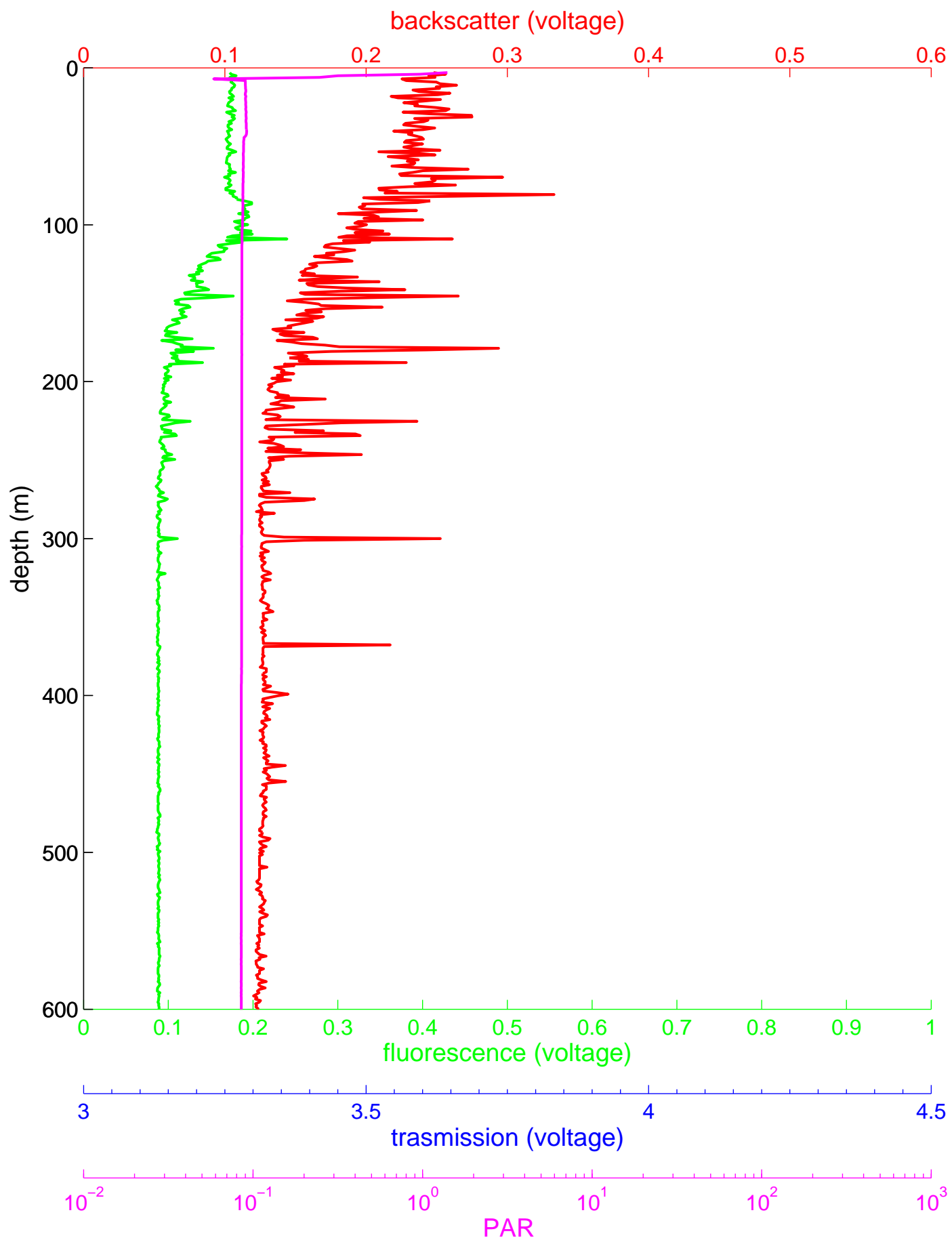
St: 27a Cast: 023 08-May-2008 18:57:33



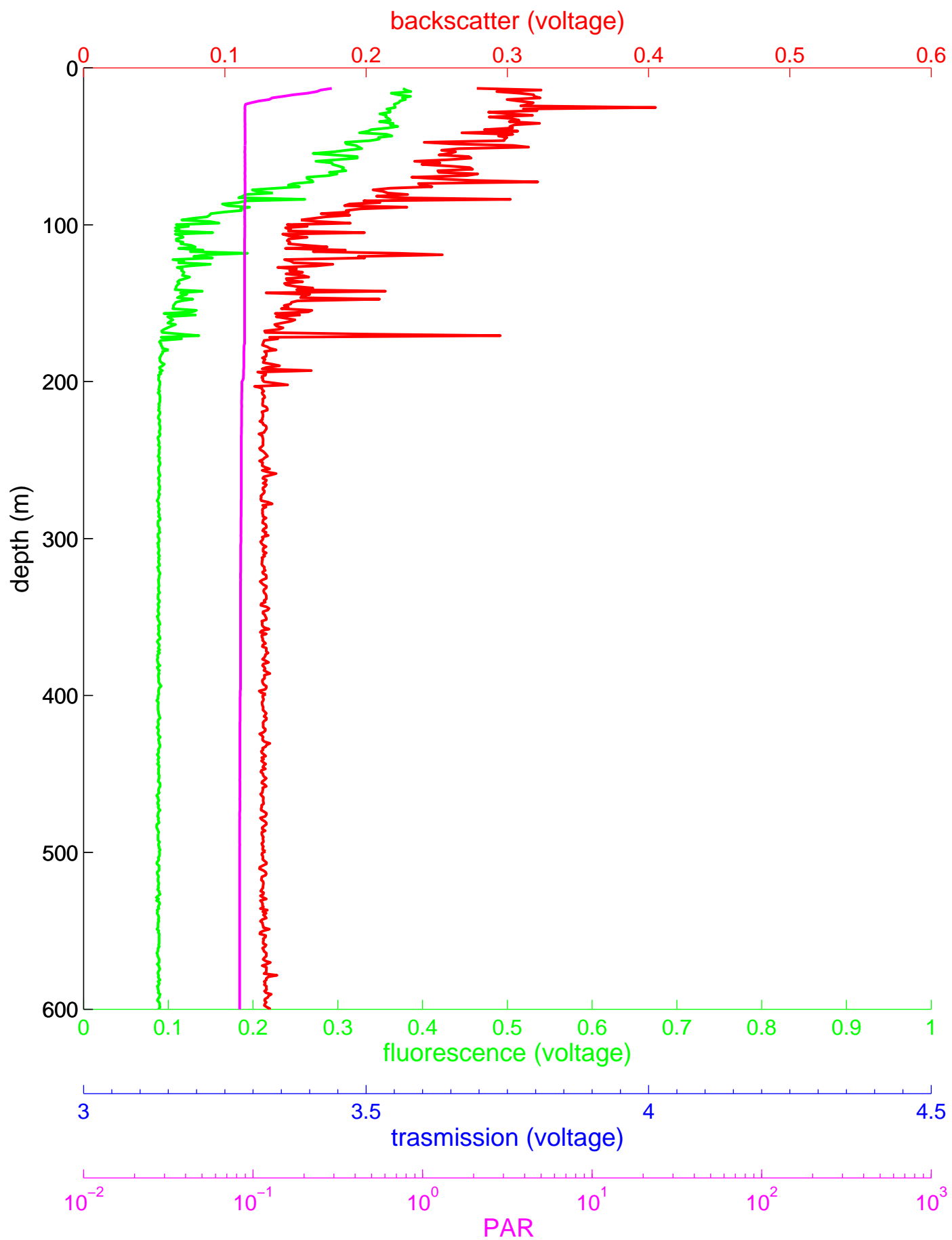
St: 28a Cast: 024 08-May-2008 21:44:46



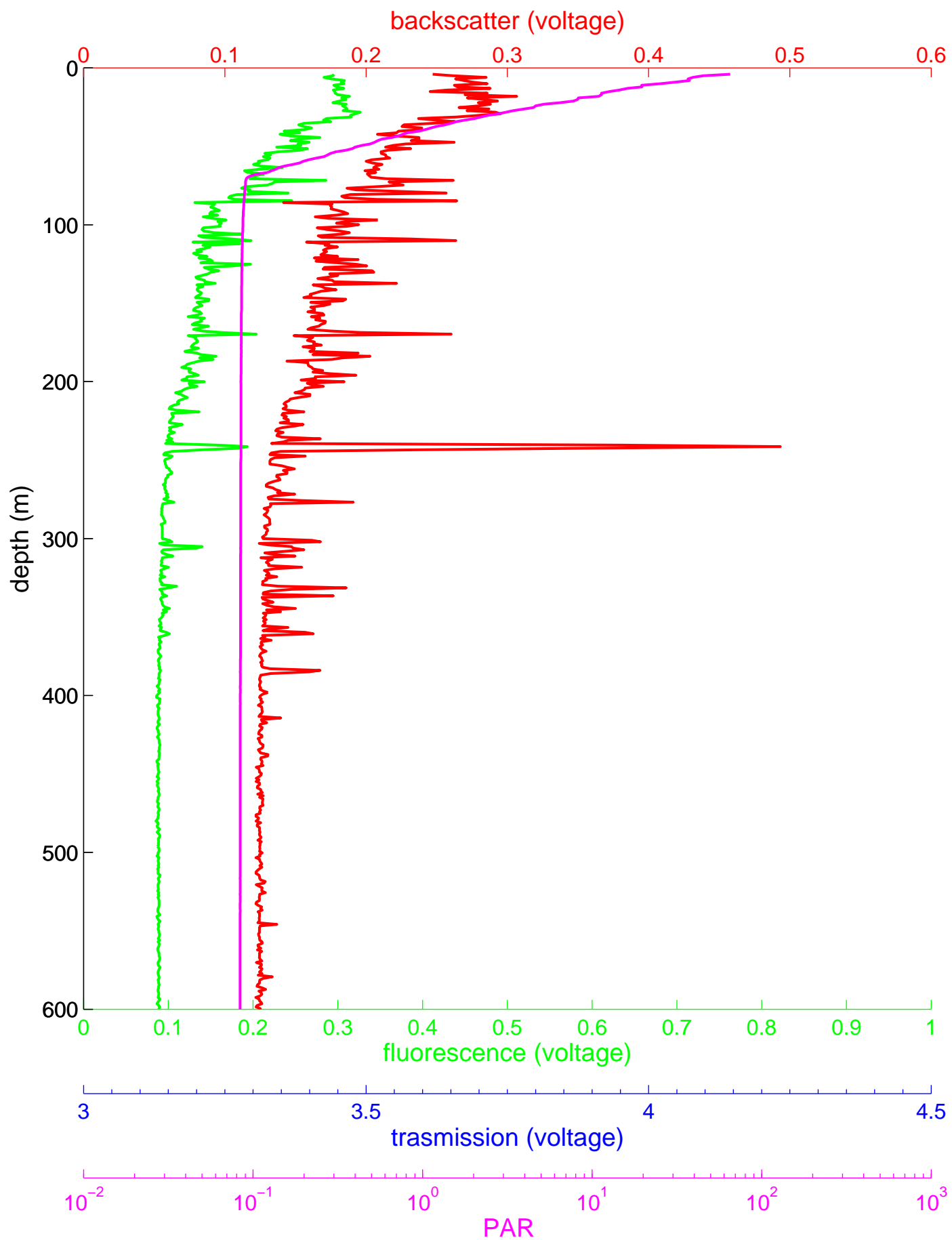
St: 29a Cast: 025 09-May-2008 02:12:39



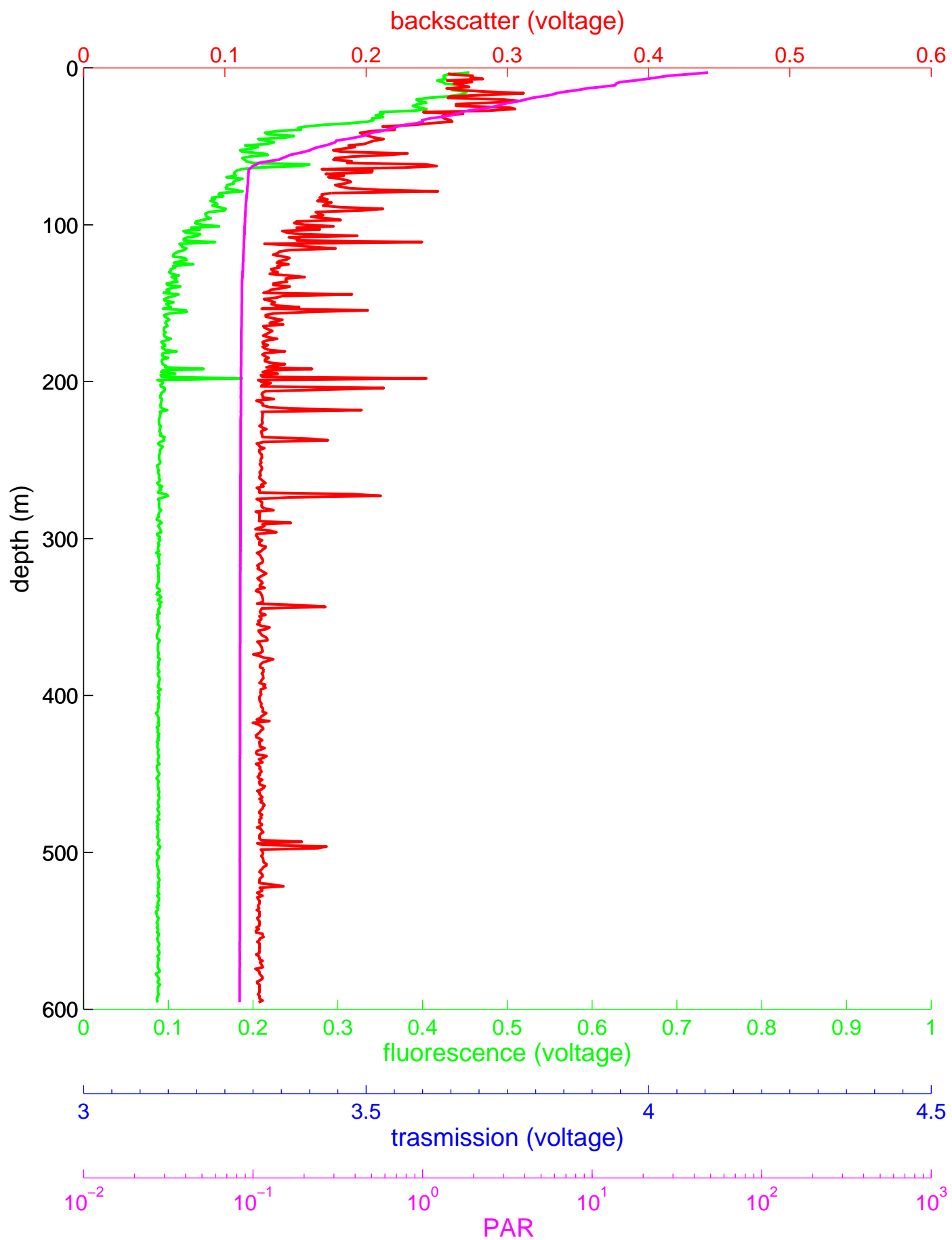
St: 30a Cast: 026 09-May-2008 05:13:29



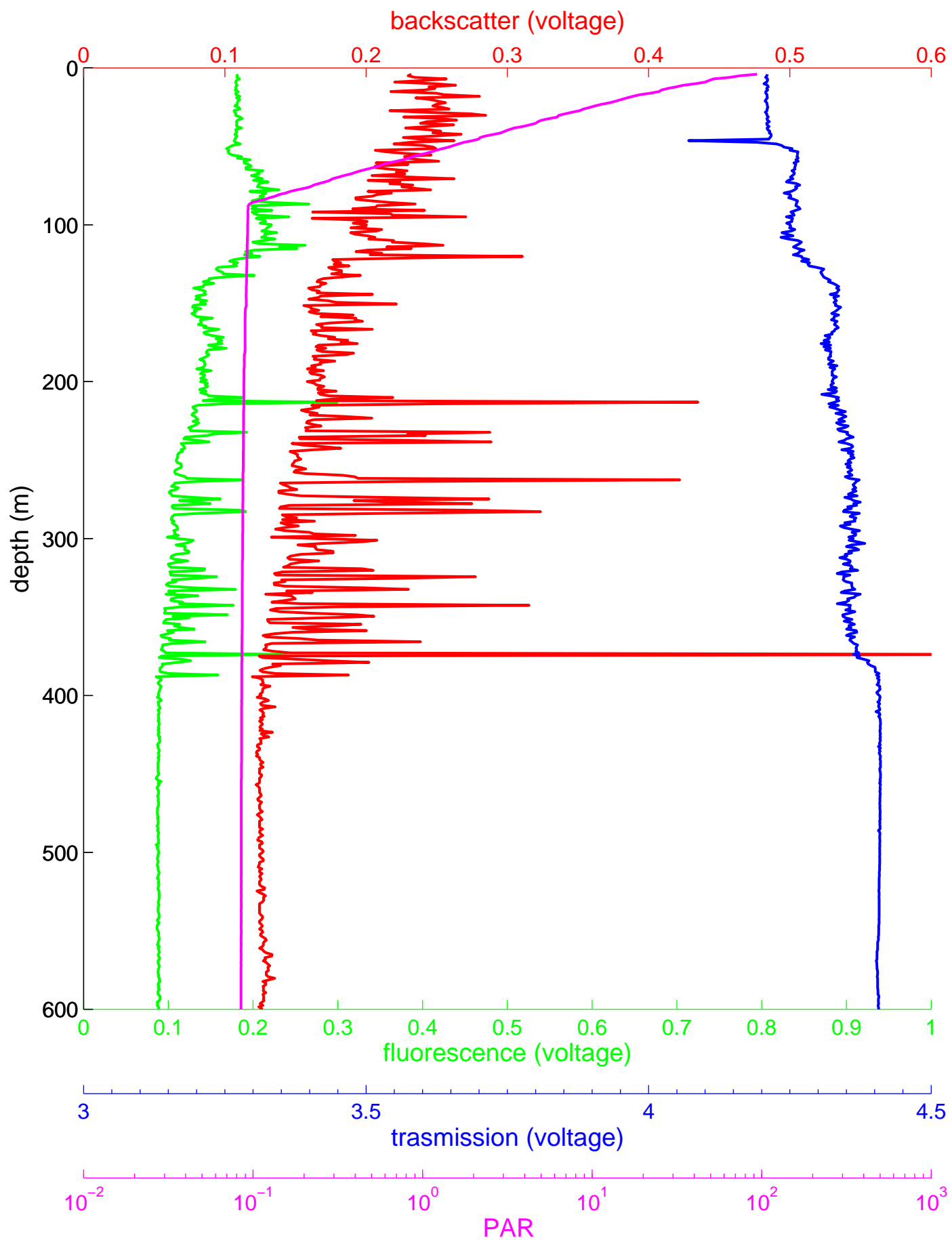
St: 31a Cast: 027 09-May-2008 08:05:41



St: 32a Cast: 028 09-May-2008 11:02:07

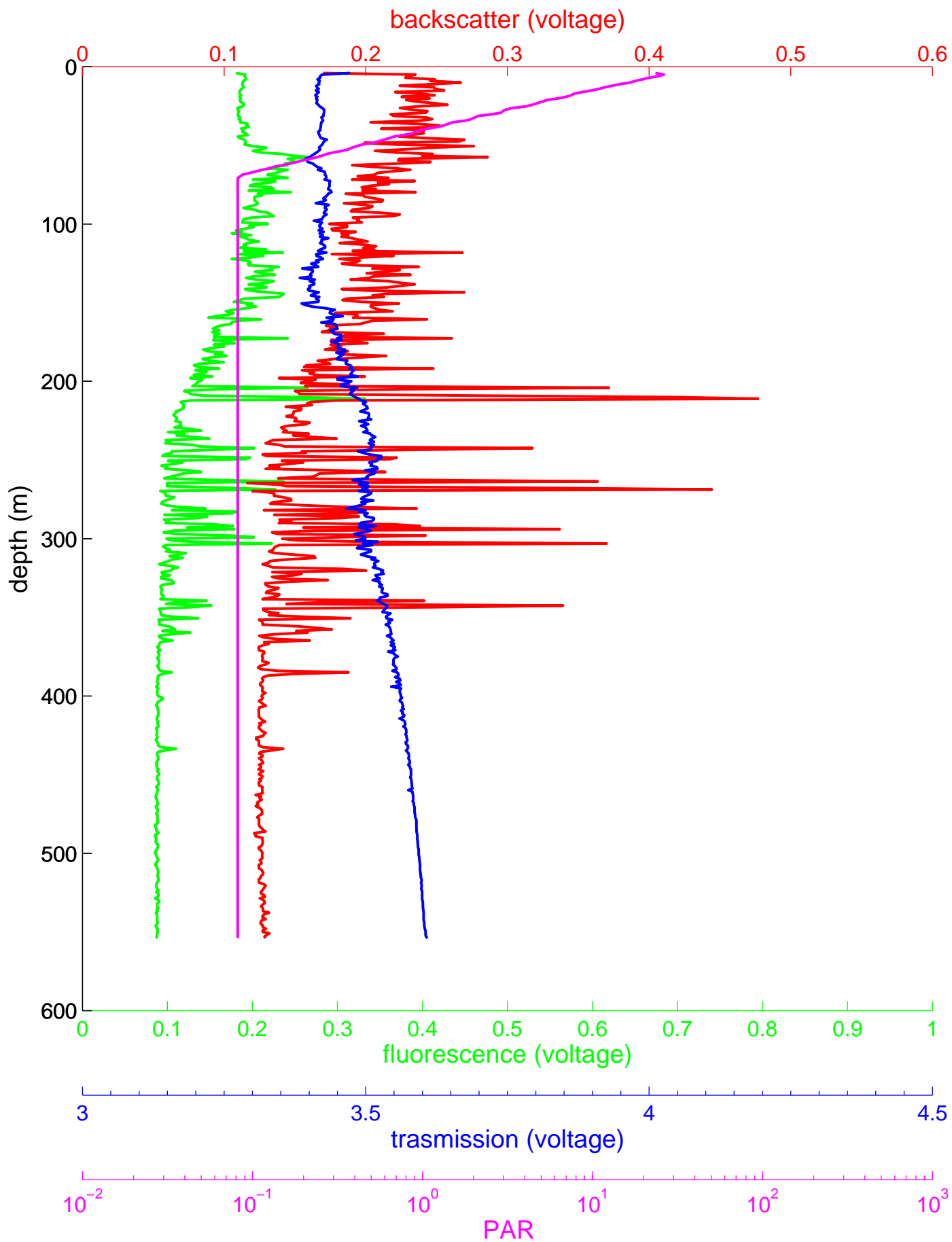


St: 33a Cast: 029 09-May-2008 14:01:38

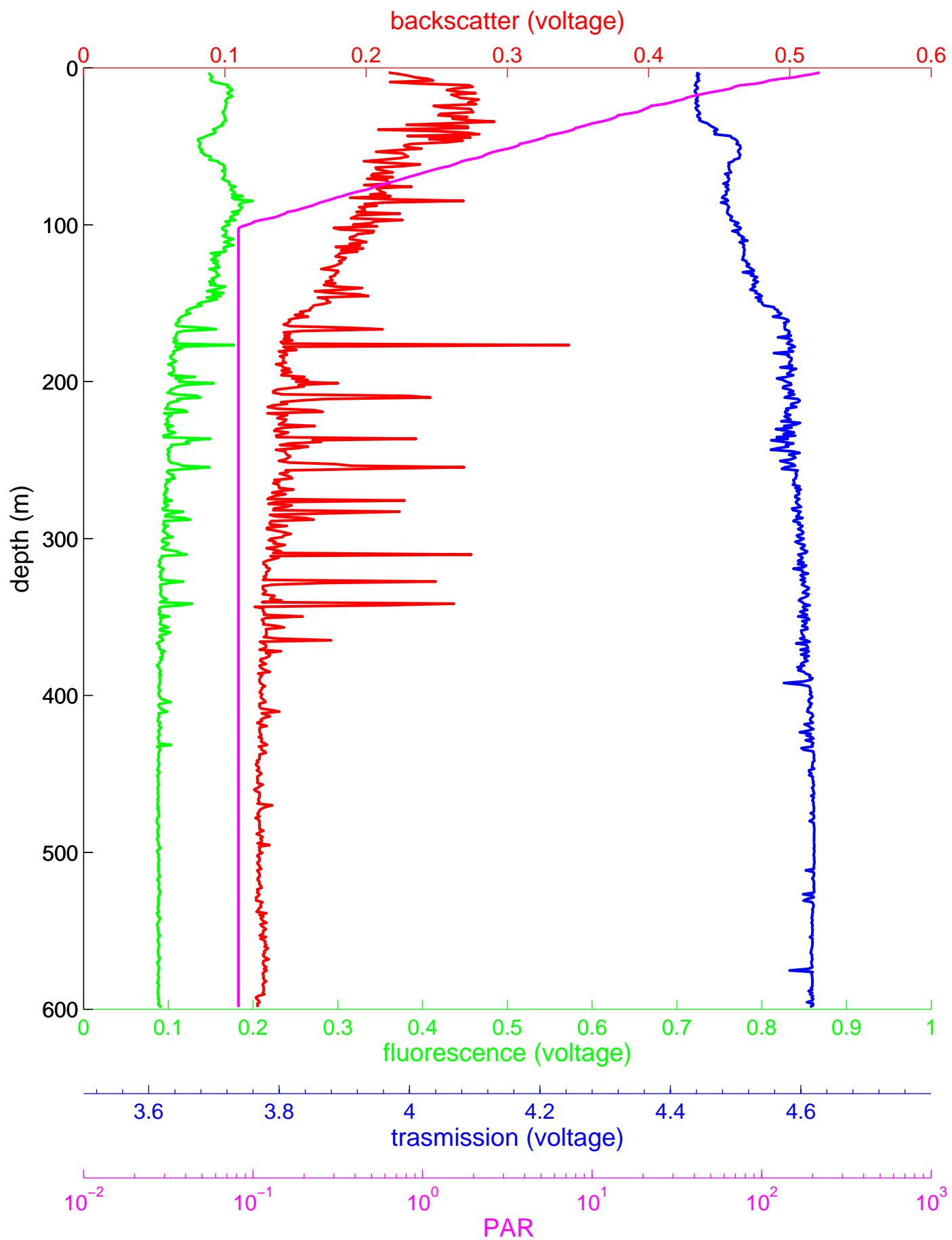




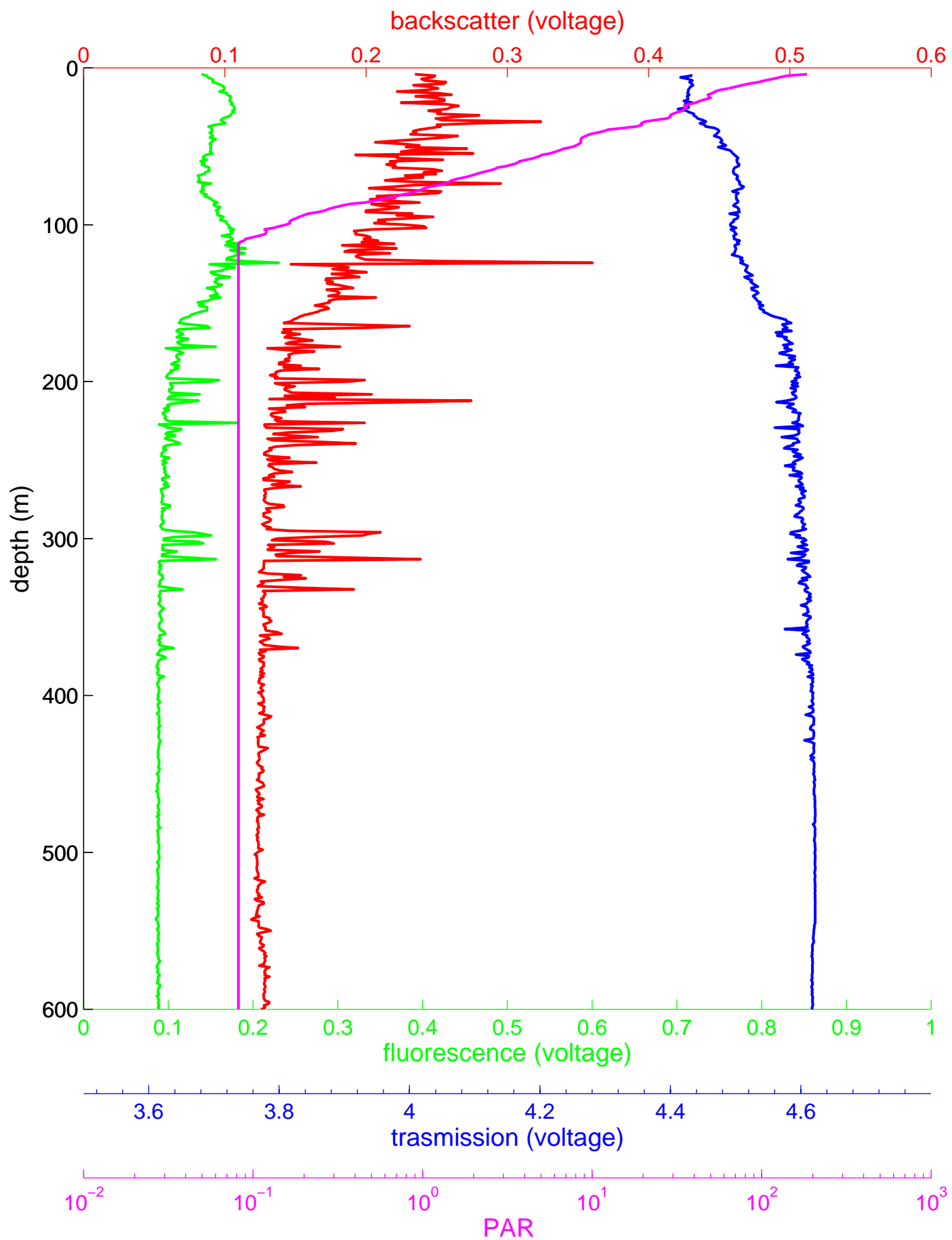
St: 33d Cast: 030 09-May-2008 20:45:43



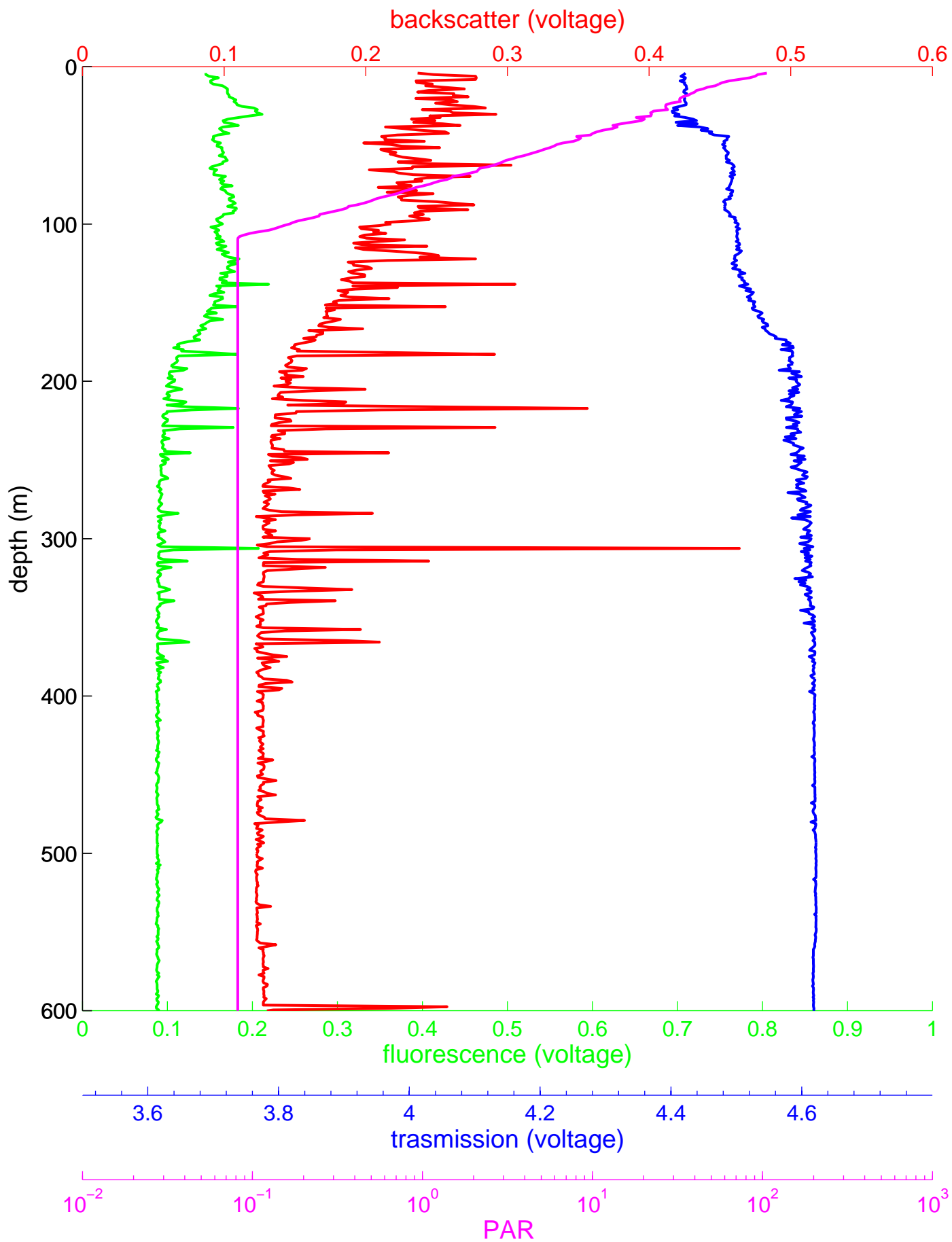
St: 34a Cast: 031 10-May-2008 09:08:40



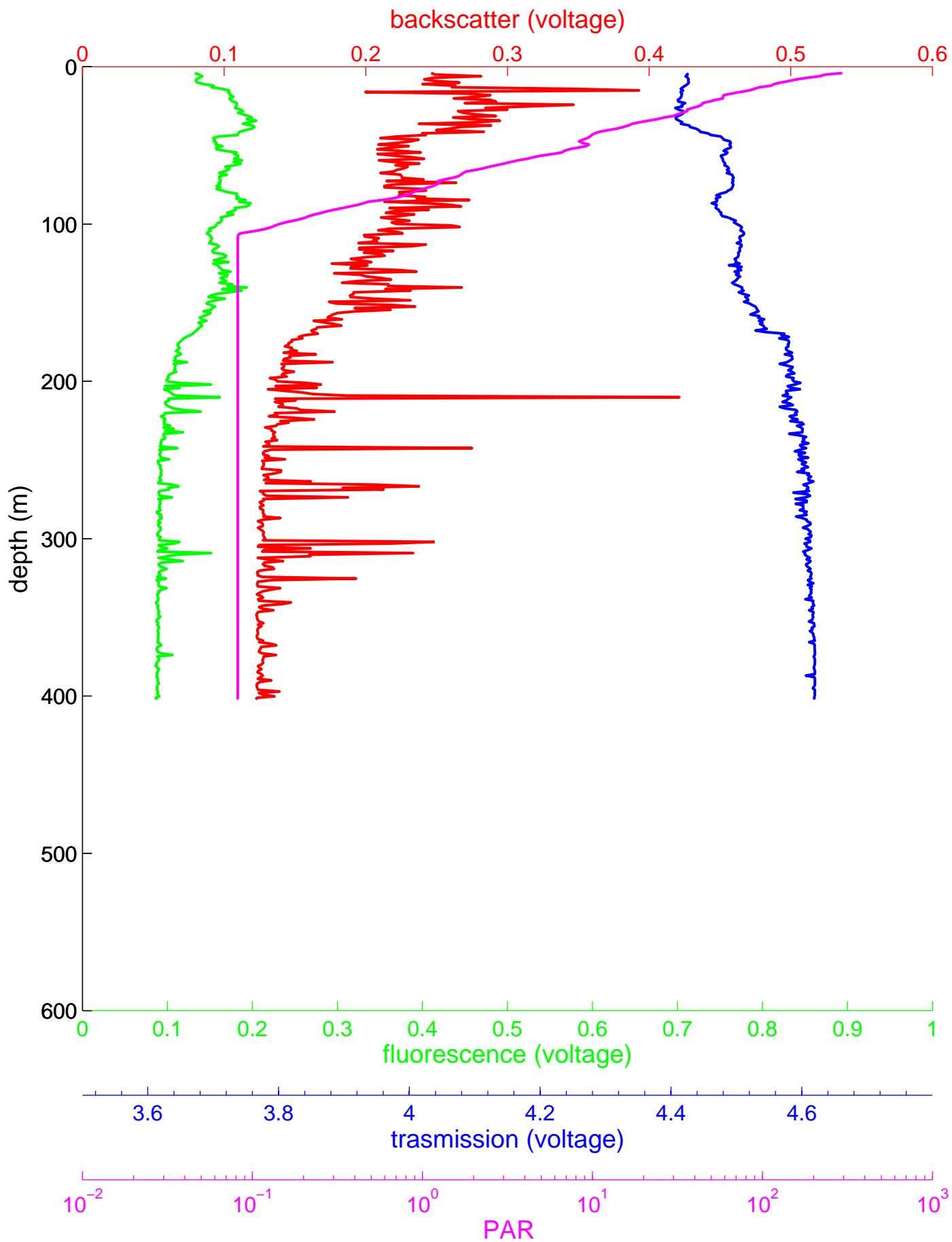
St: 34b Cast: 032 10-May-2008 09:48:15



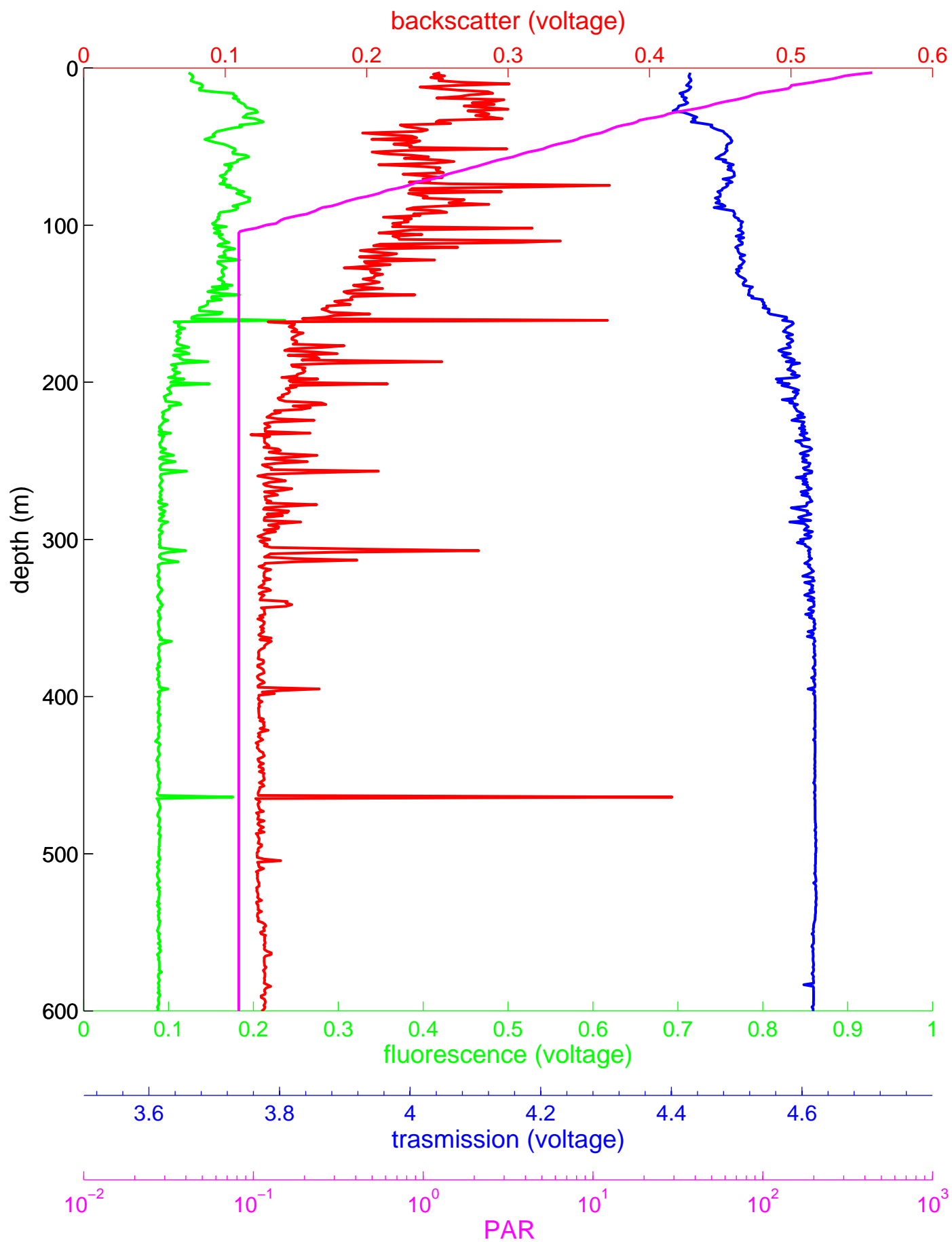
St: 34c Cast: 033 10-May-2008 10:20:34



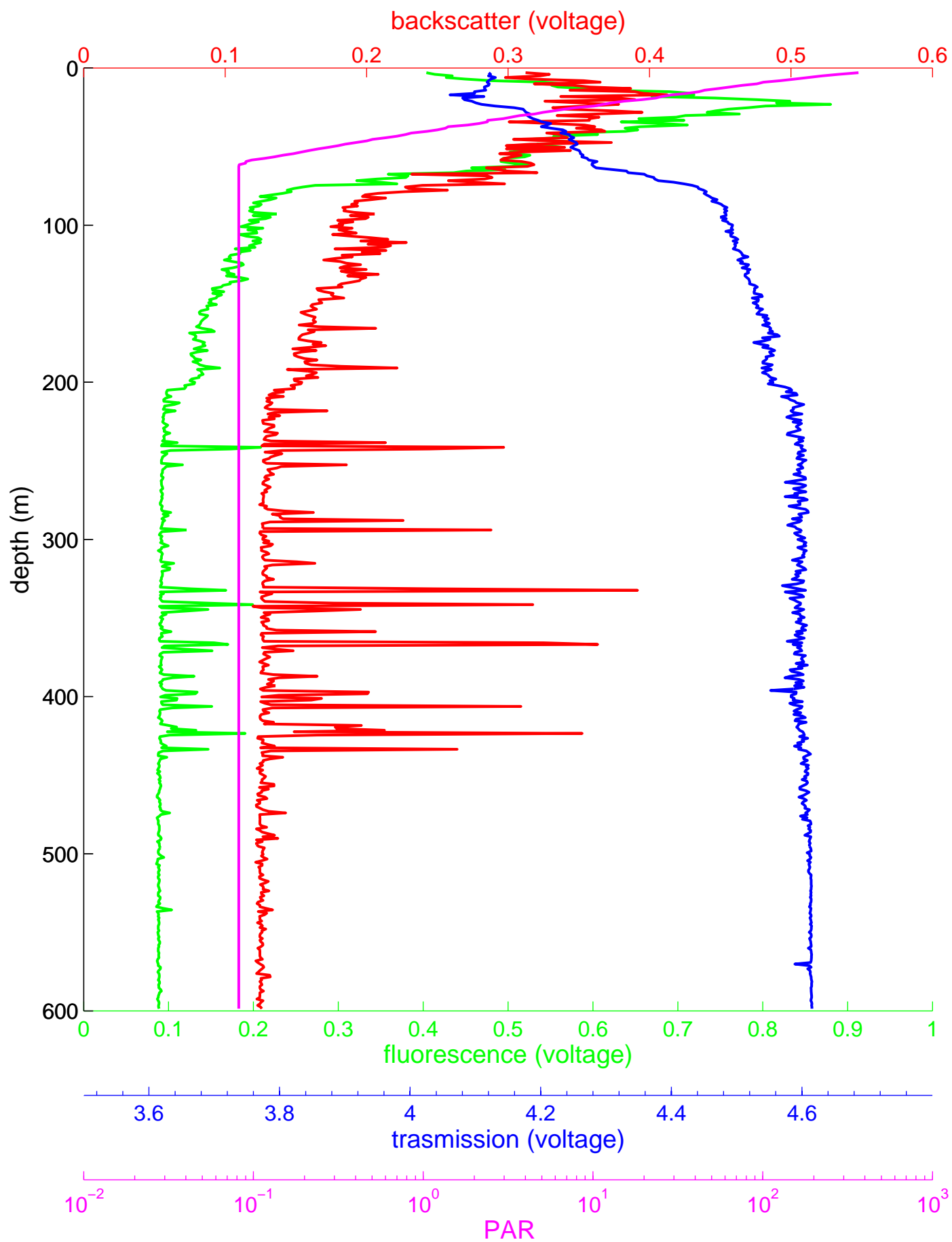
St: 34d Cast: 034 10-May-2008 10:51:49



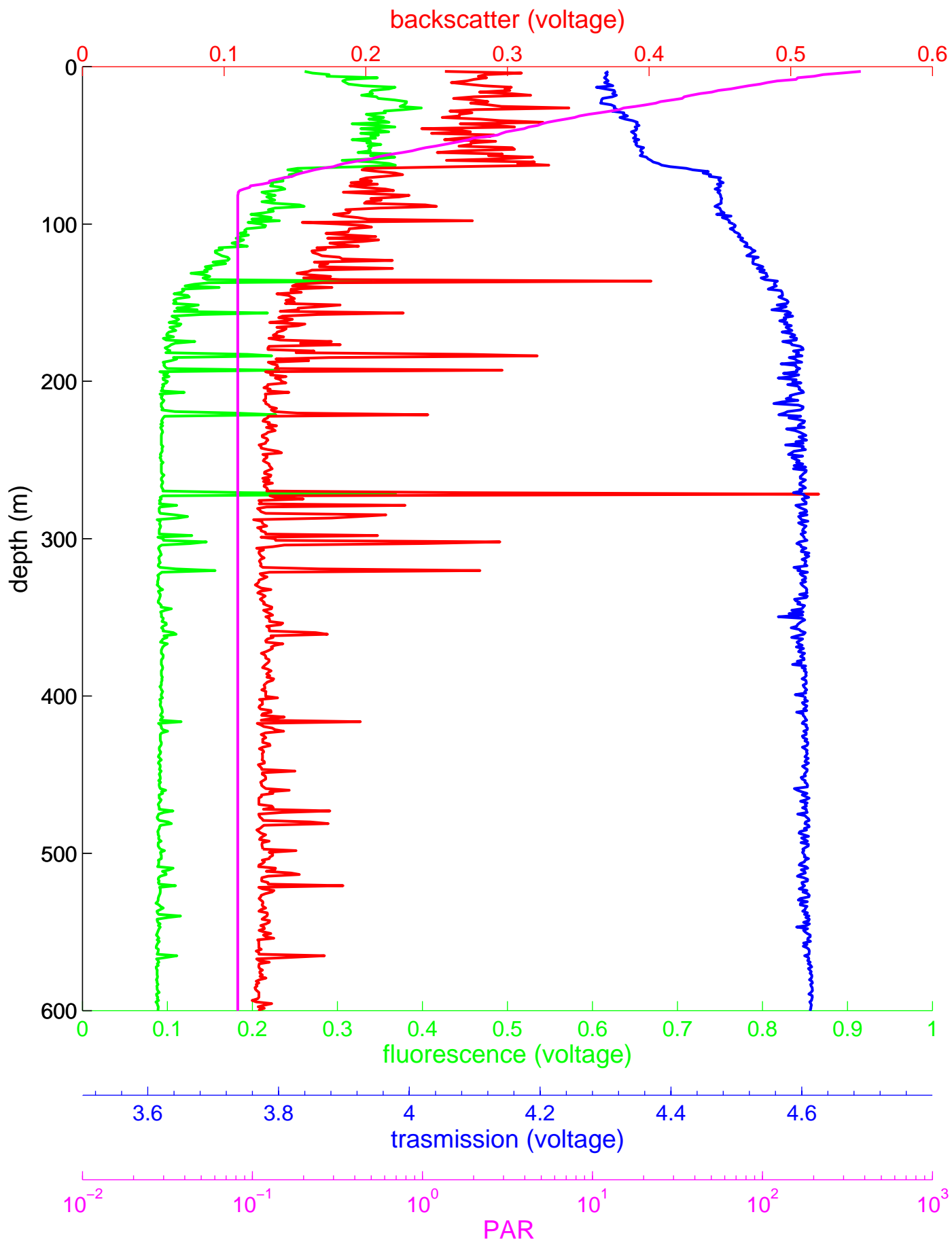
St: 34e Cast: 035 10-May-2008 11:16:04



St: 35a Cast: 036 10-May-2008 16:21:58

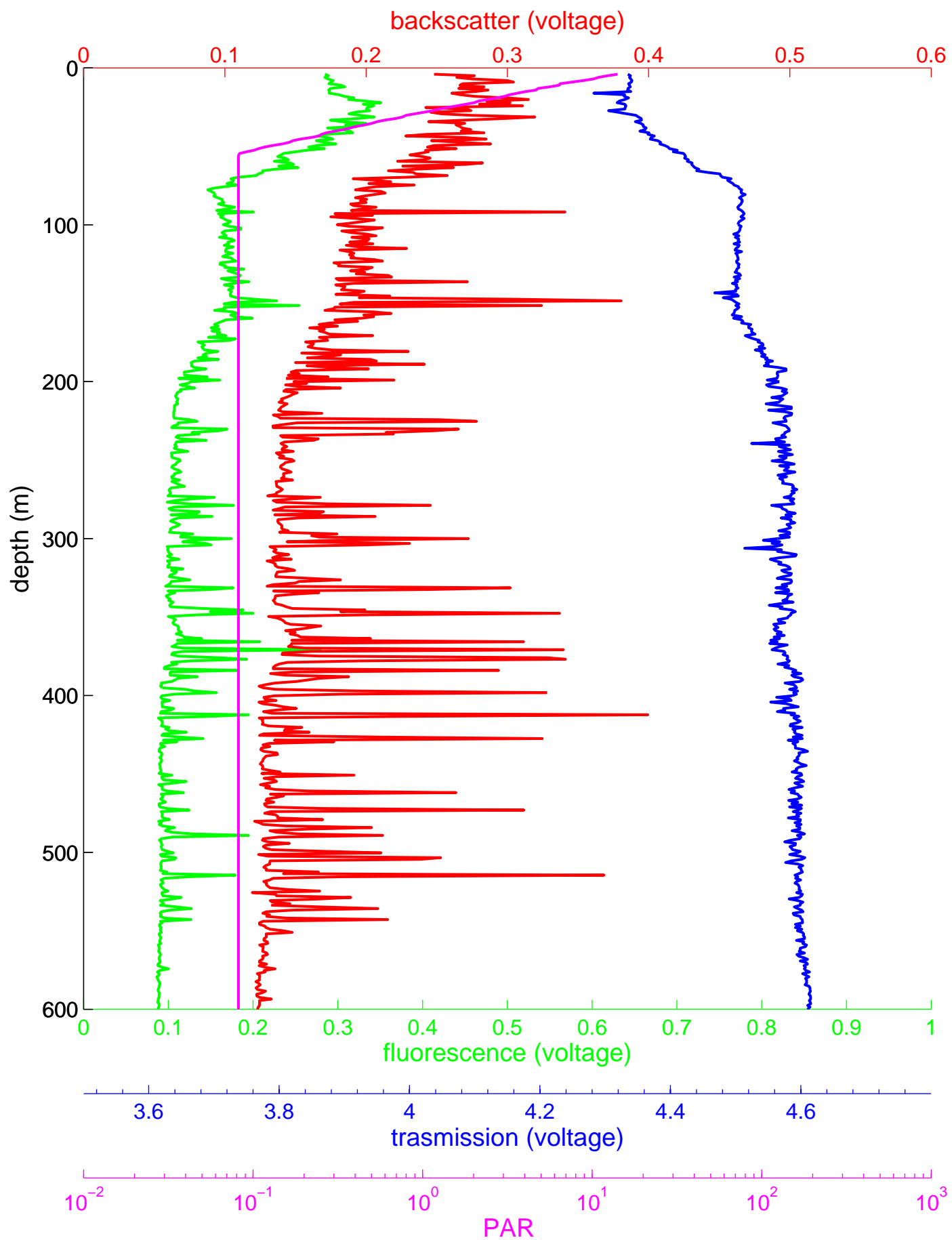


St: 36a Cast: 037 10-May-2008 18:36:06

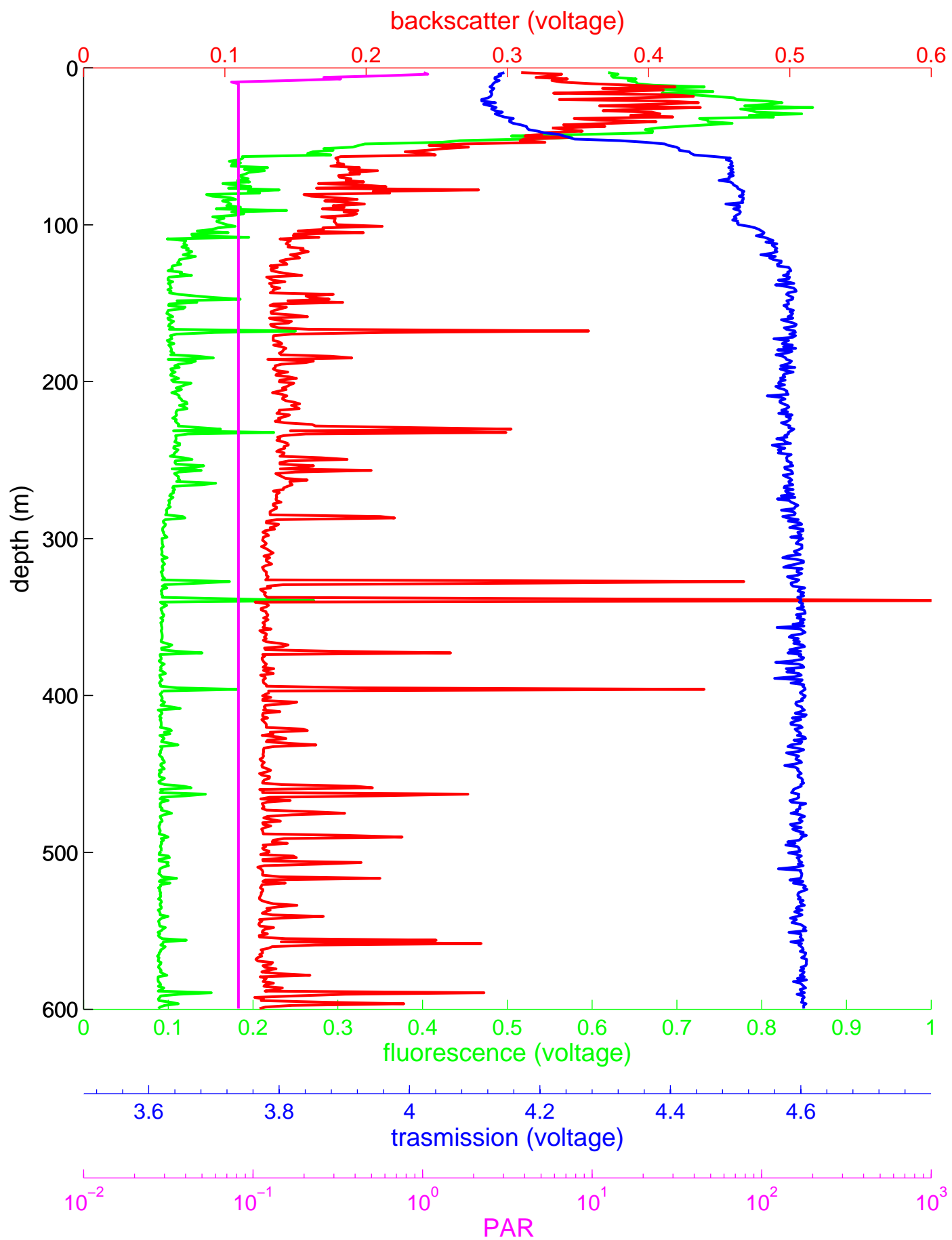




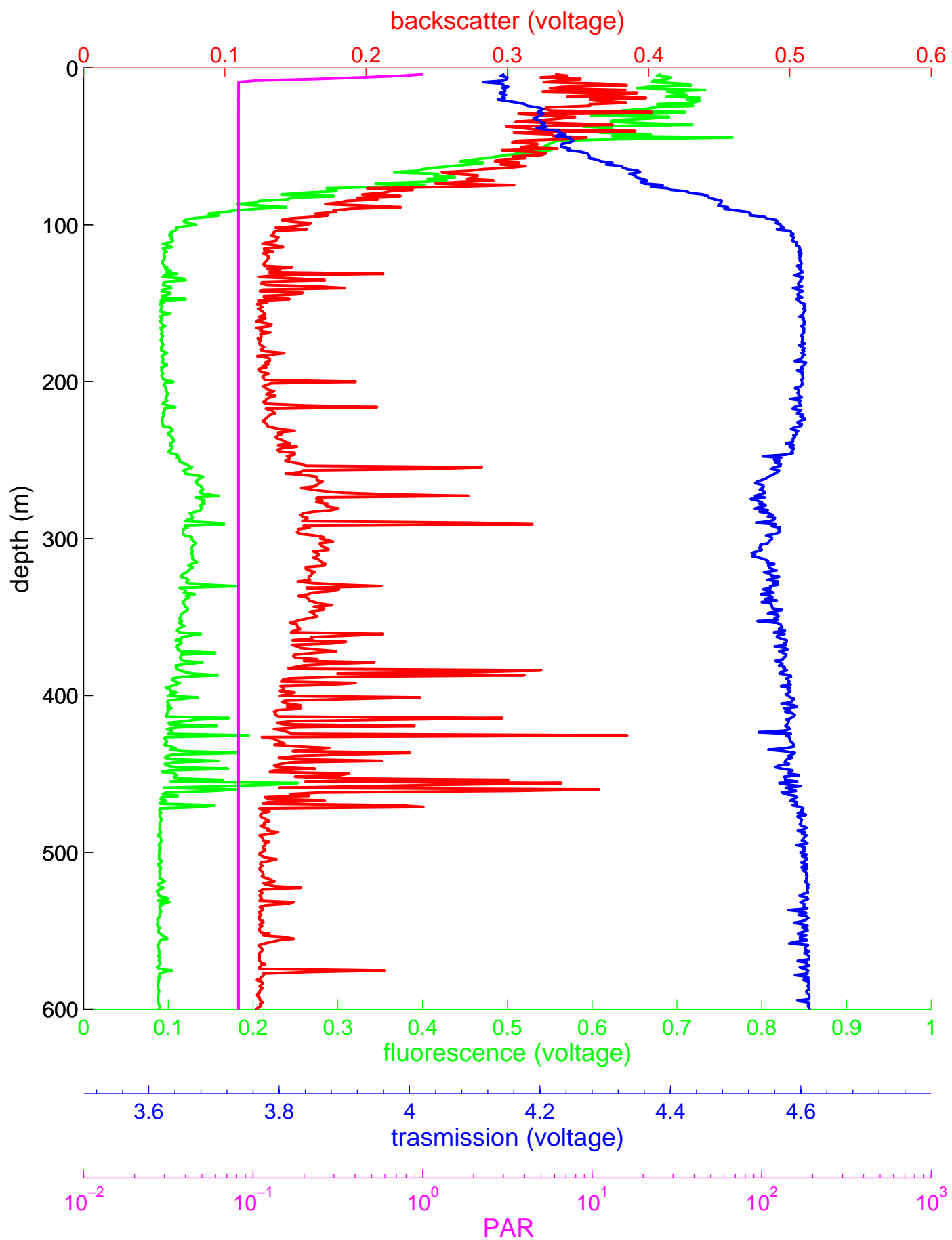
St: 37a Cast: 038 10-May-2008 21:07:03



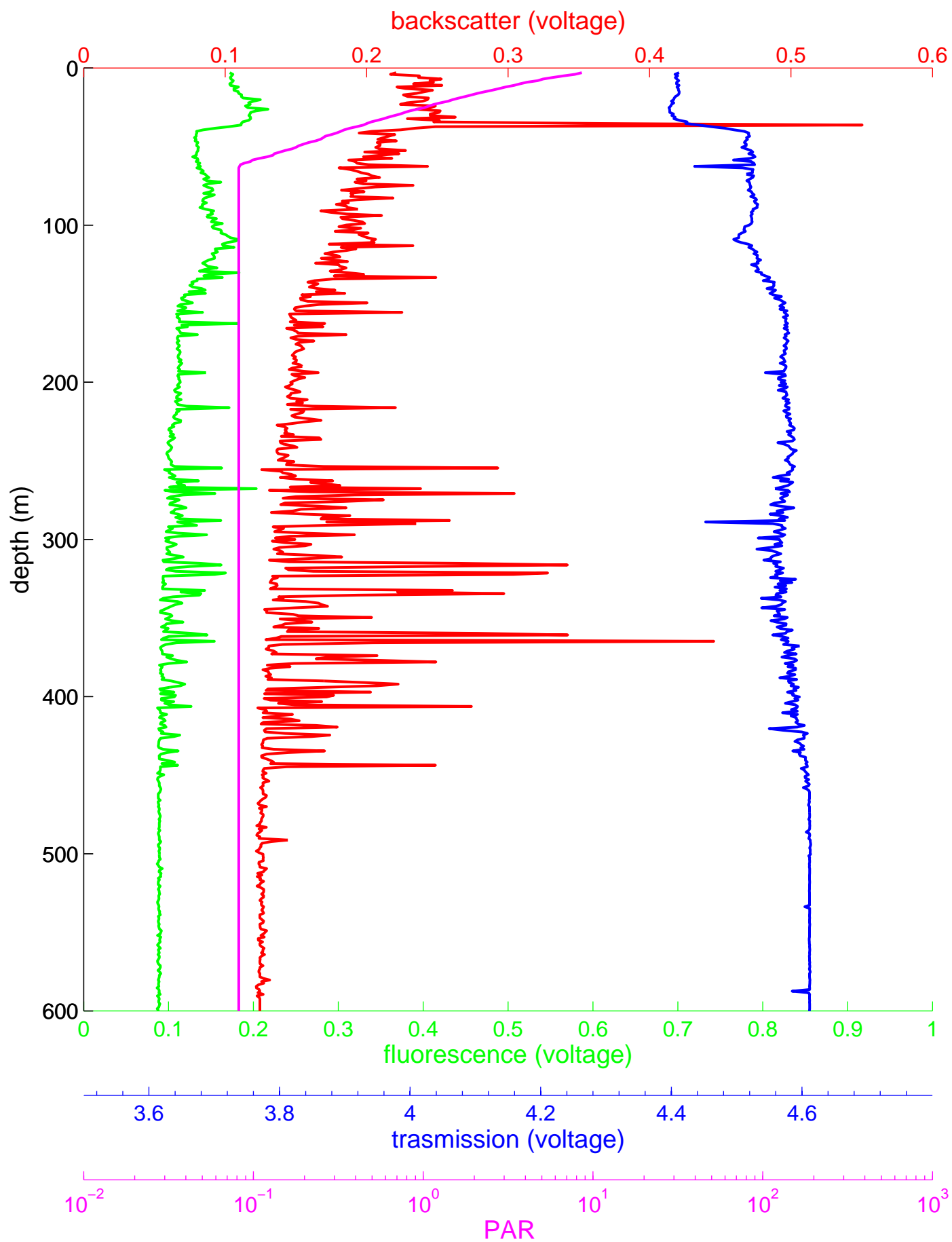
St: 38a Cast: 039 10-May-2008 23:22:02



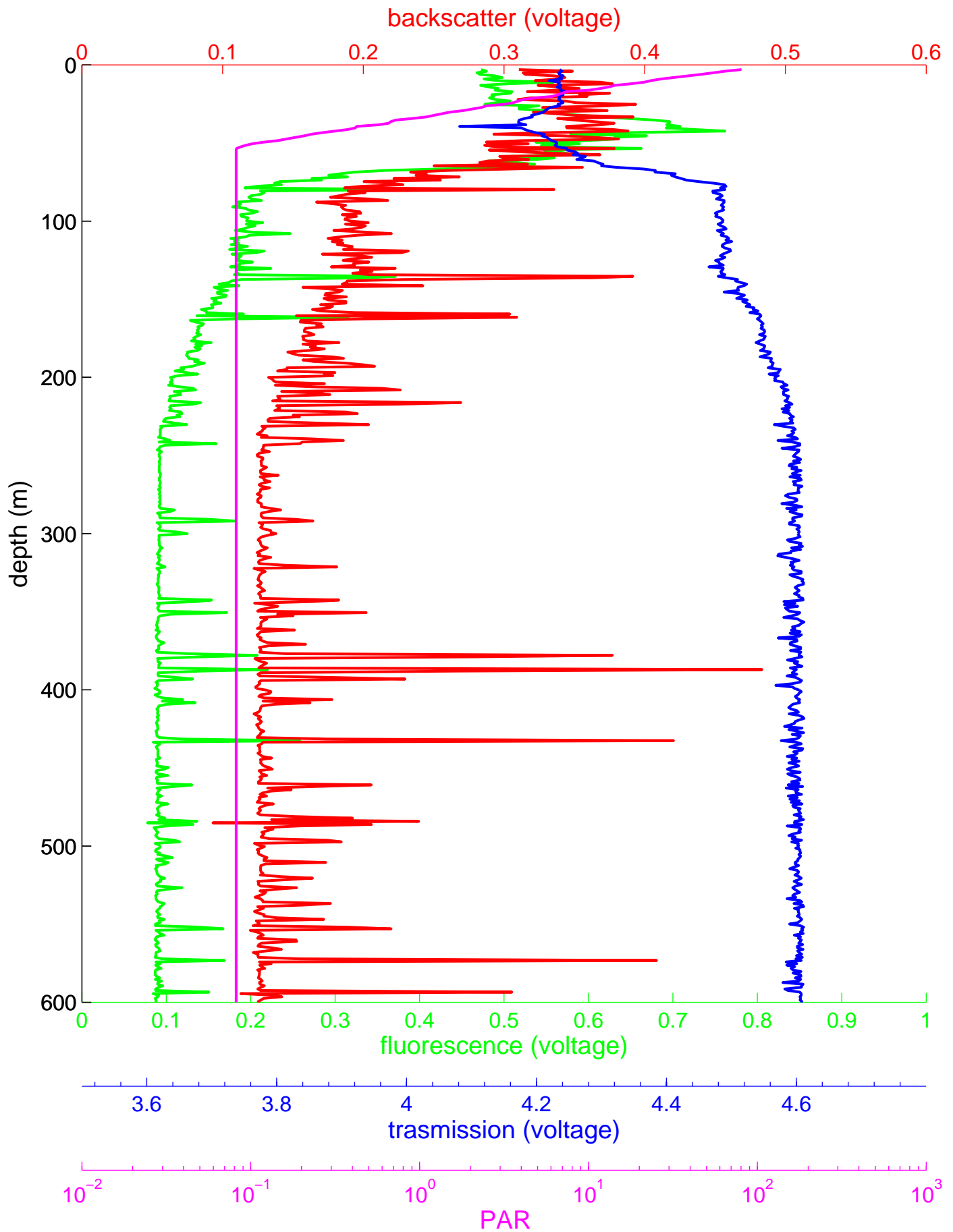
St: 39a Cast: 040 11-May-2008 03:10:42



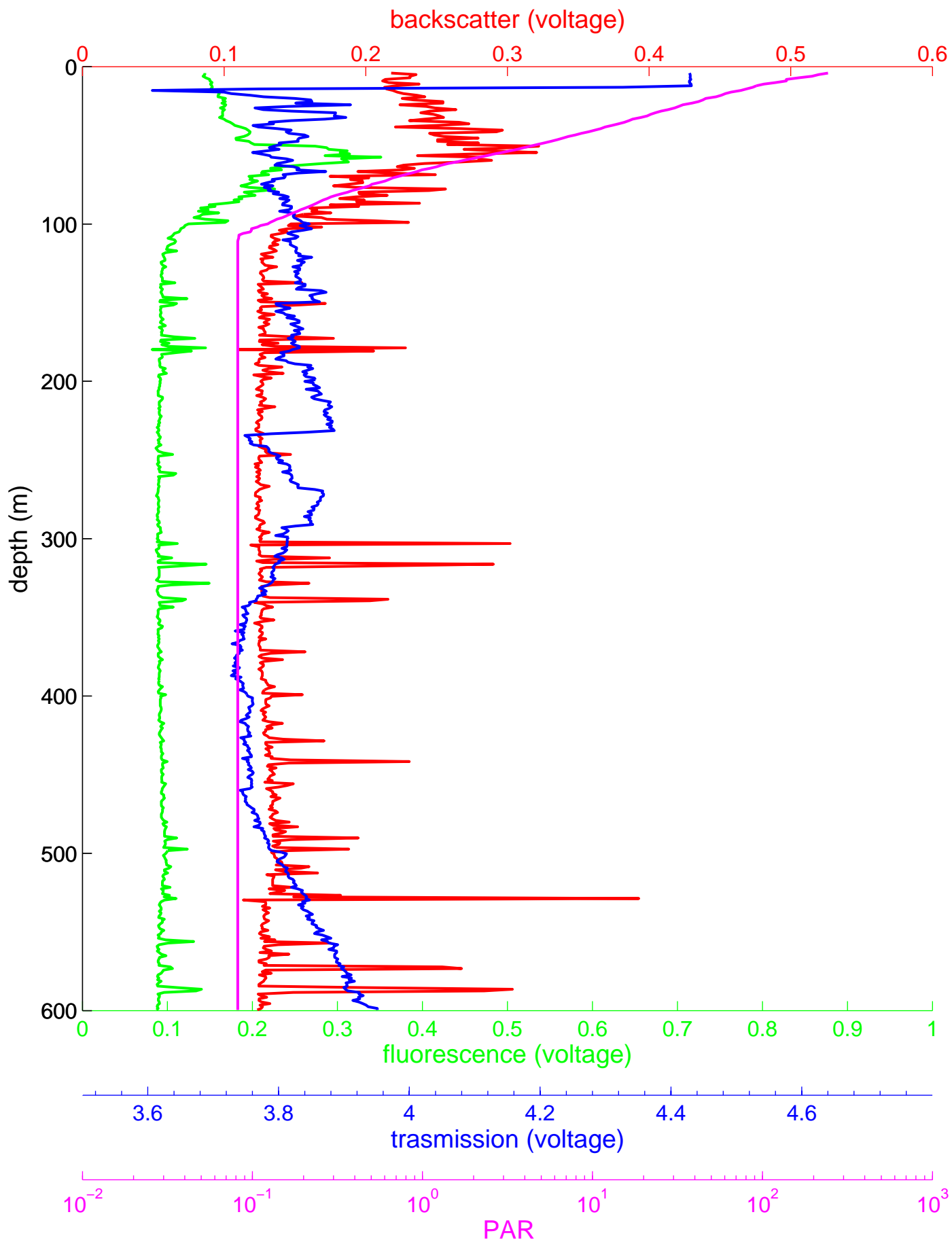
St: 40a Cast: 041 11-May-2008 05:40:28



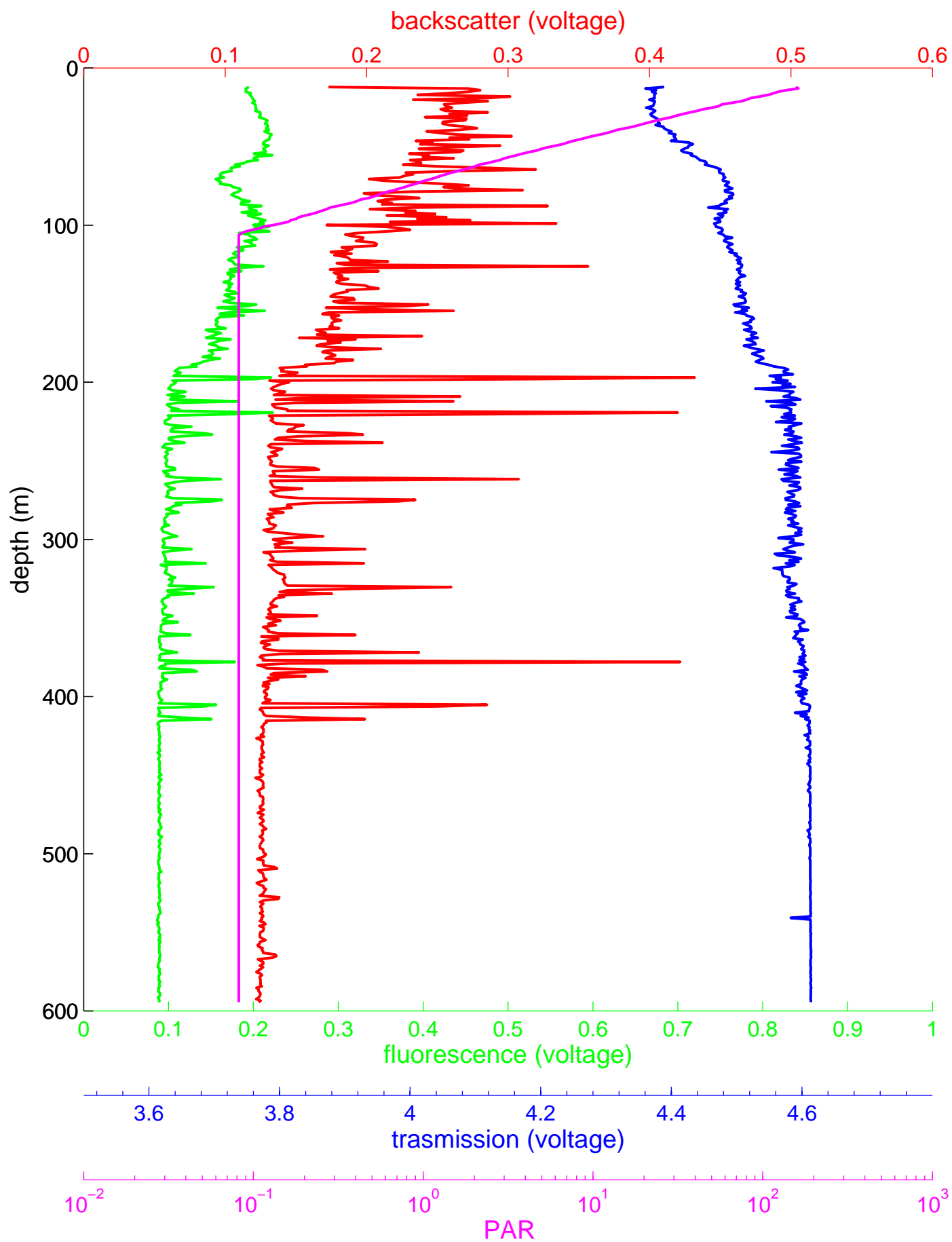
St: 41a Cast: 042 11-May-2008 08:01:22



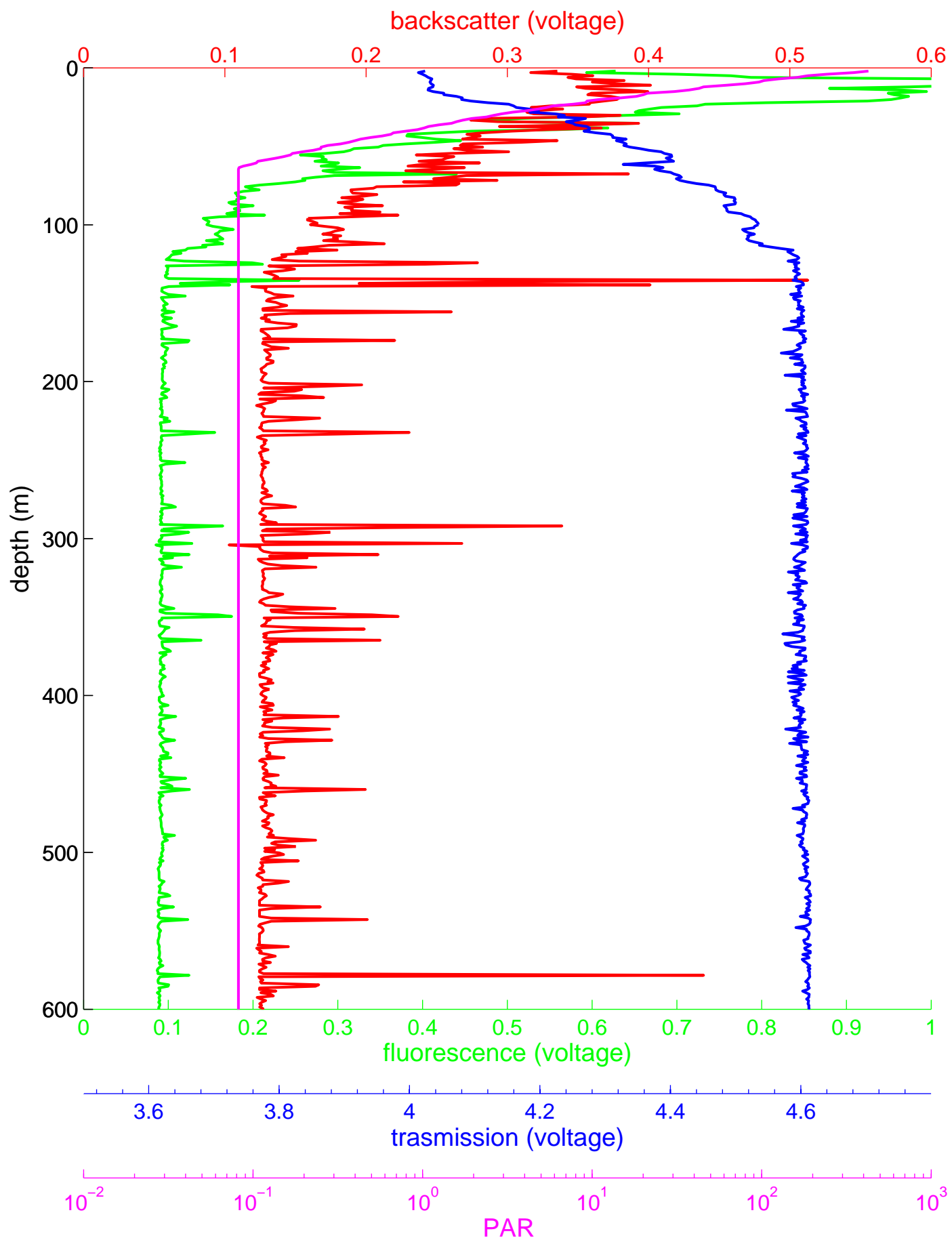
St: 42a Cast: 043 11-May-2008 11:10:22



St: 43a Cast: 044 11-May-2008 14:32:58

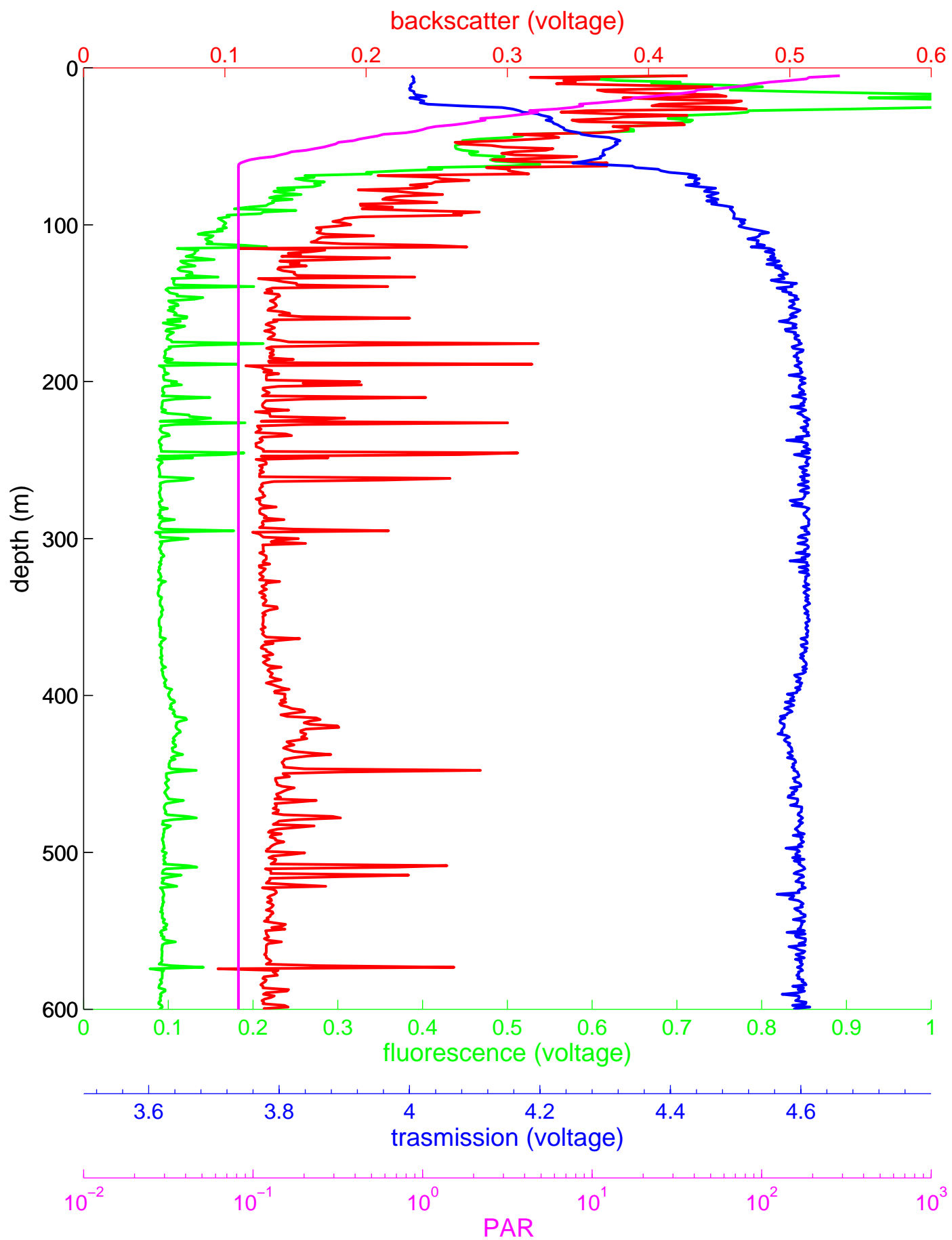


St: 44a Cast: 045 11-May-2008 16:13:23

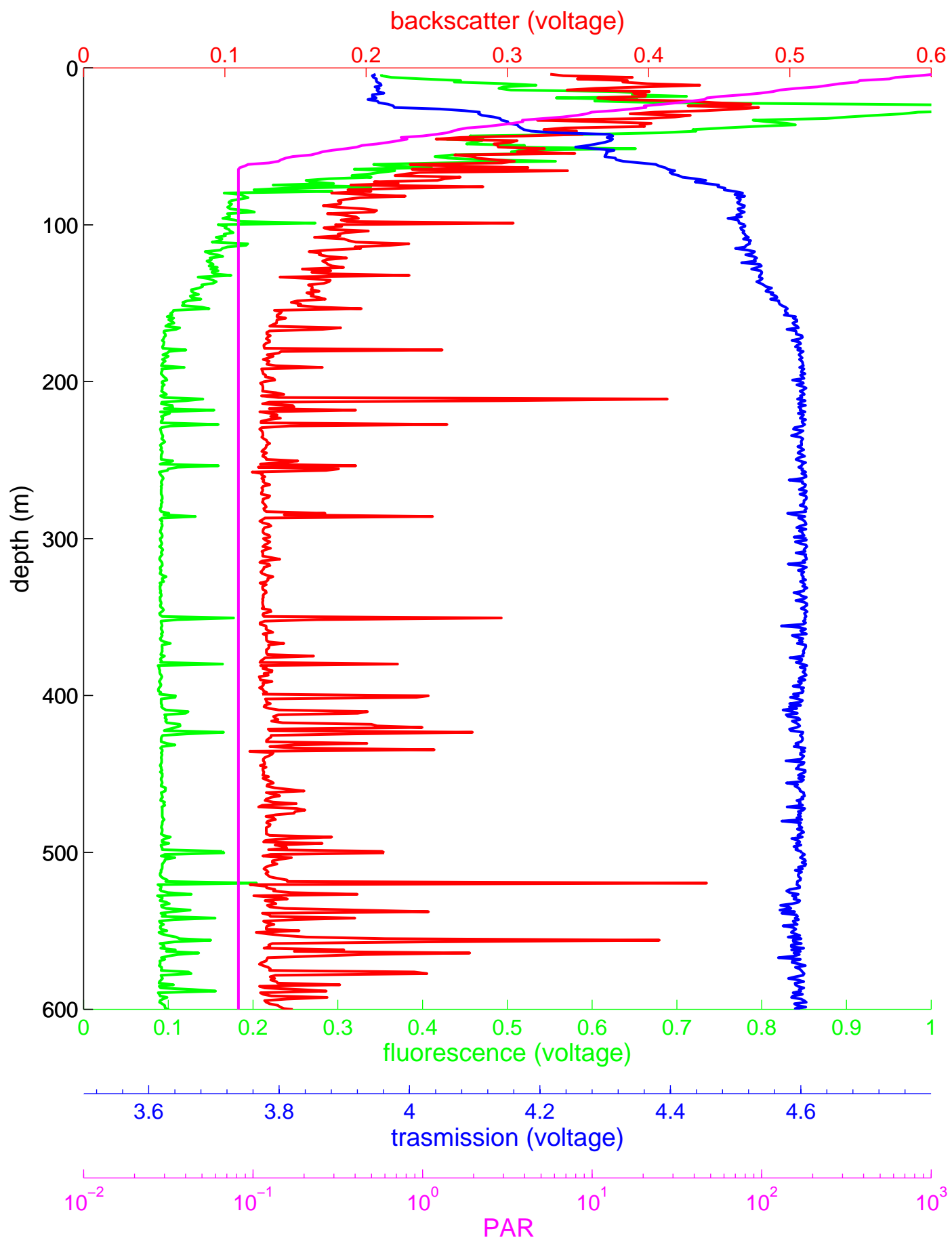




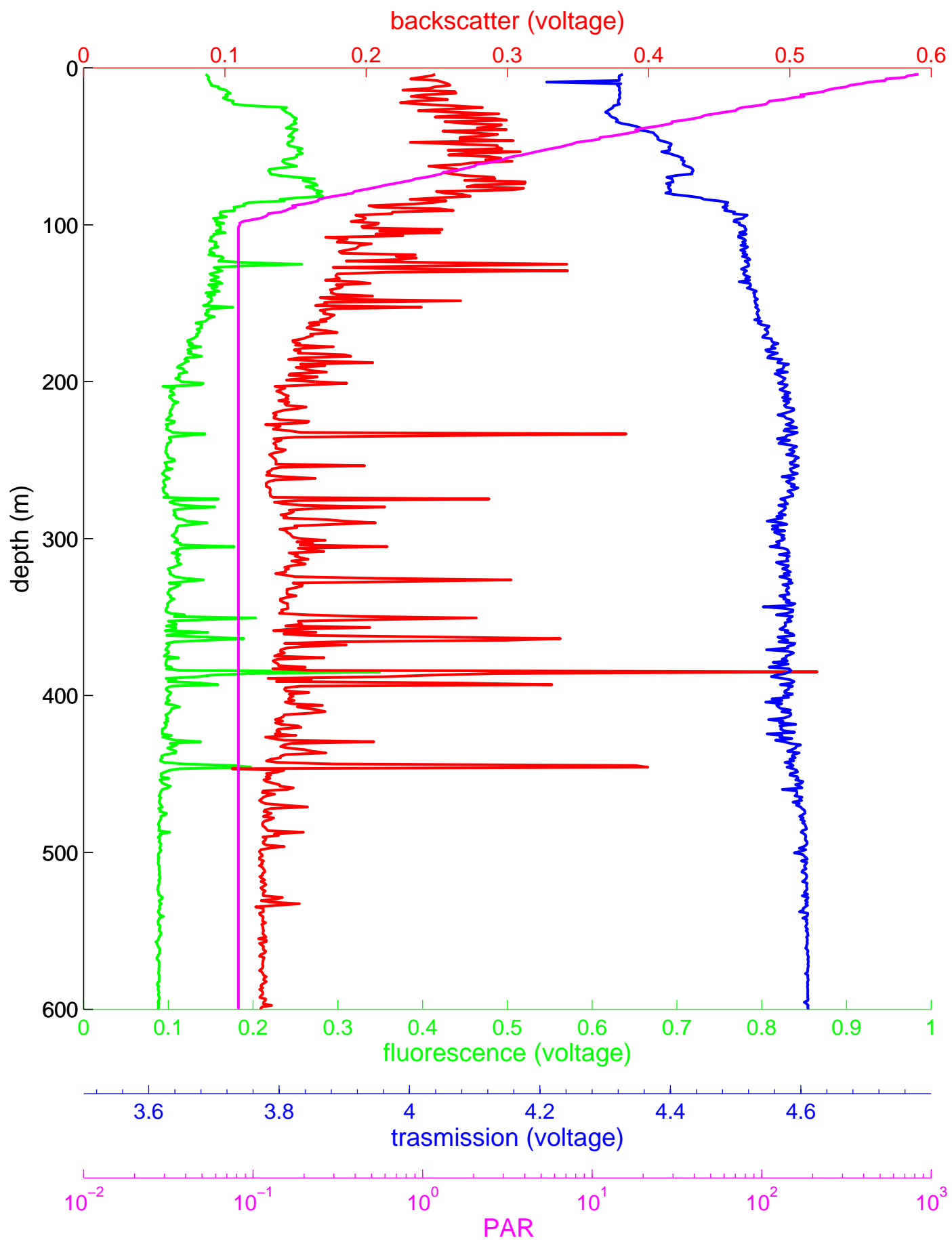
St: 50a Cast: 046 12-May-2008 11:05:16



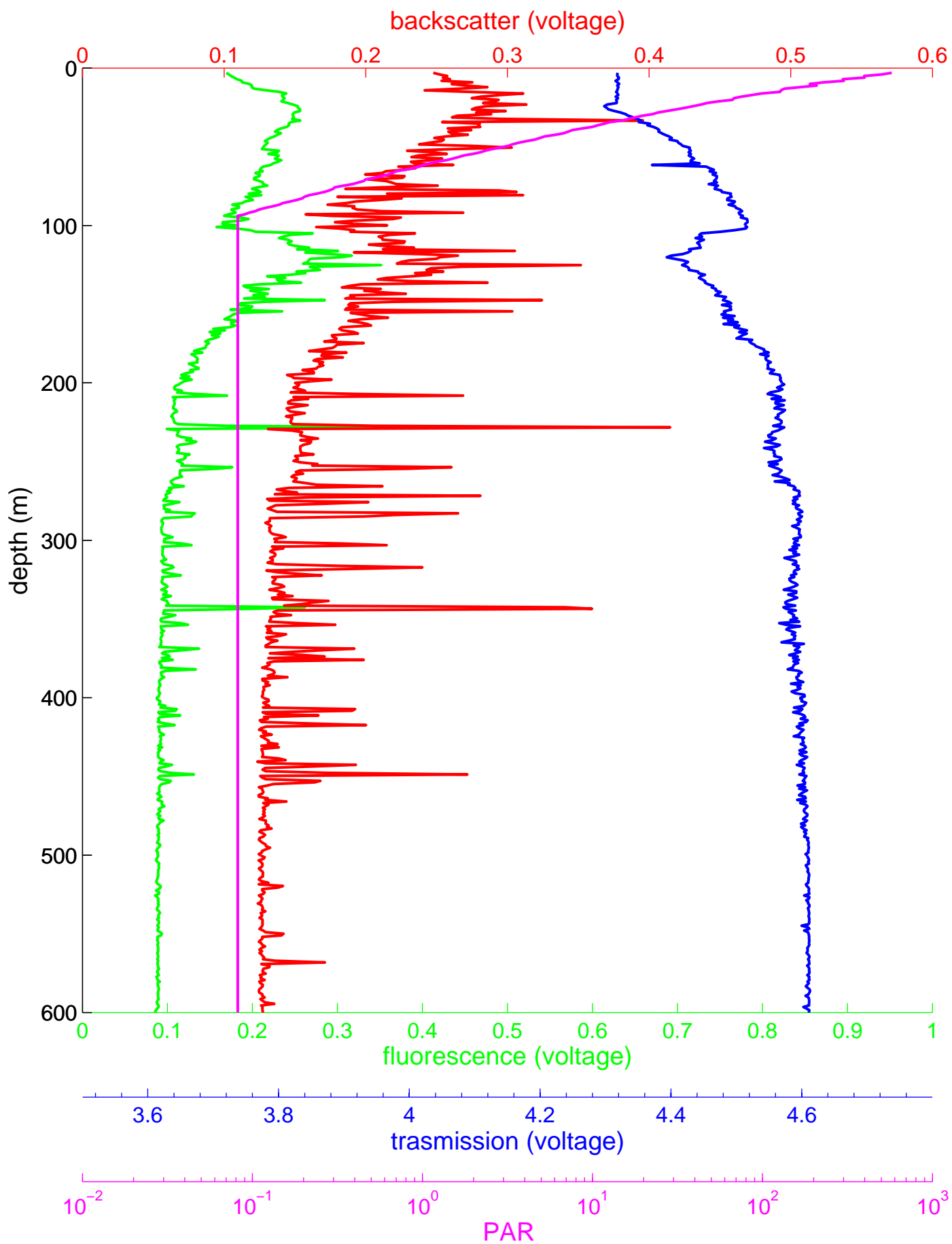
St: 51a Cast: 047 12-May-2008 16:06:36



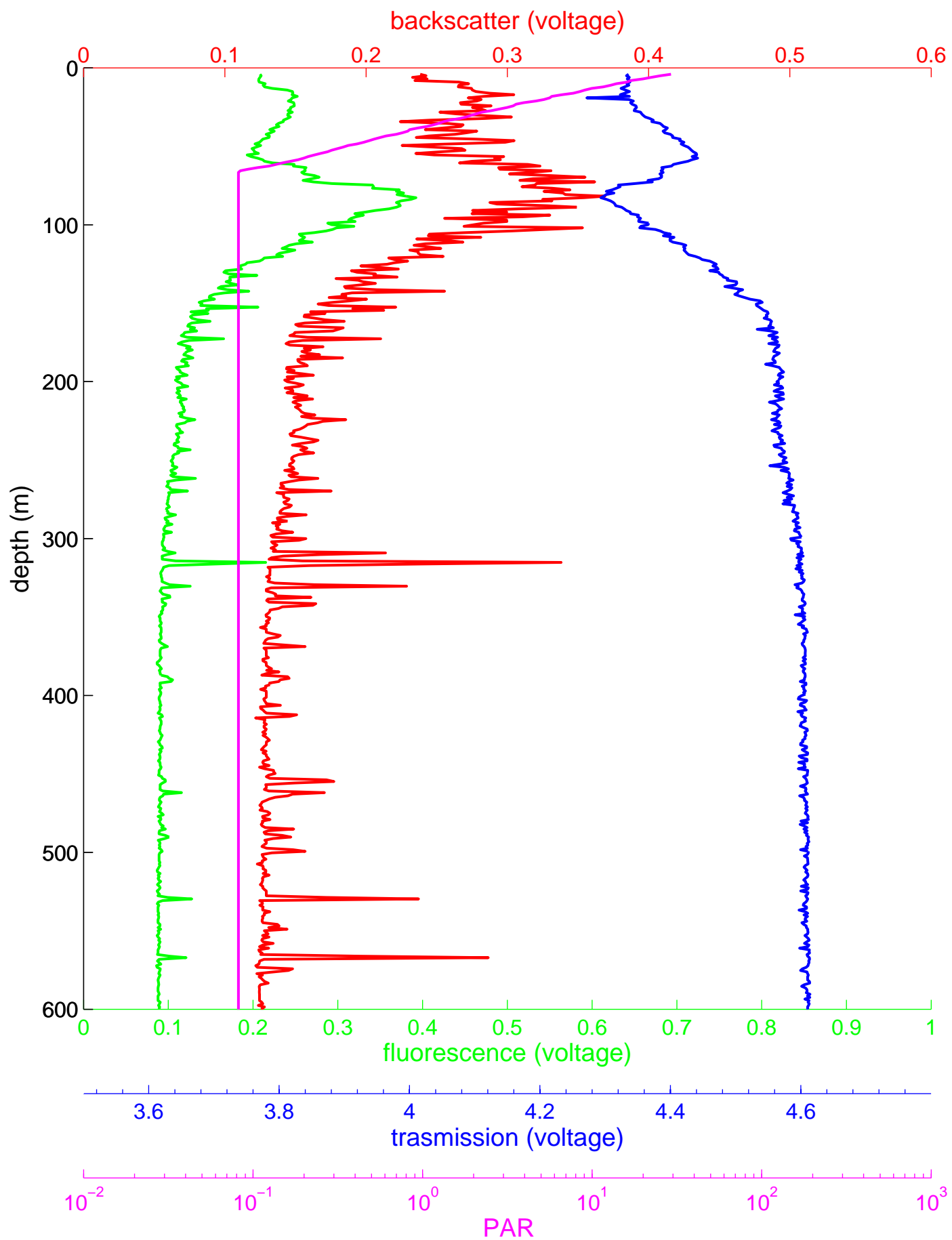
St: 52a Cast: 048 12-May-2008 17:41:52



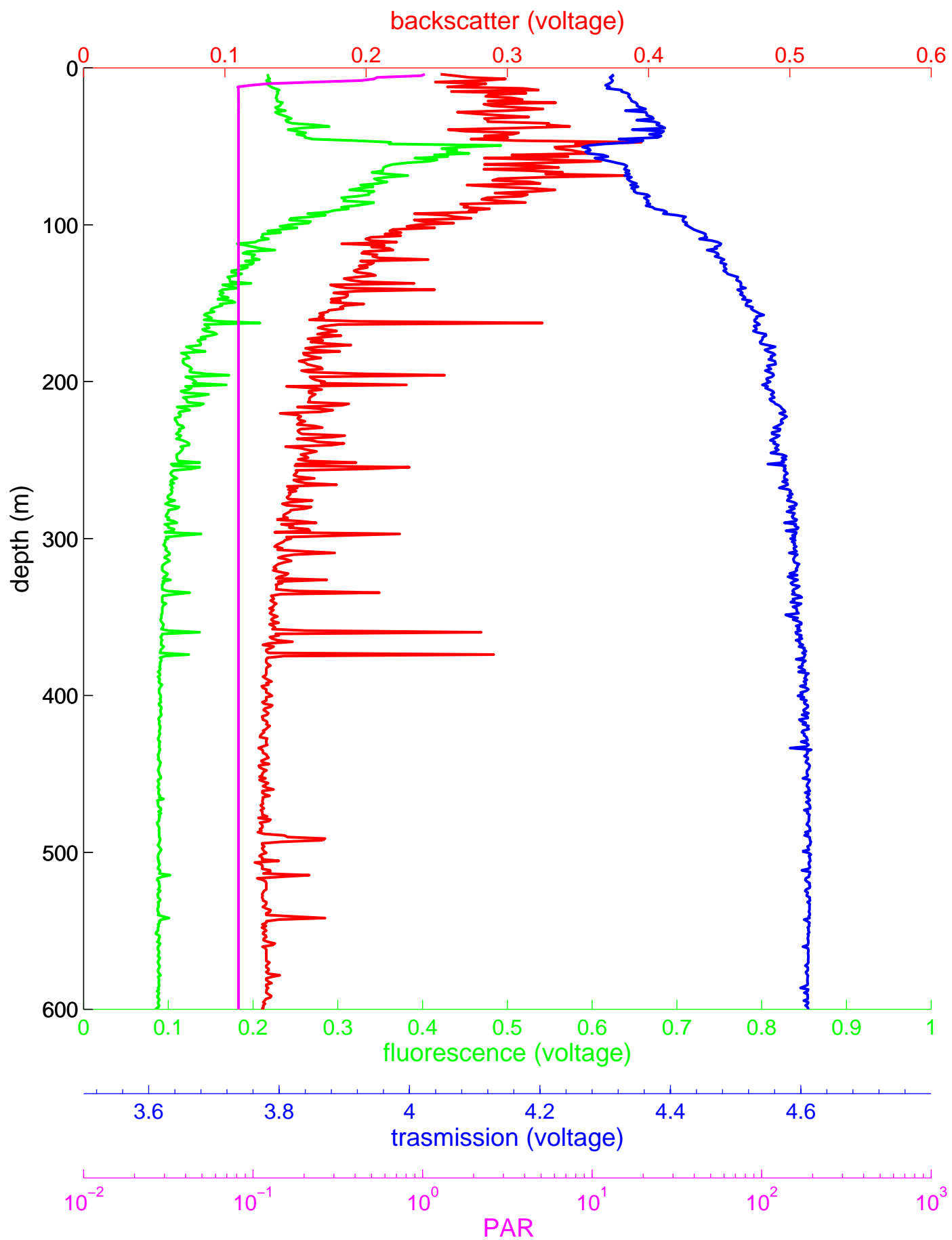
St: 53a Cast: 049 12-May-2008 19:13:31



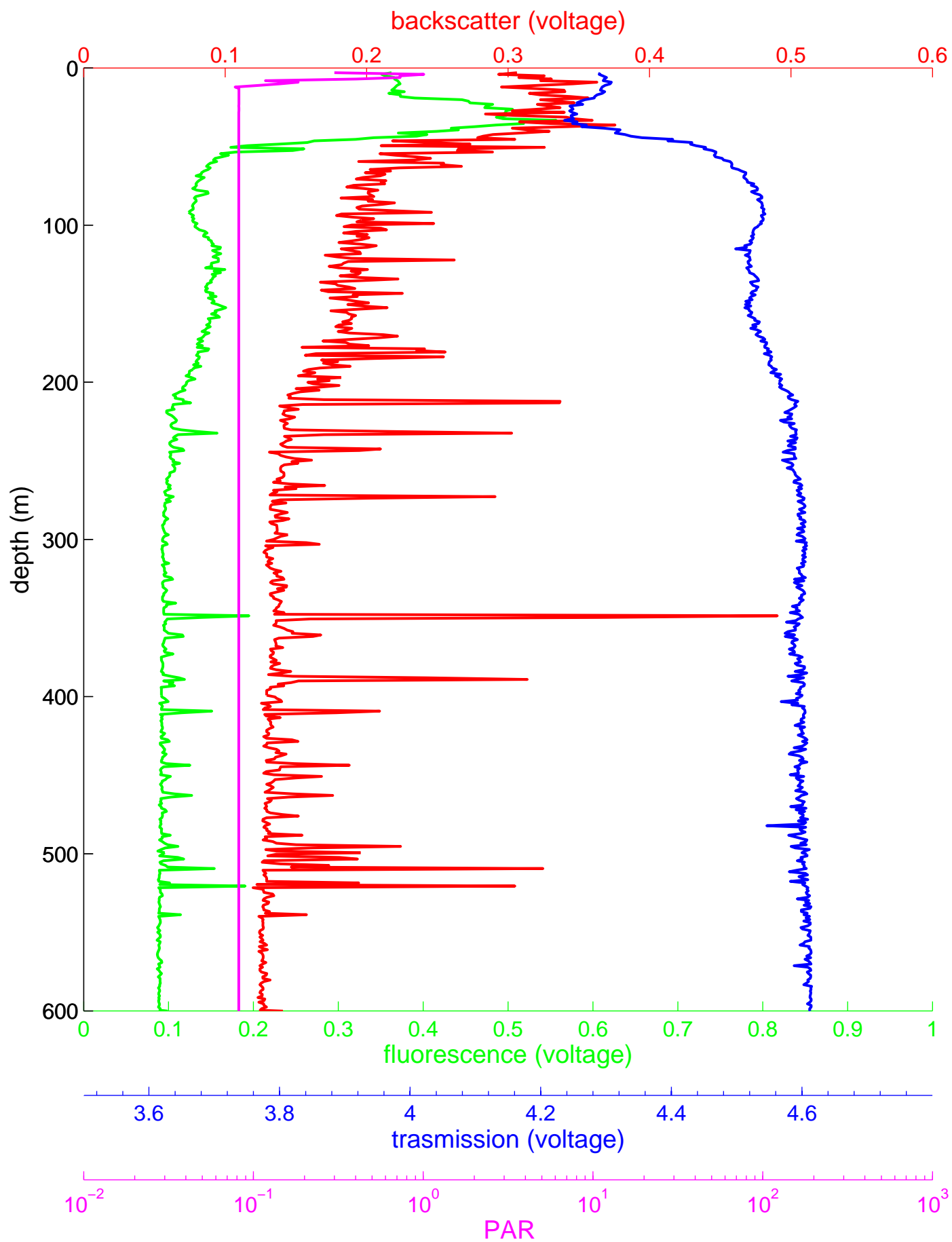
St: 54a Cast: 050 12-May-2008 21:27:52



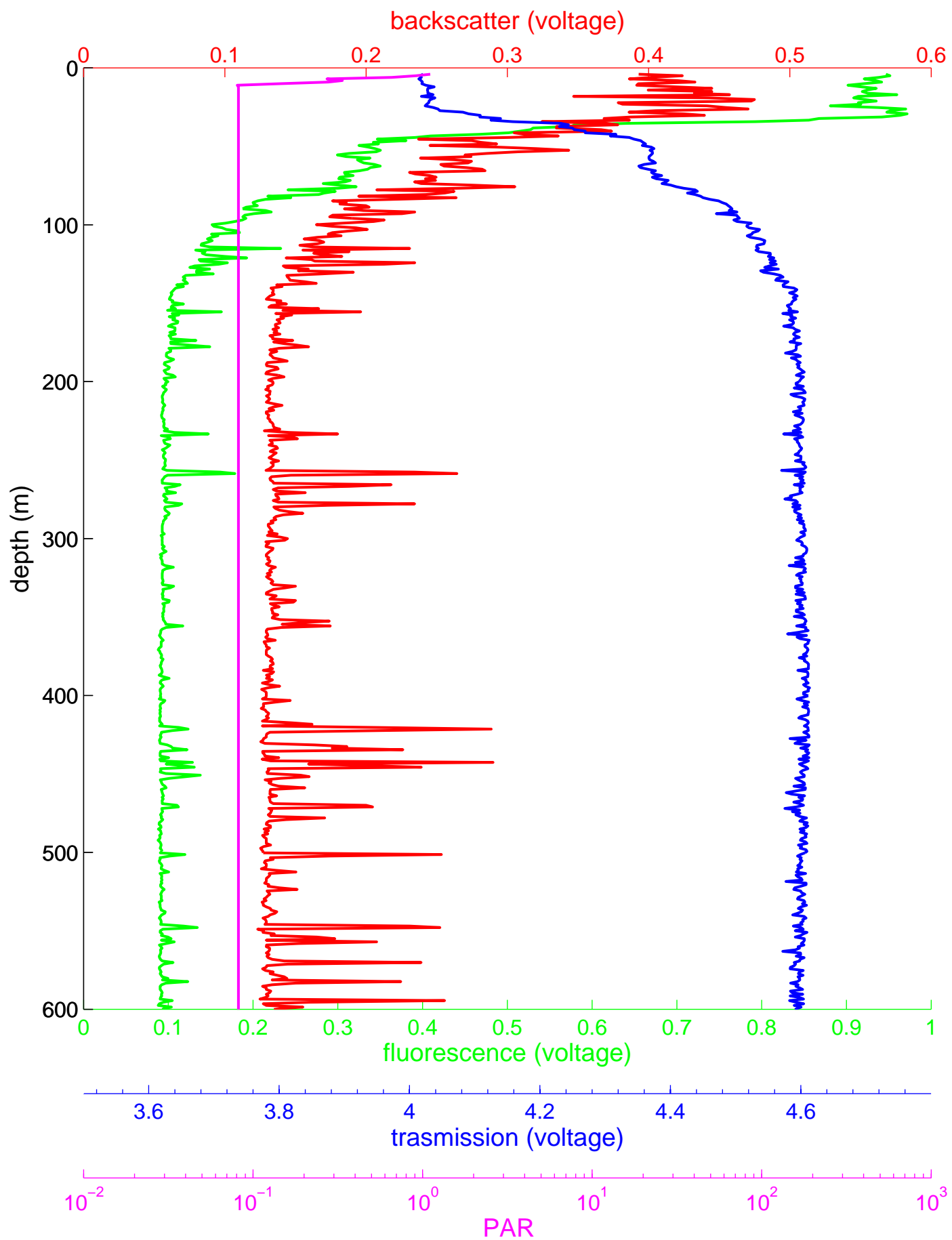
St: 55a Cast: 051 12-May-2008 23:40:03



St: 56a Cast: 052 13-May-2008 02:39:35

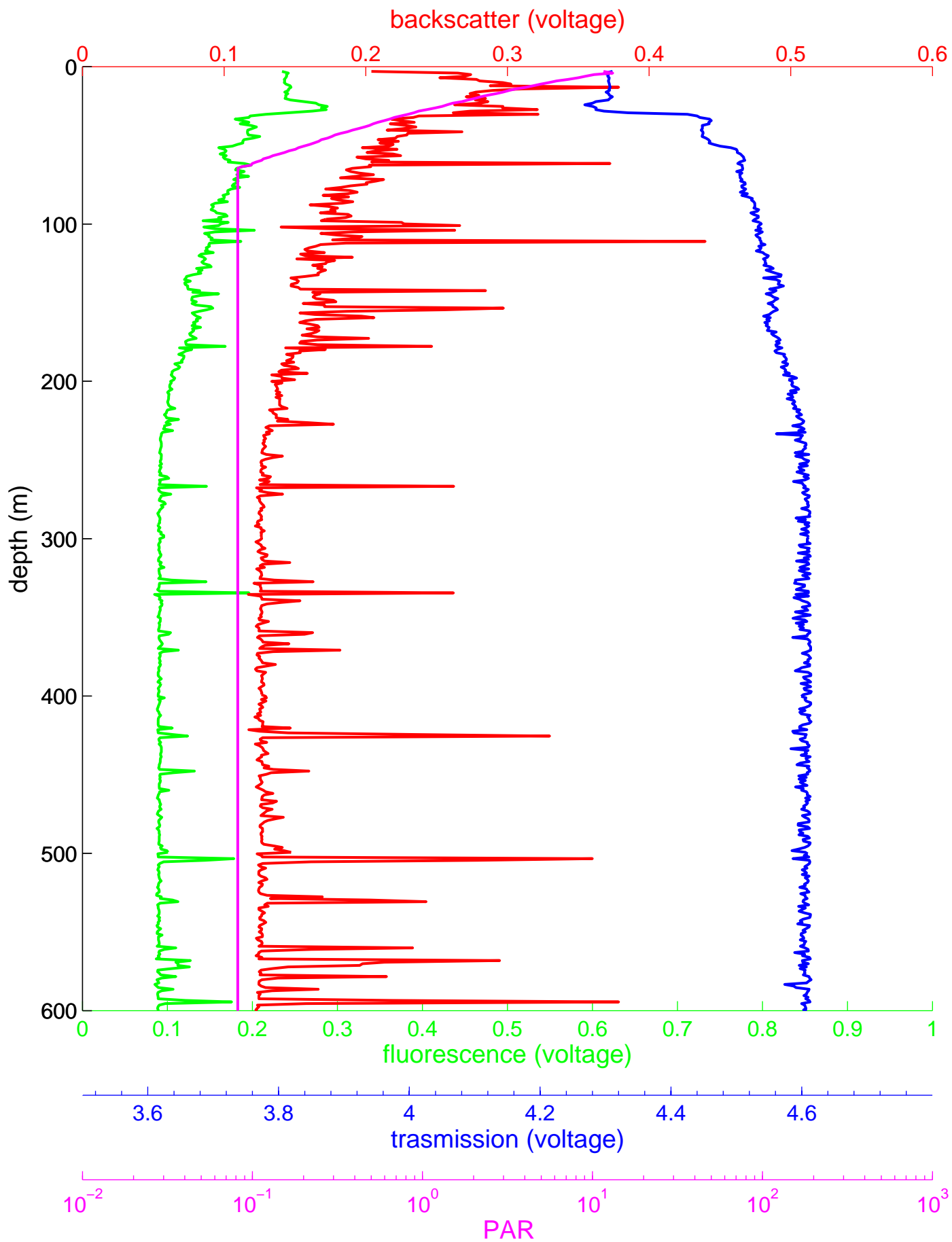


St: 57a Cast: 053 13-May-2008 04:08:10

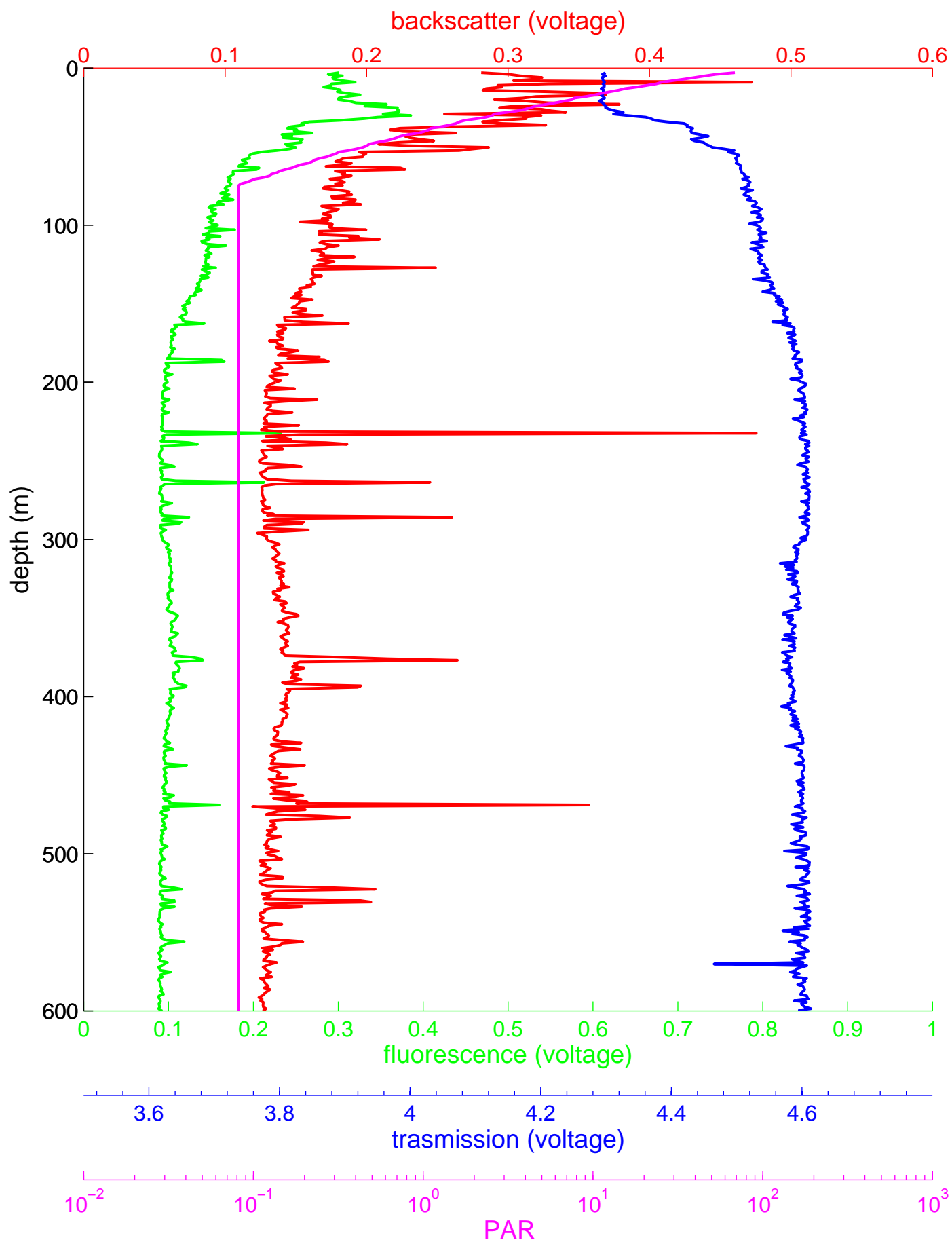




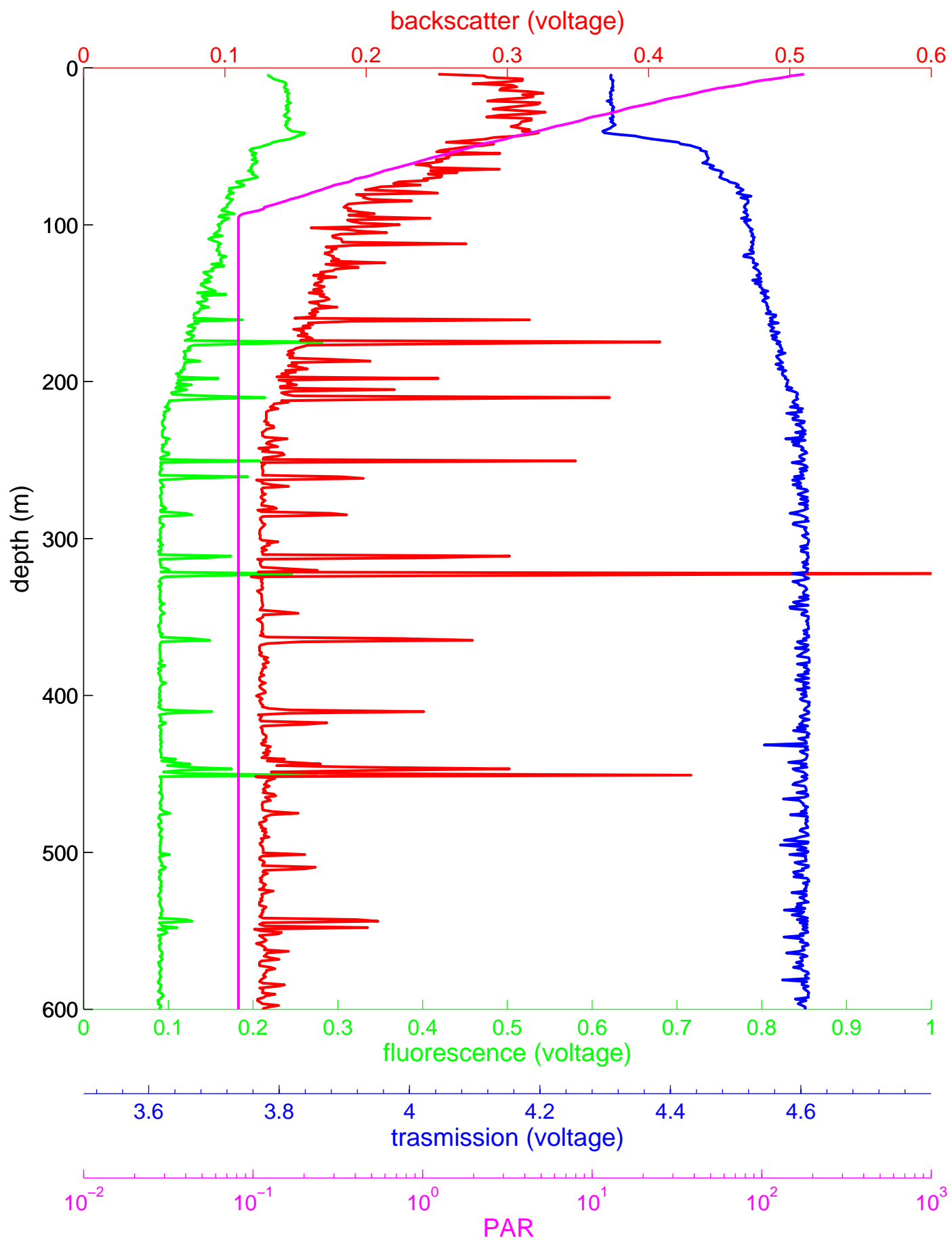
St: 58a Cast: 055 13-May-2008 05:35:33



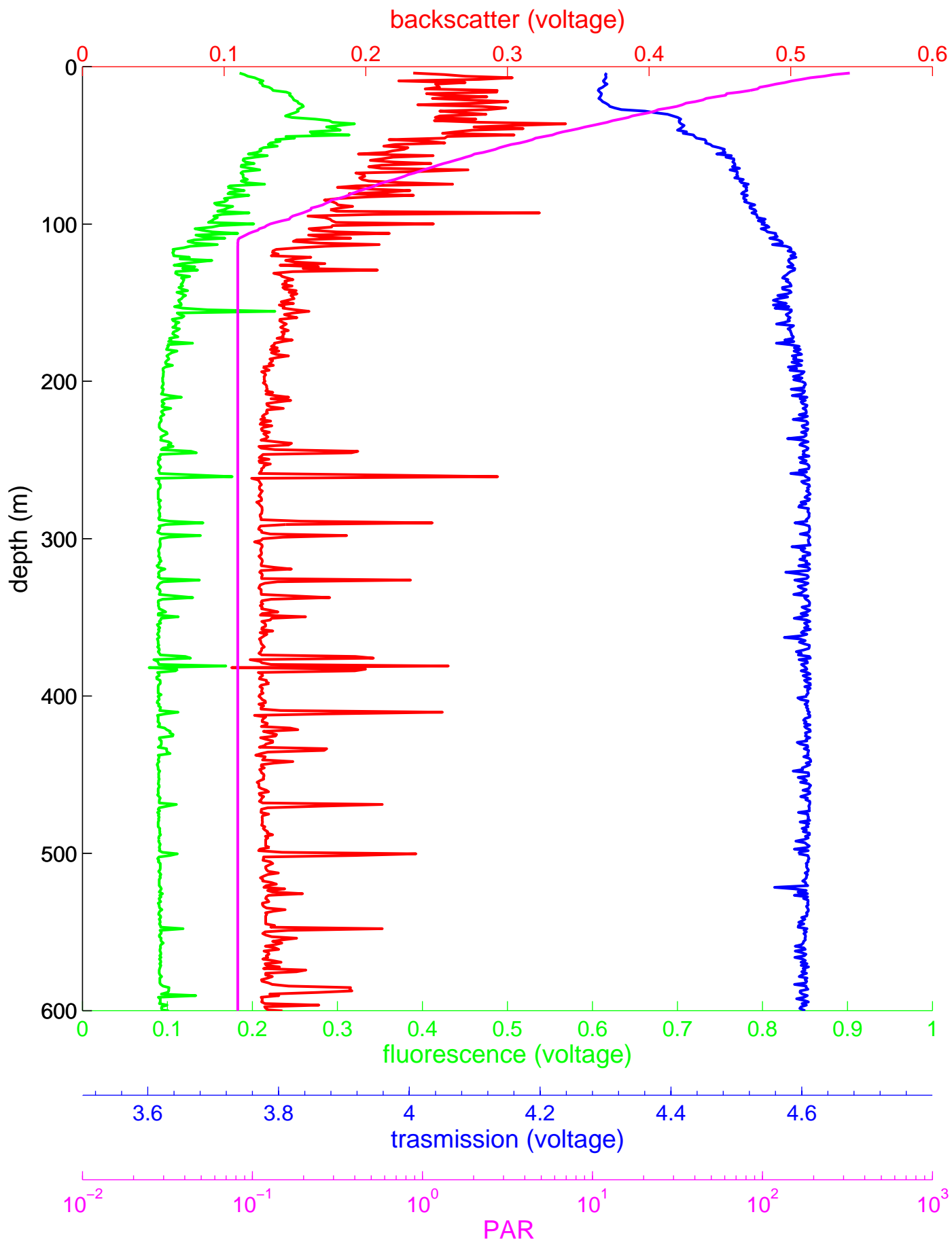
St: 59a Cast: 056 13-May-2008 07:01:07



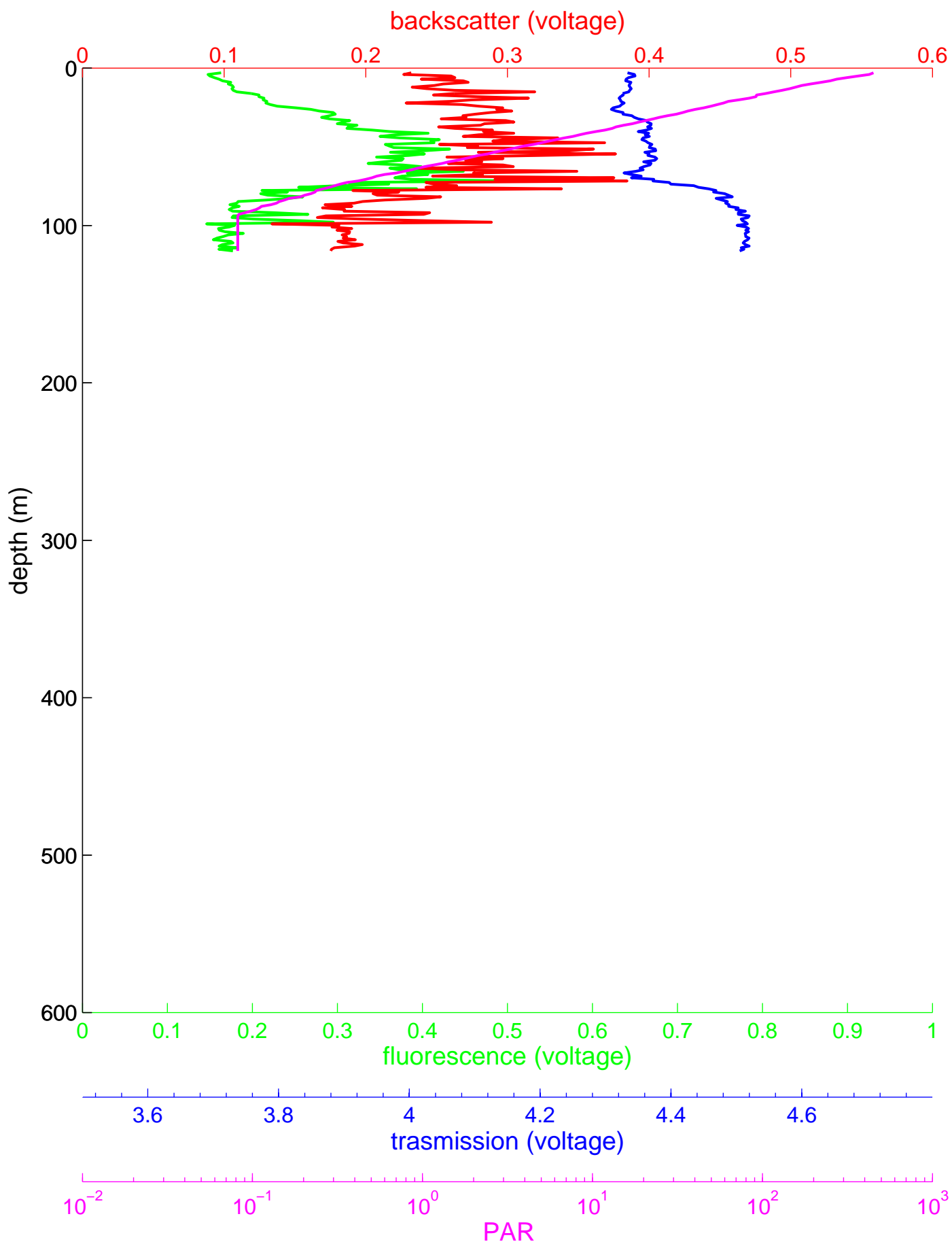
St: 60a Cast: 057 13-May-2008 08:39:57



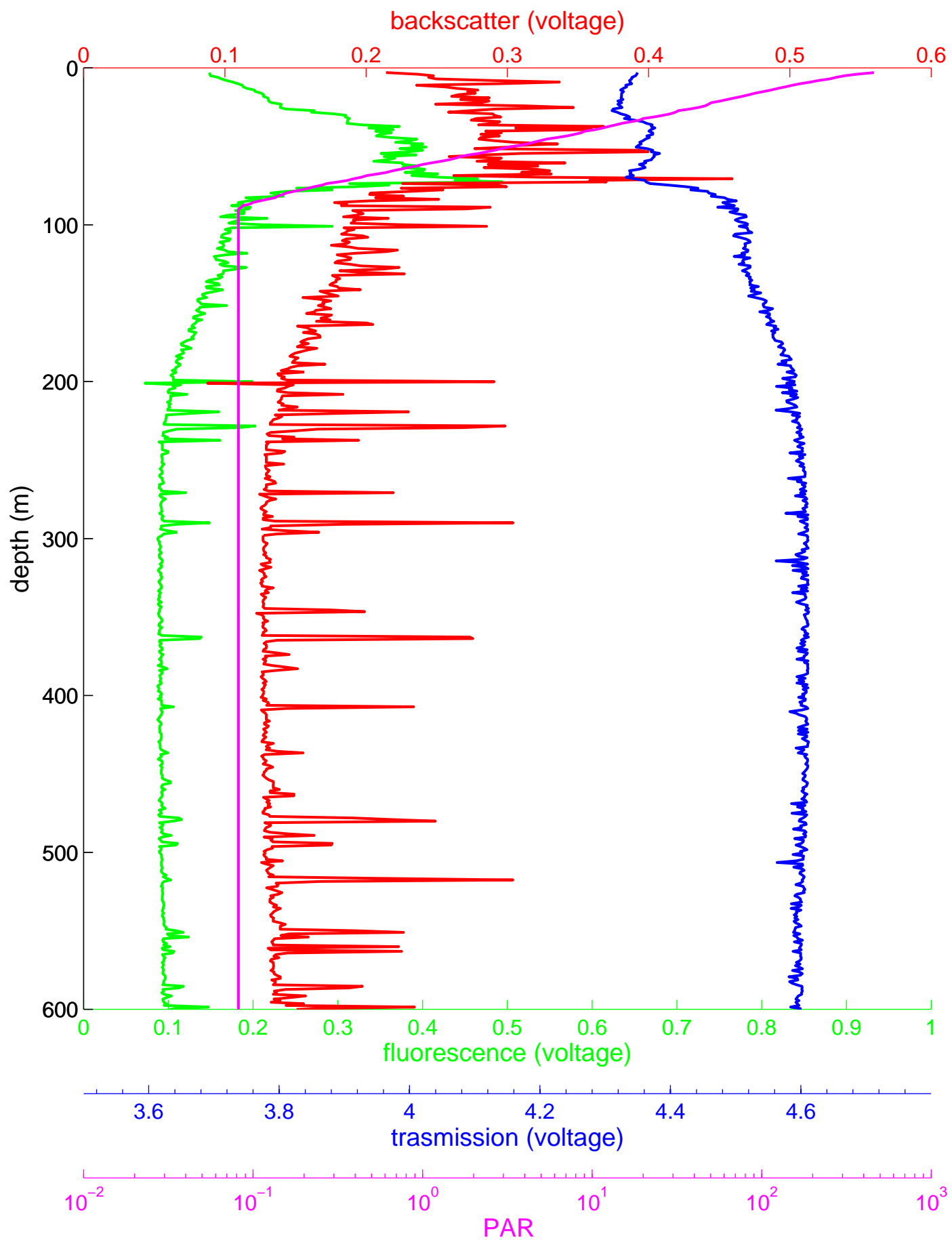
St: 61a Cast: 058 13-May-2008 10:25:53



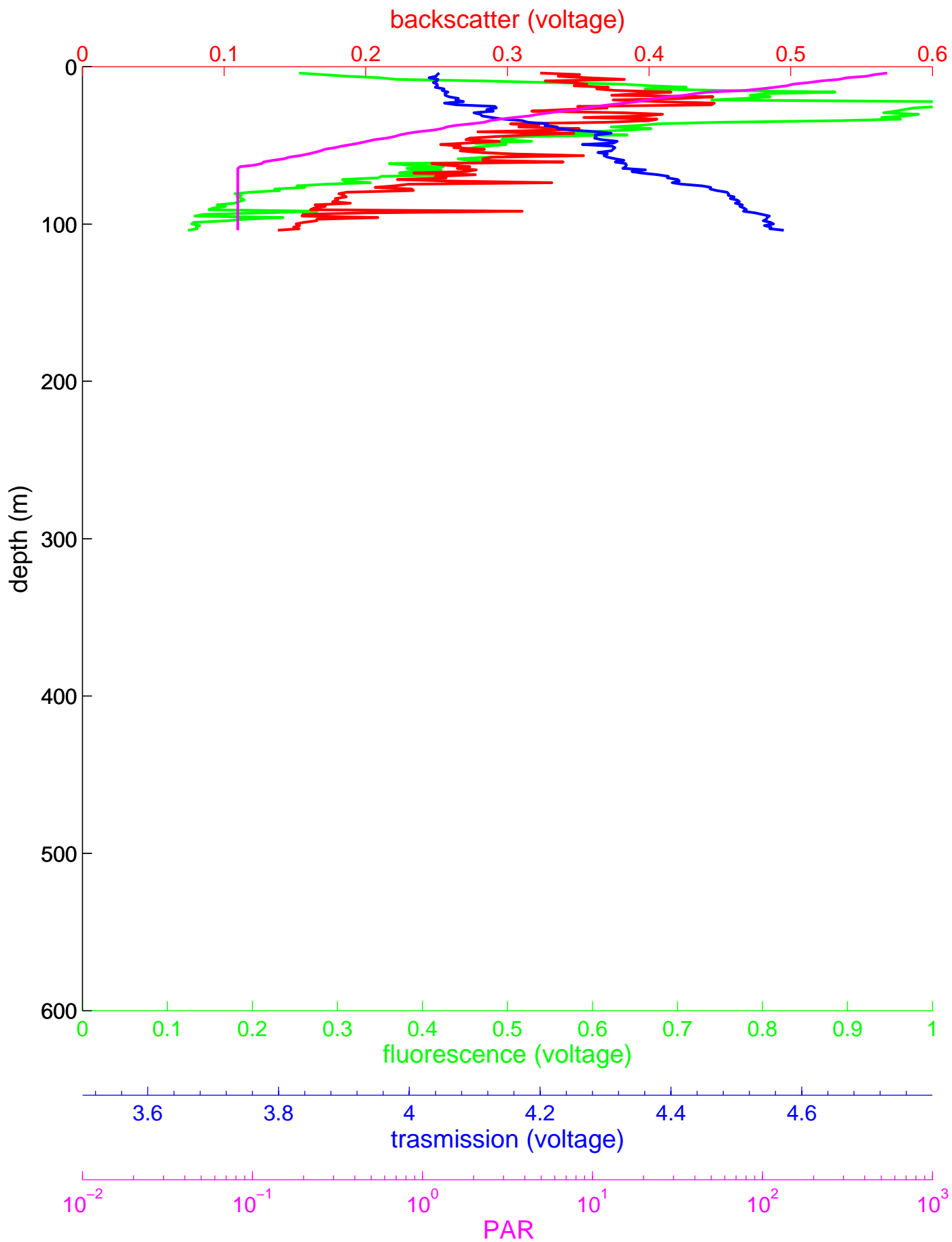
St: 62a Cast: 059 13-May-2008 11:53:33



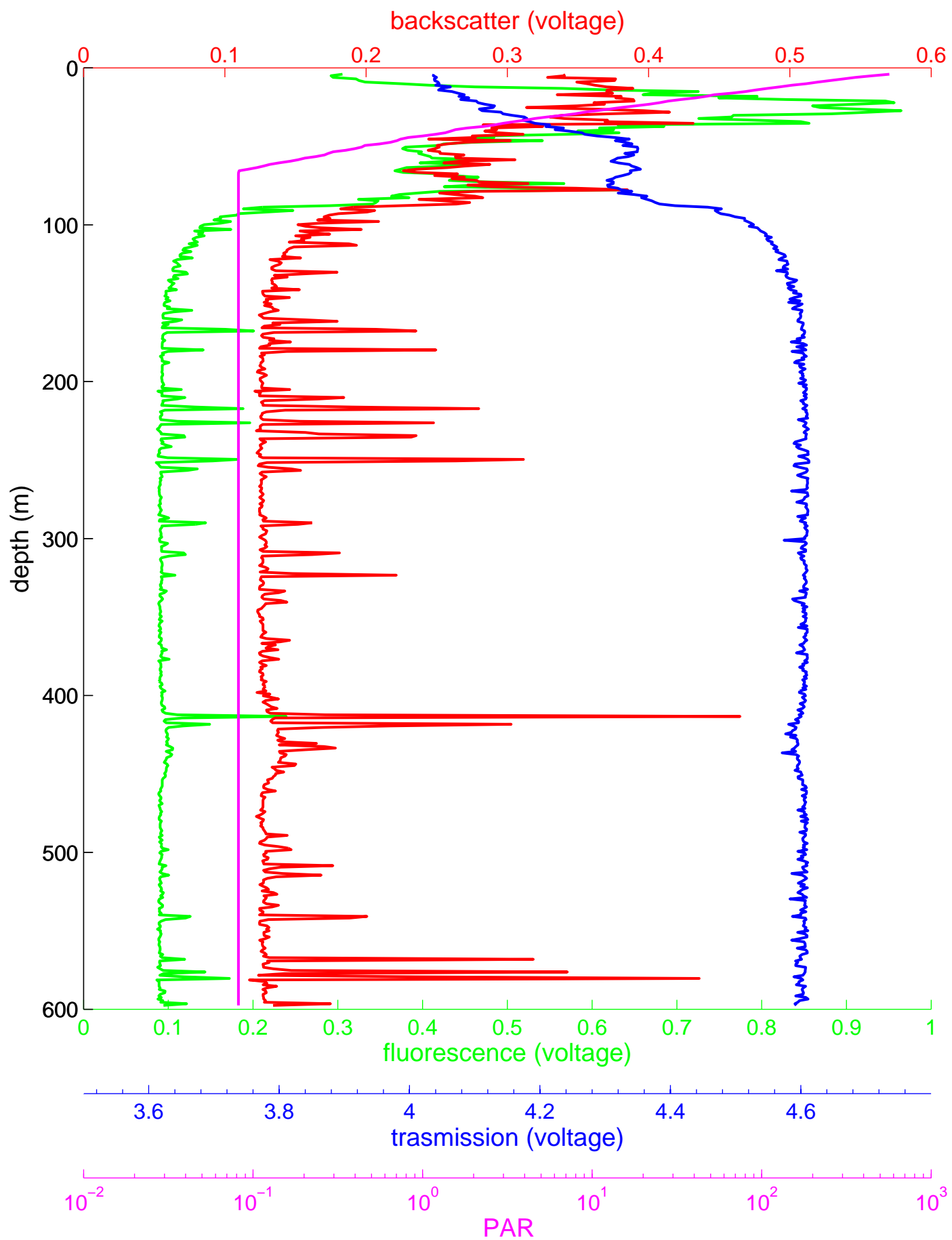
St: 62b Cast: 060 13-May-2008 12:03:38



St: 63a Cast: 061 13-May-2008 13:35:56

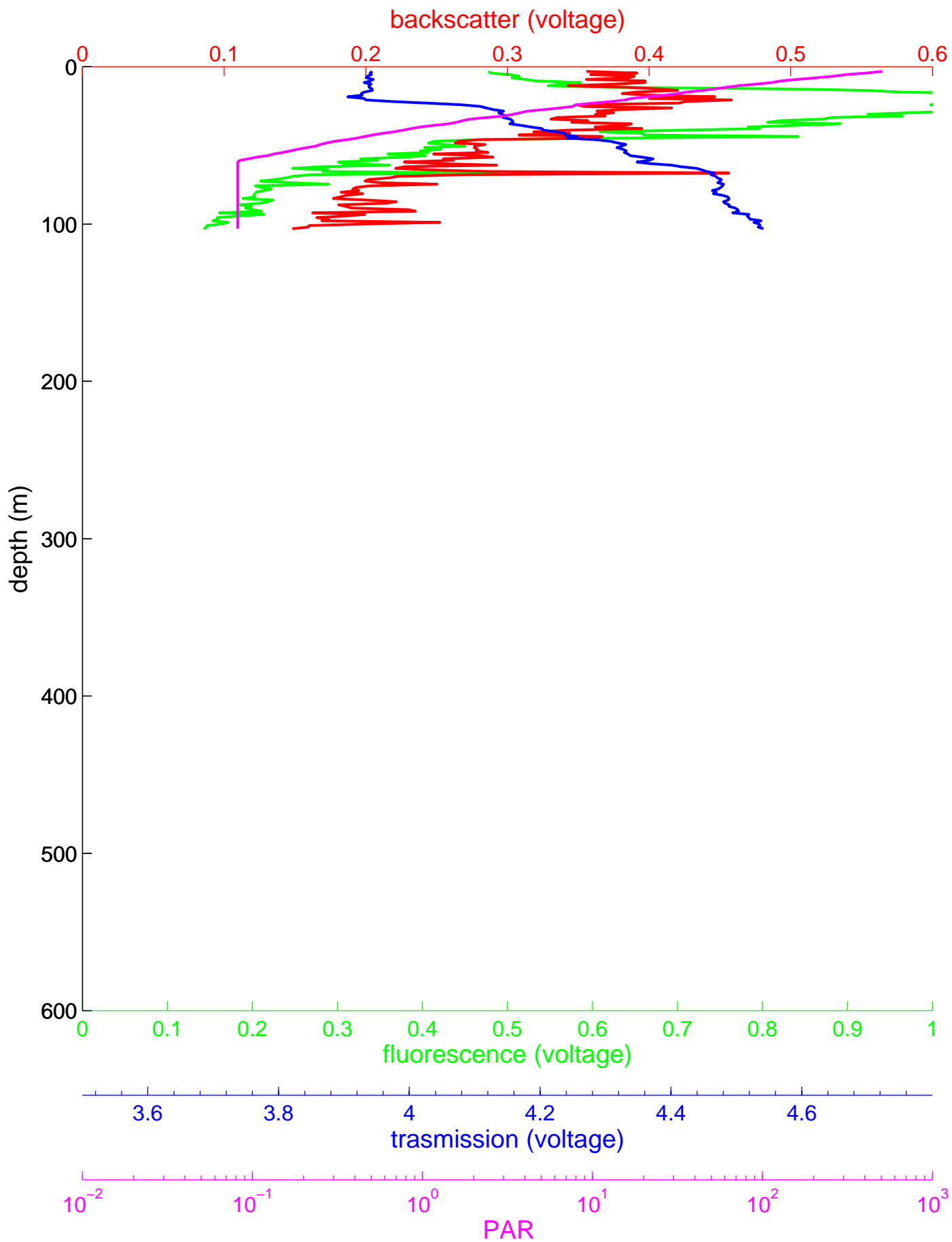


St: 63b Cast: 062 13-May-2008 13:51:51

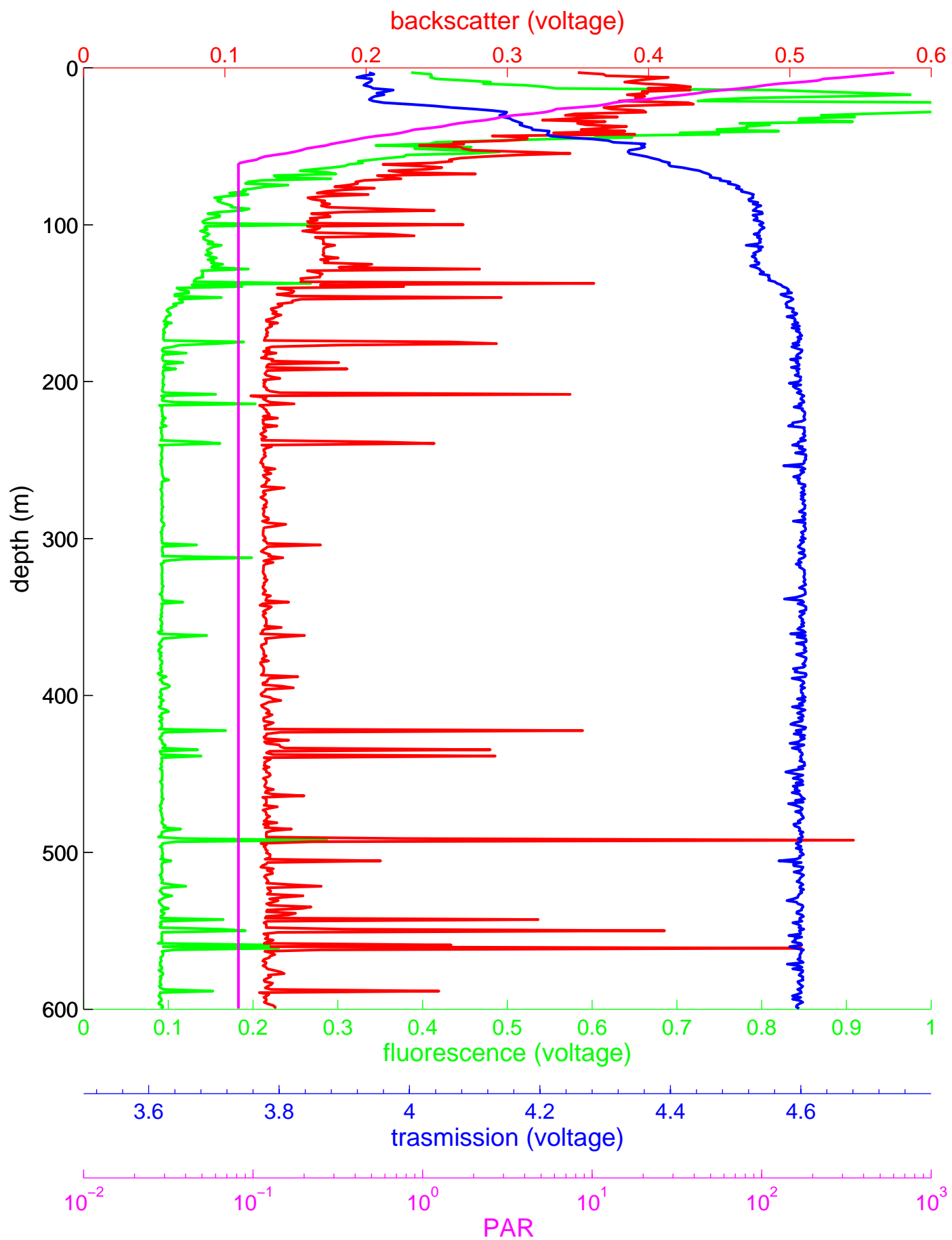




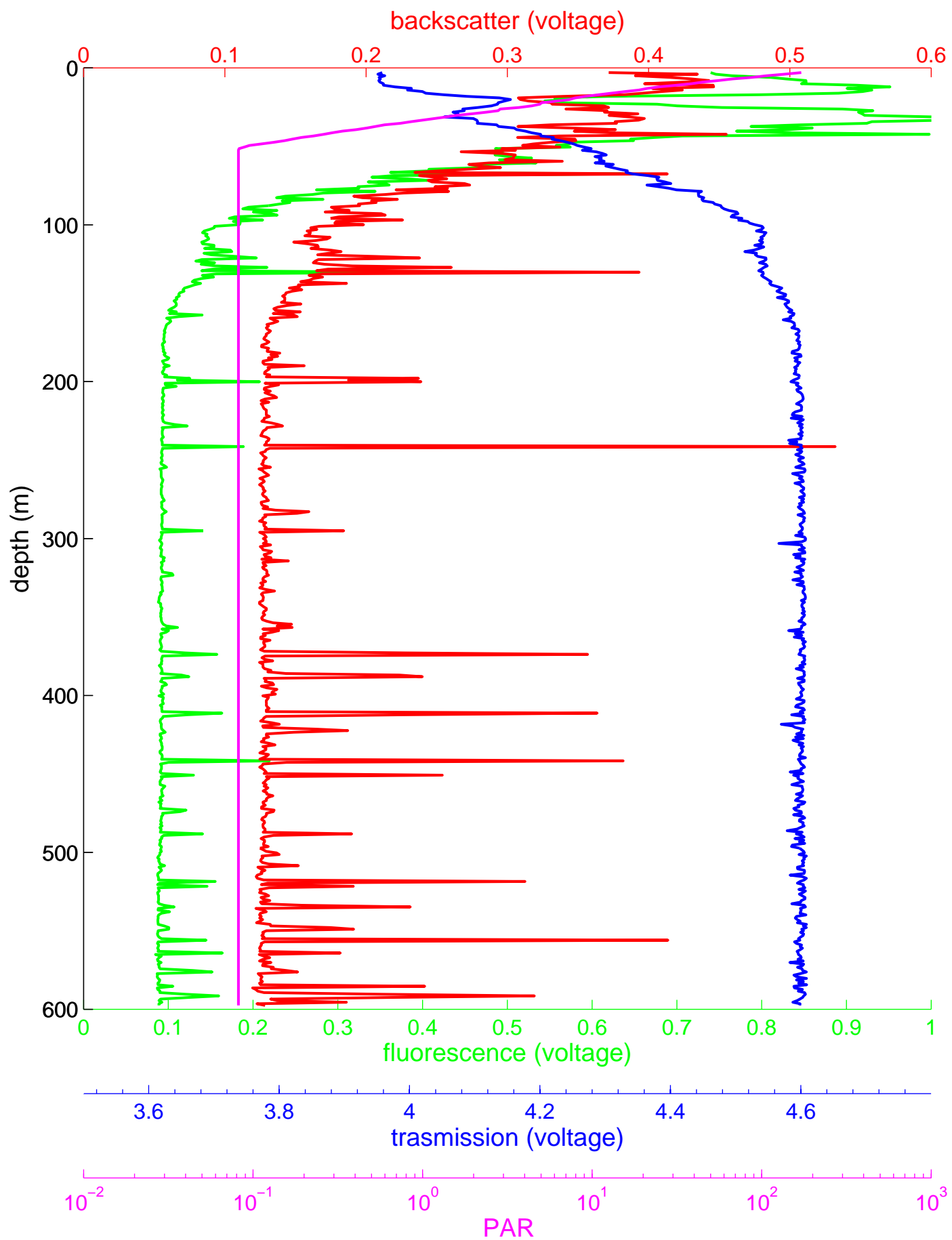
St: 64a Cast: 063 13-May-2008 15:53:16



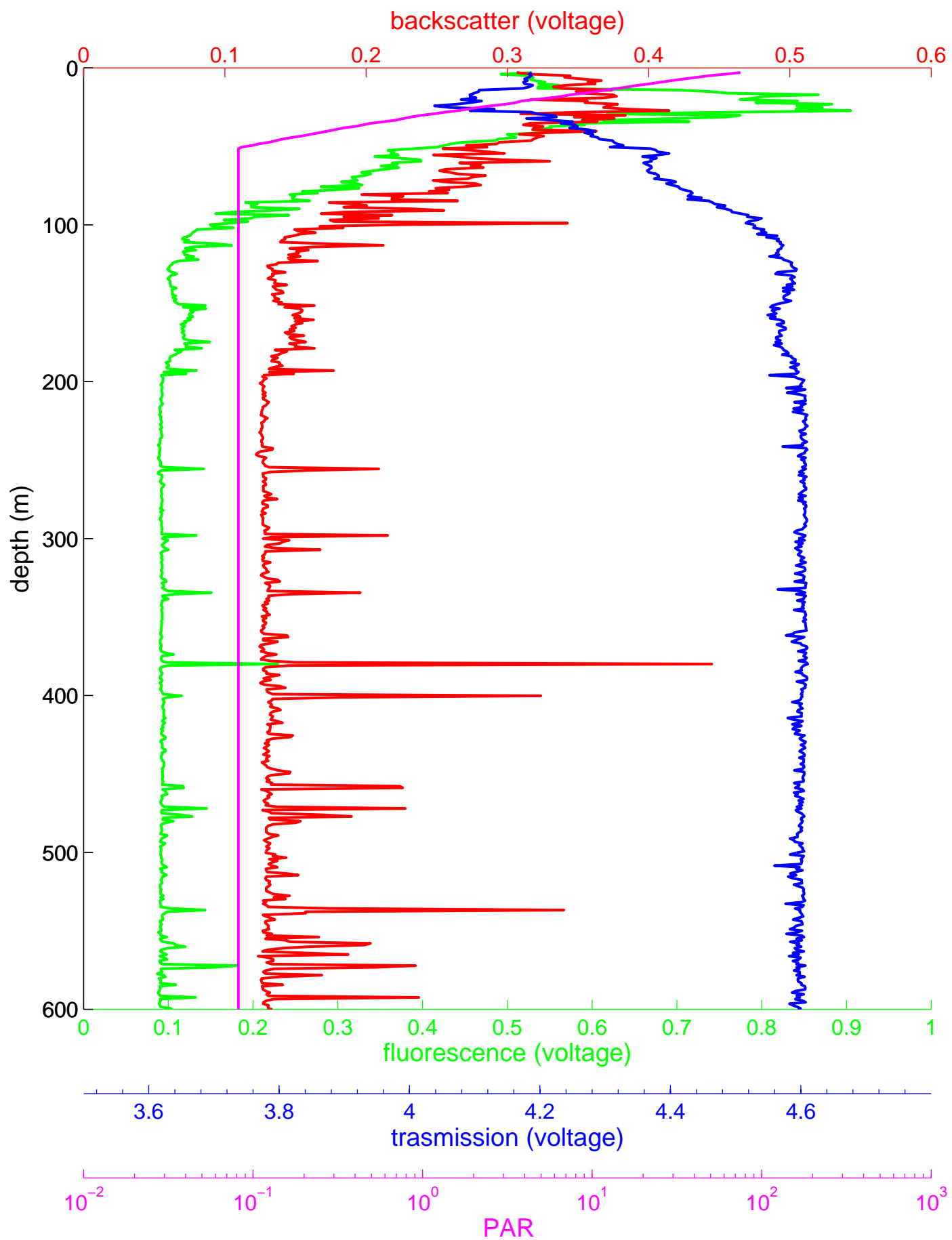
St: 64b Cast: 064 13-May-2008 16:02:07



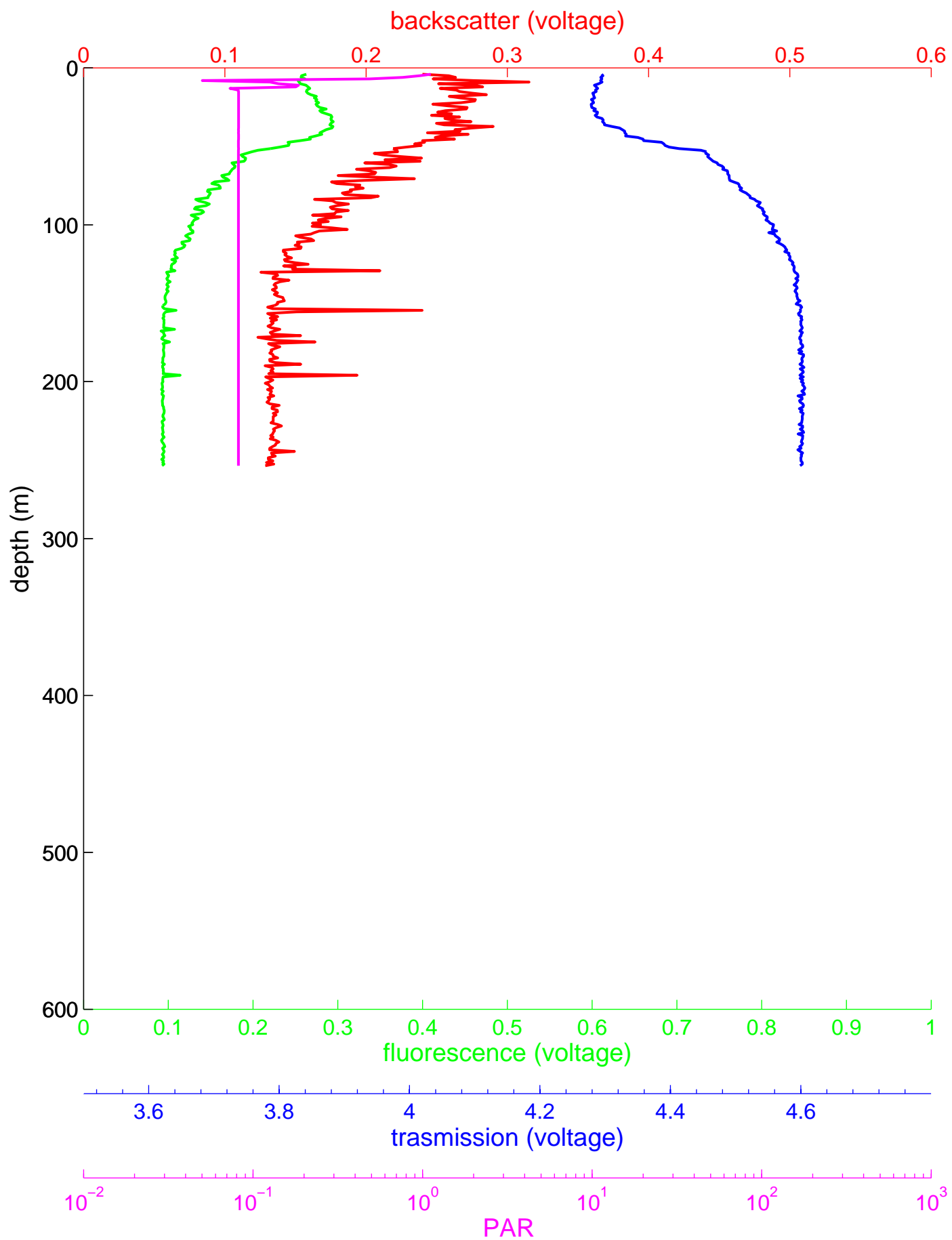
St: 70a Cast: 065 13-May-2008 19:16:23



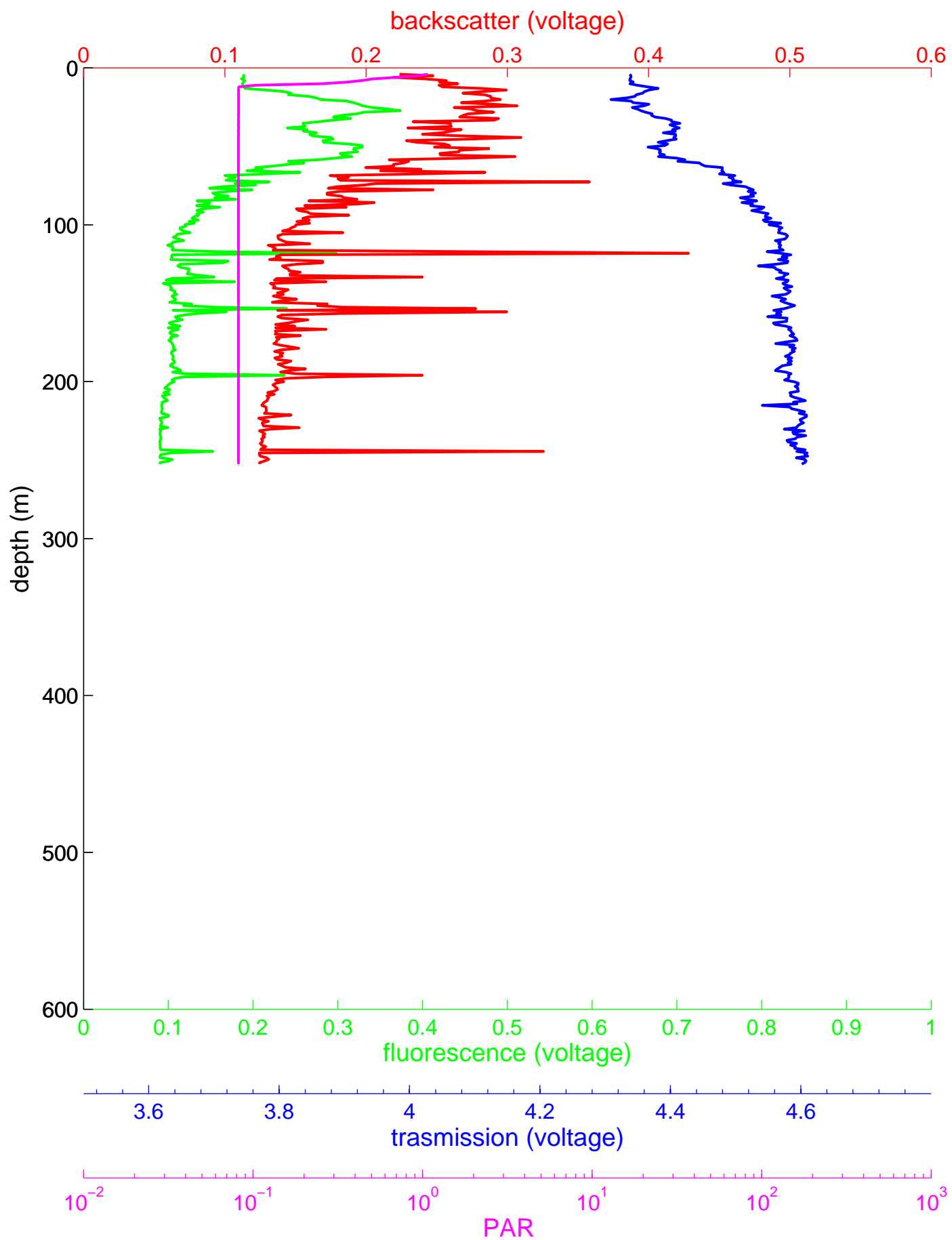
St: 71a Cast: 066 13-May-2008 20:47:38



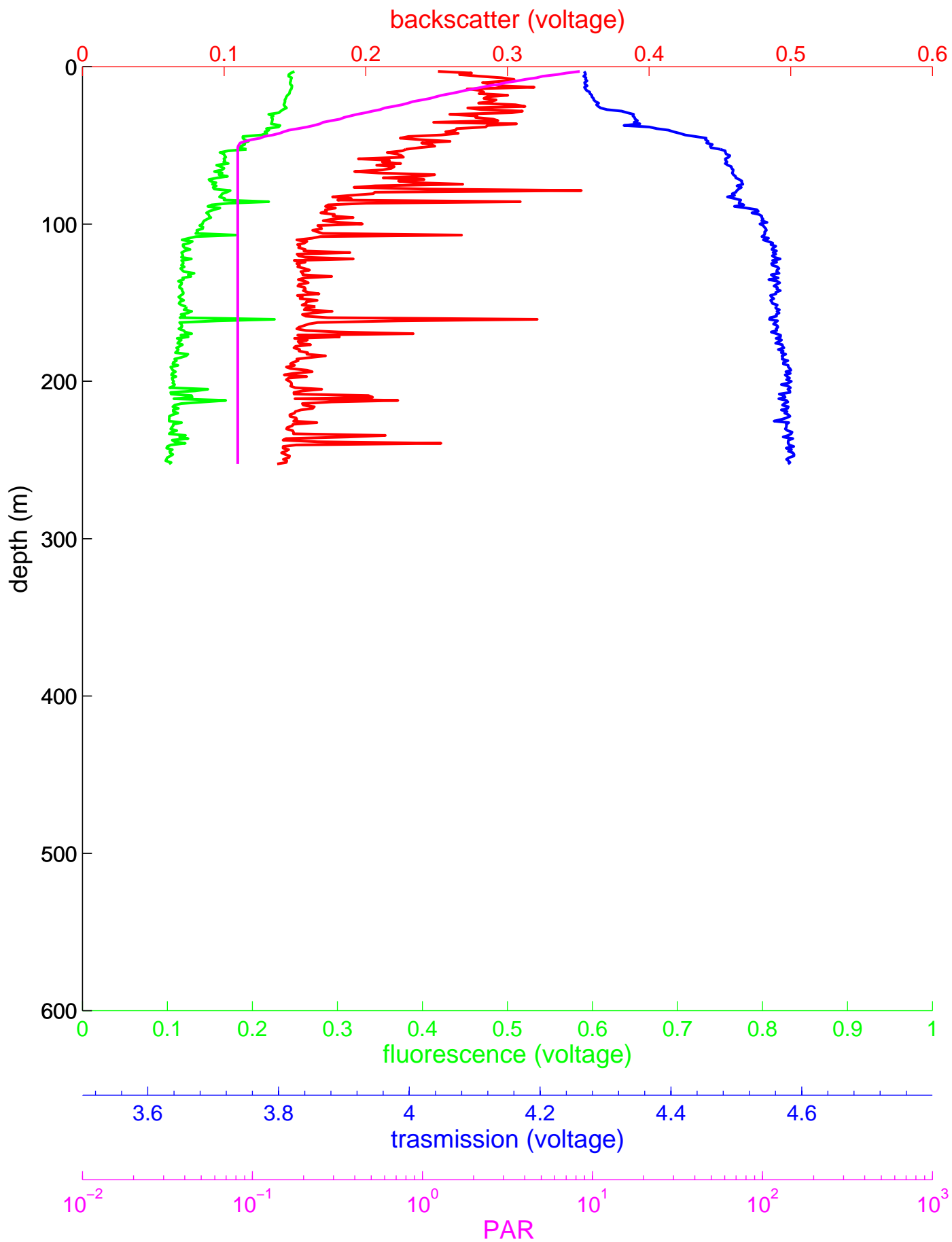
St: 74a Cast: 067 14-May-2008 02:06:53



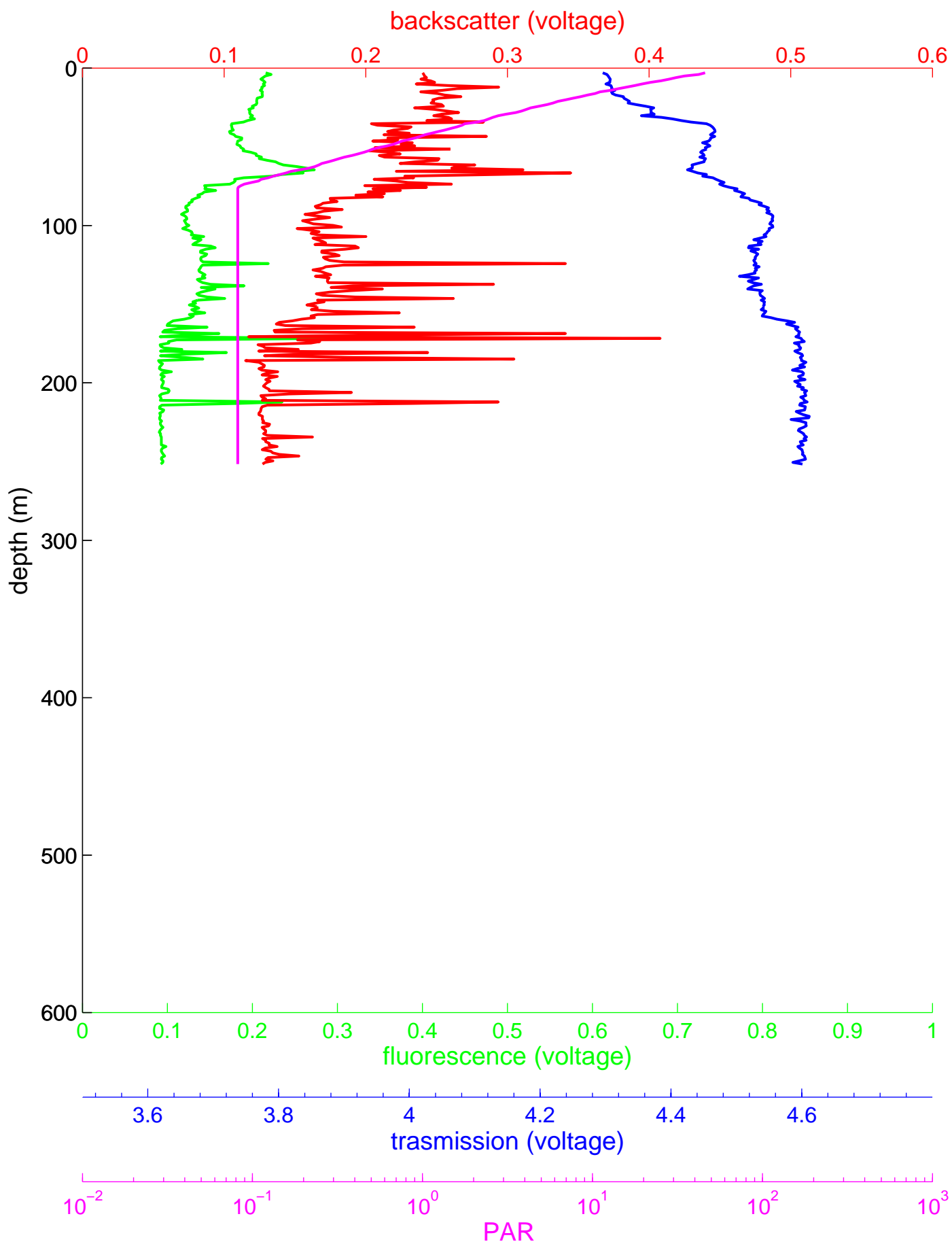
St: 75a Cast: 068 14-May-2008 03:50:13



St: 76a Cast: 069 14-May-2008 05:47:20

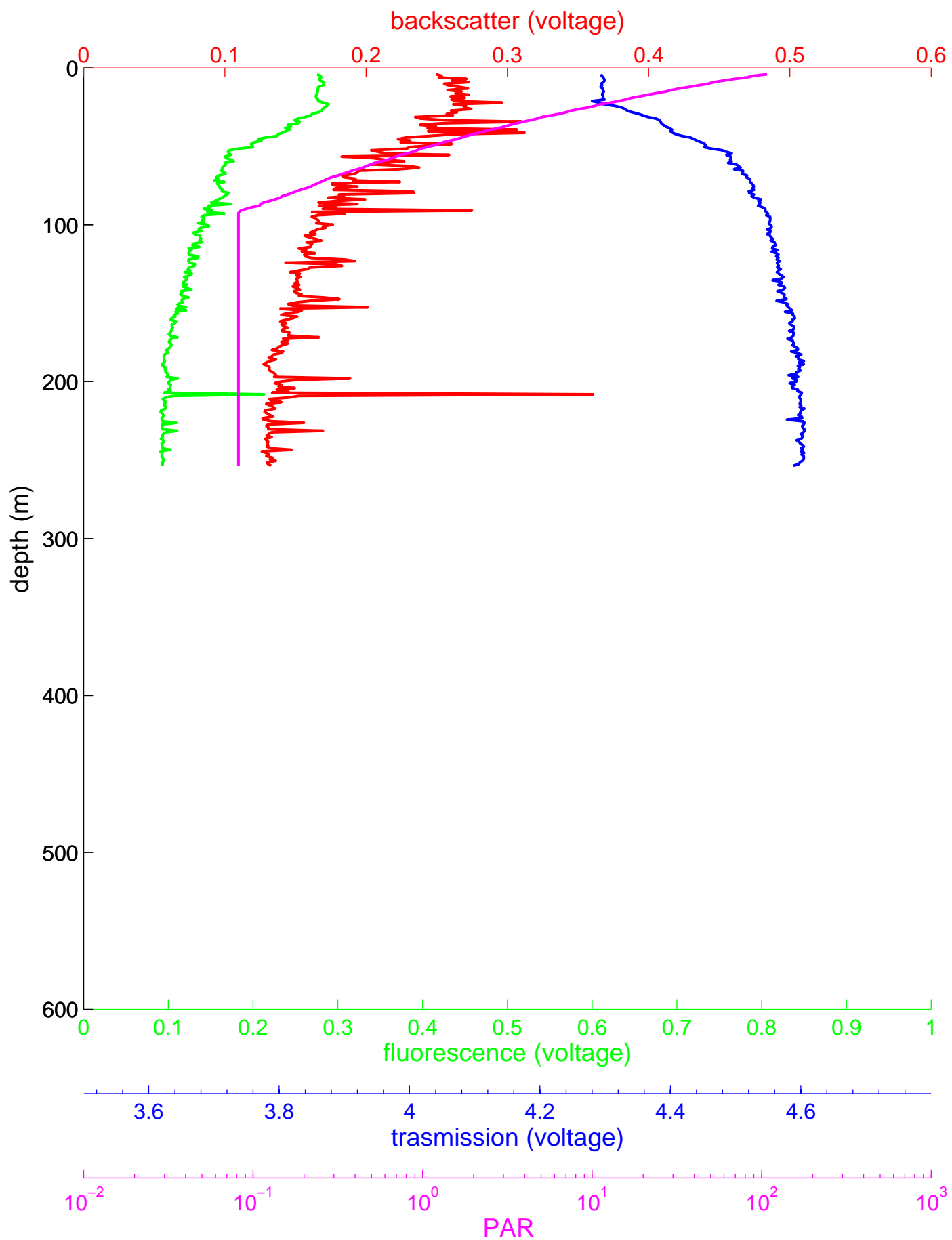


St: 77a Cast: 070 14-May-2008 07:26:50

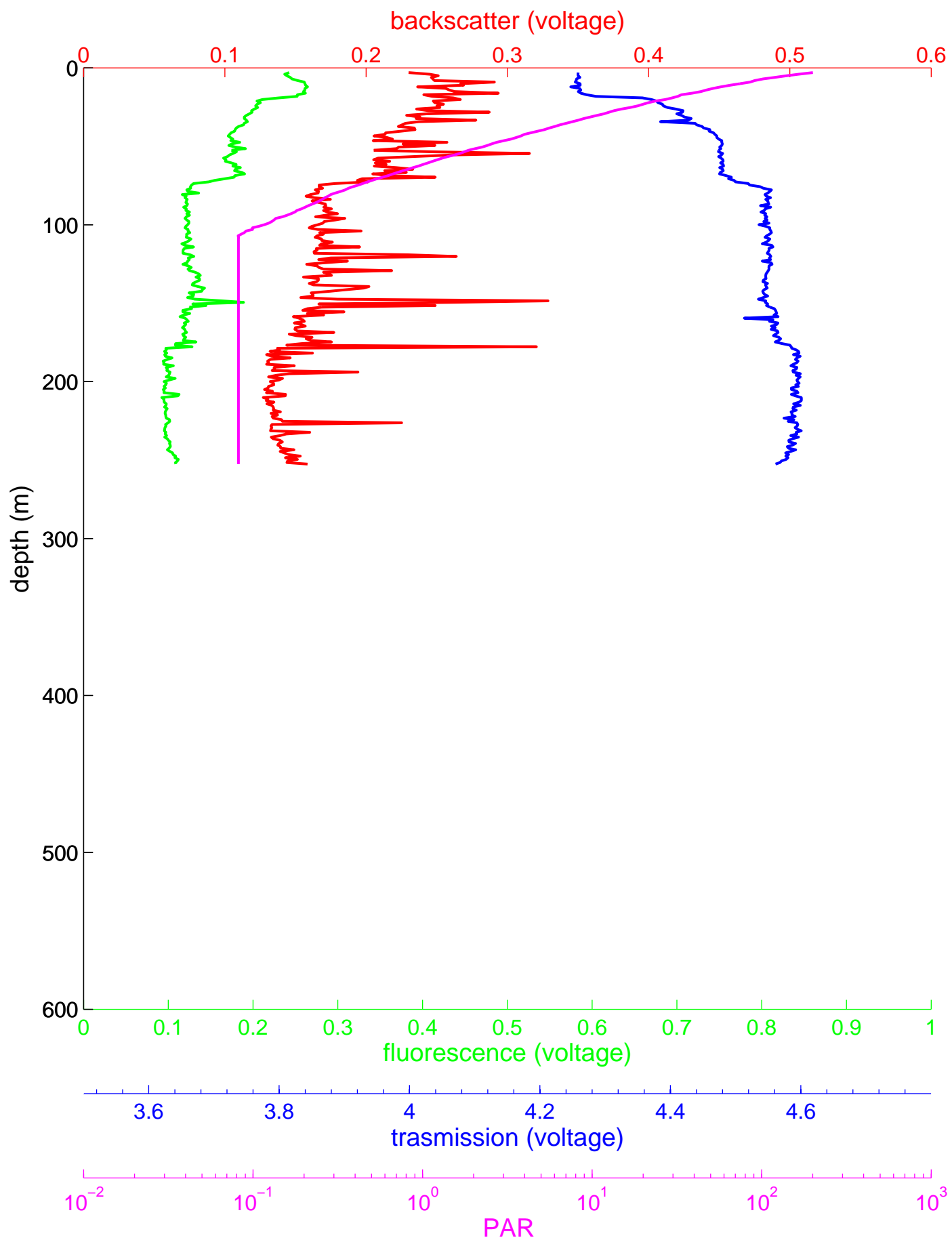




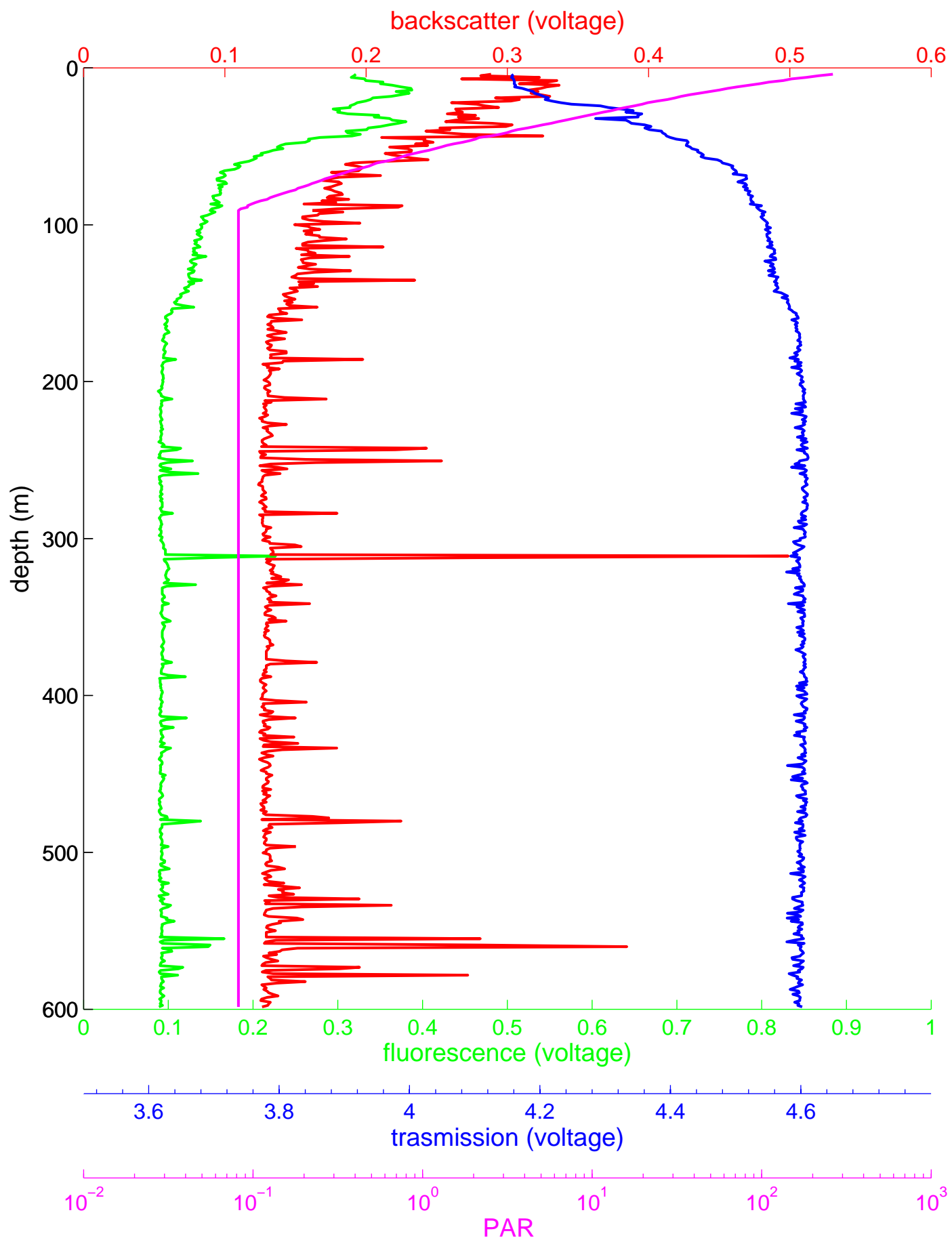
St: 78a Cast: 071 14-May-2008 09:18:45



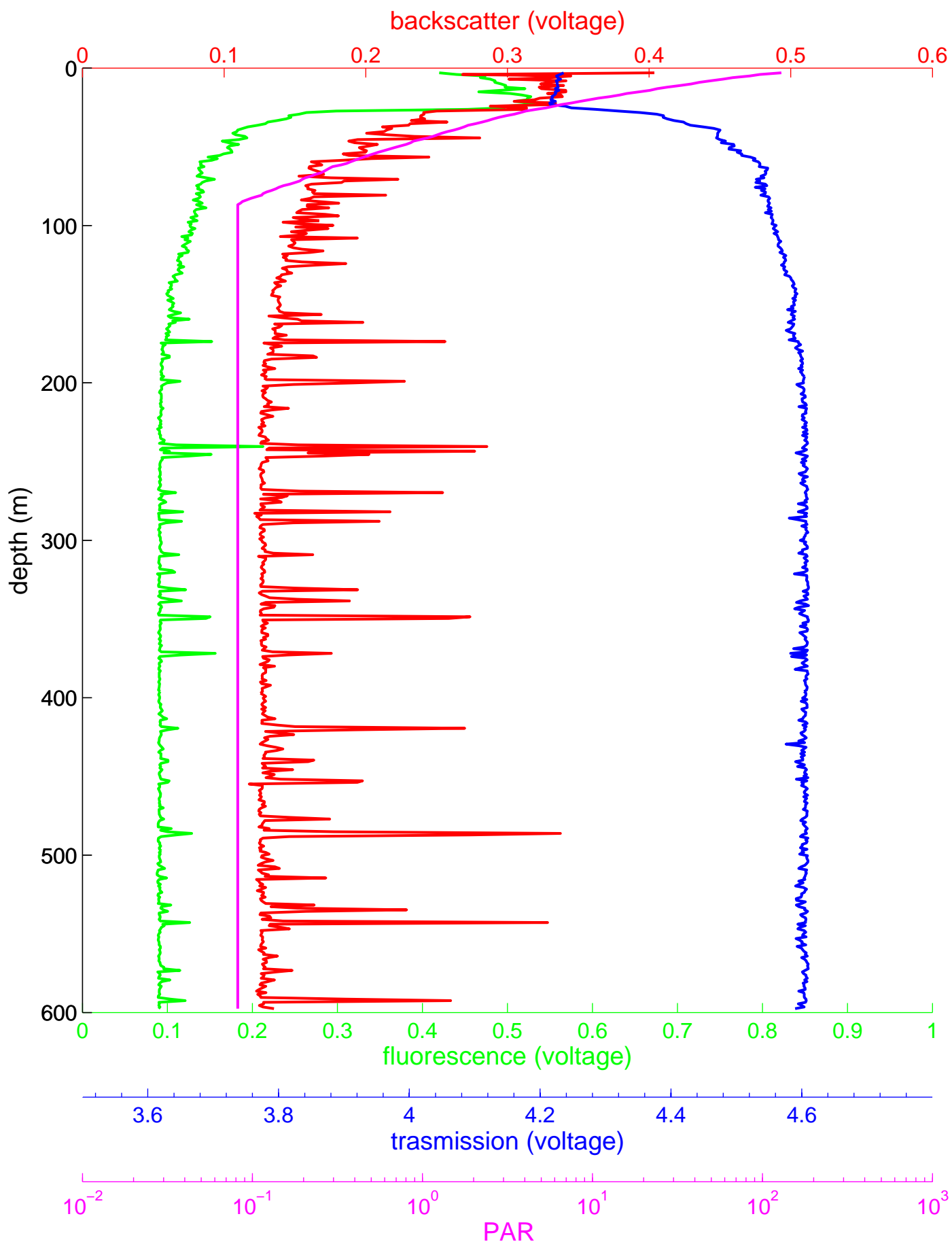
St: 79a Cast: 072 14-May-2008 11:11:14



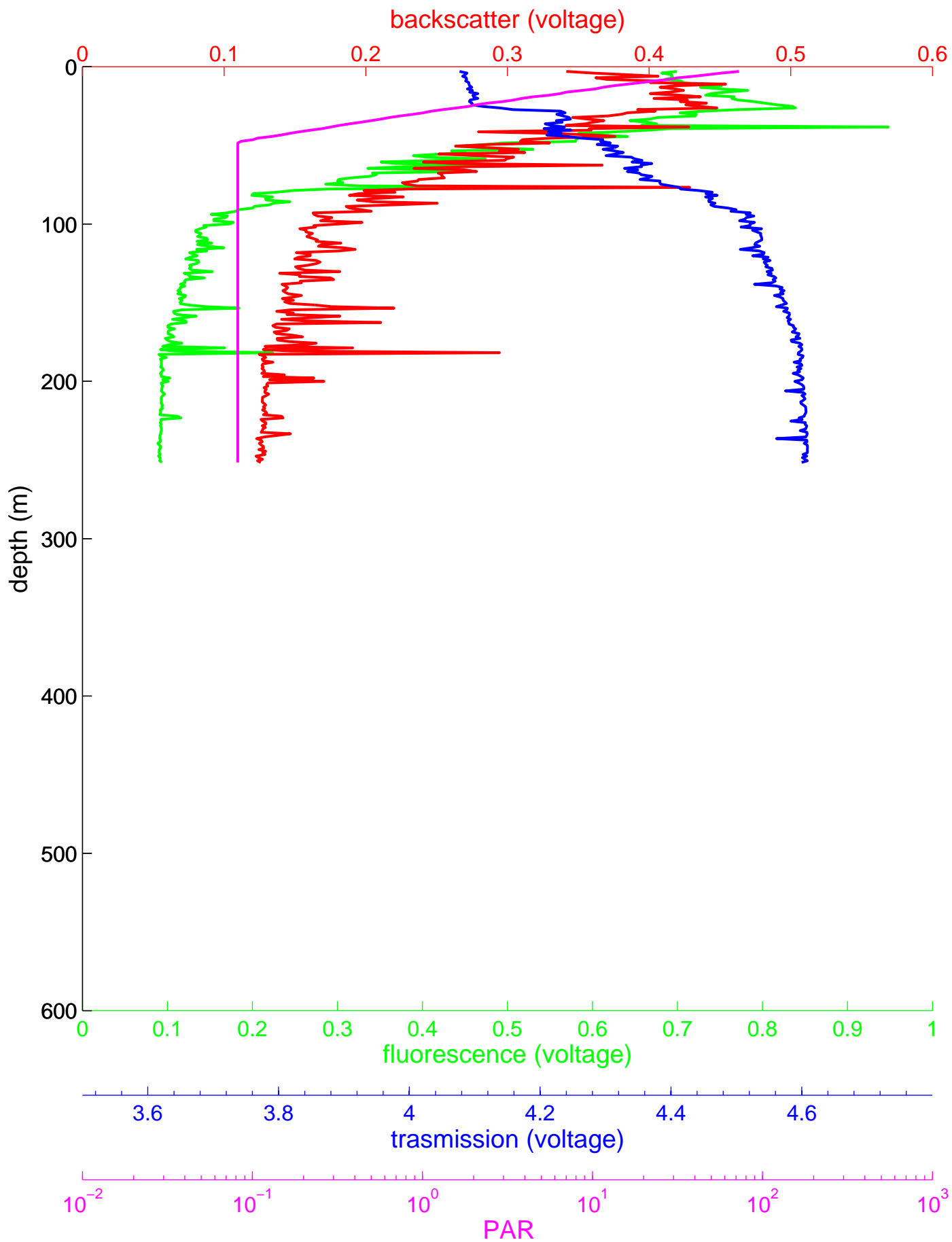
St: 80a Cast: 073 14-May-2008 12:53:16



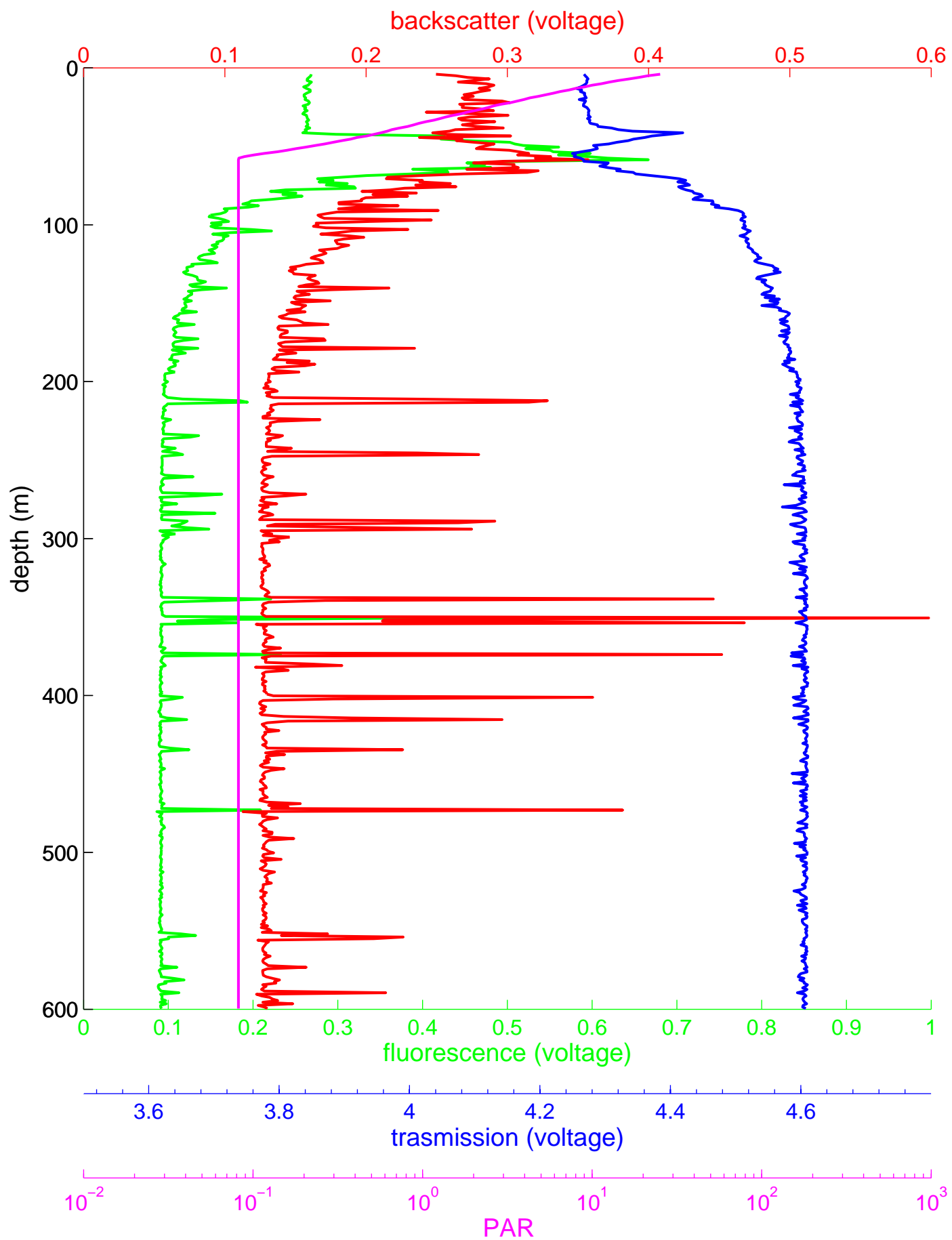
St: 81a Cast: 074 14-May-2008 18:06:47



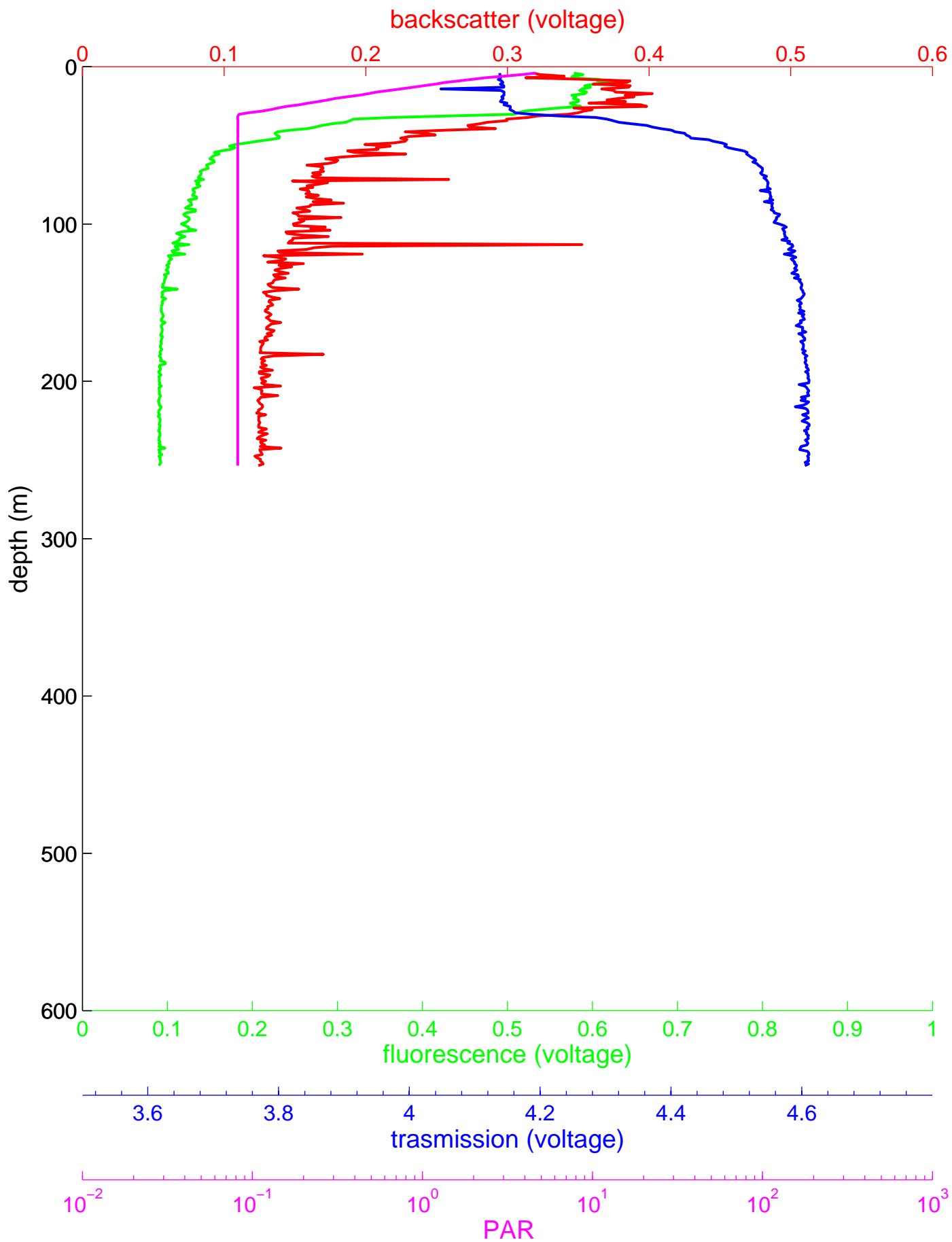
St: 82a Cast: 075 14-May-2008 19:17:08



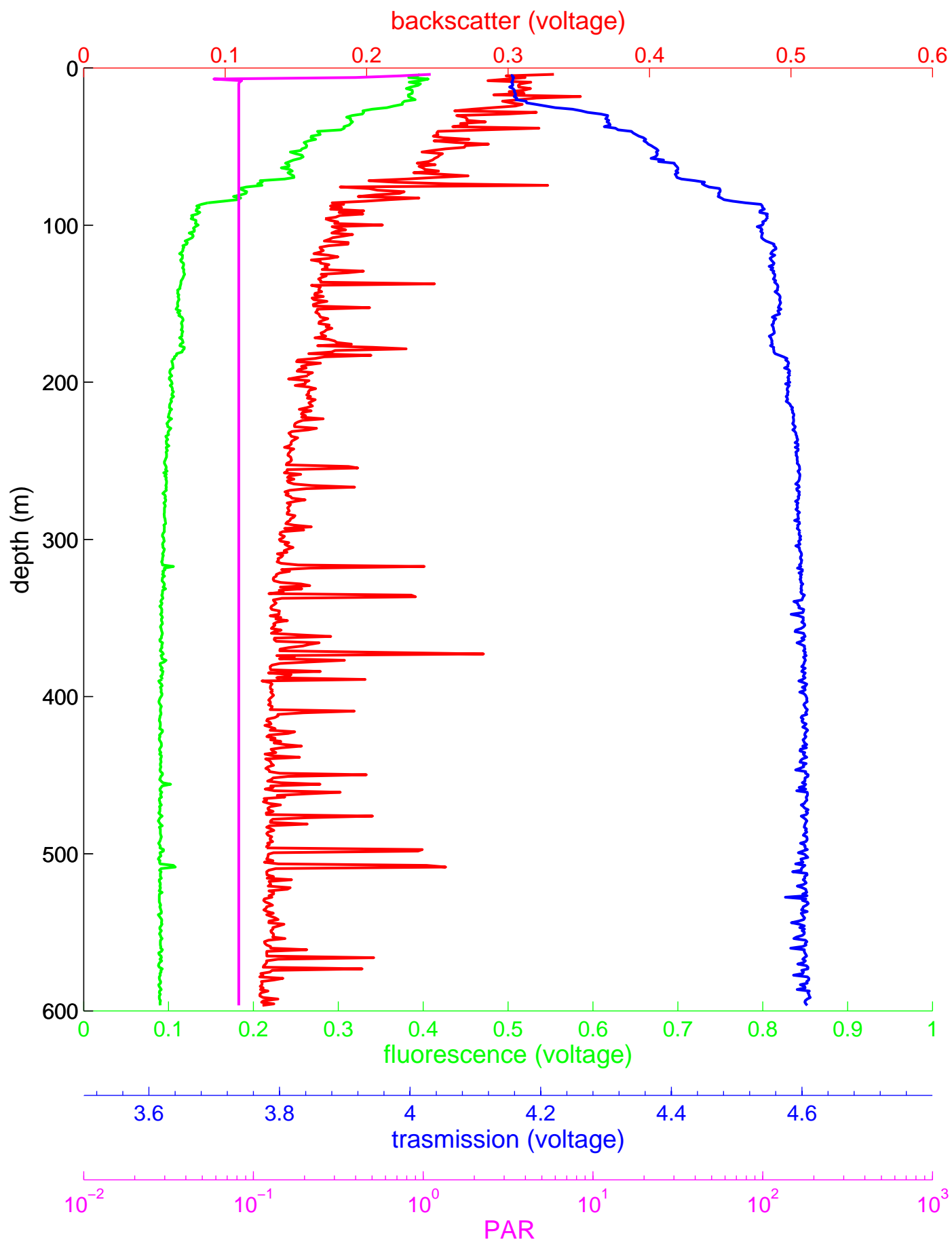
St: 83a Cast: 076 14-May-2008 20:29:22



St: 84a Cast: 077 14-May-2008 22:04:42

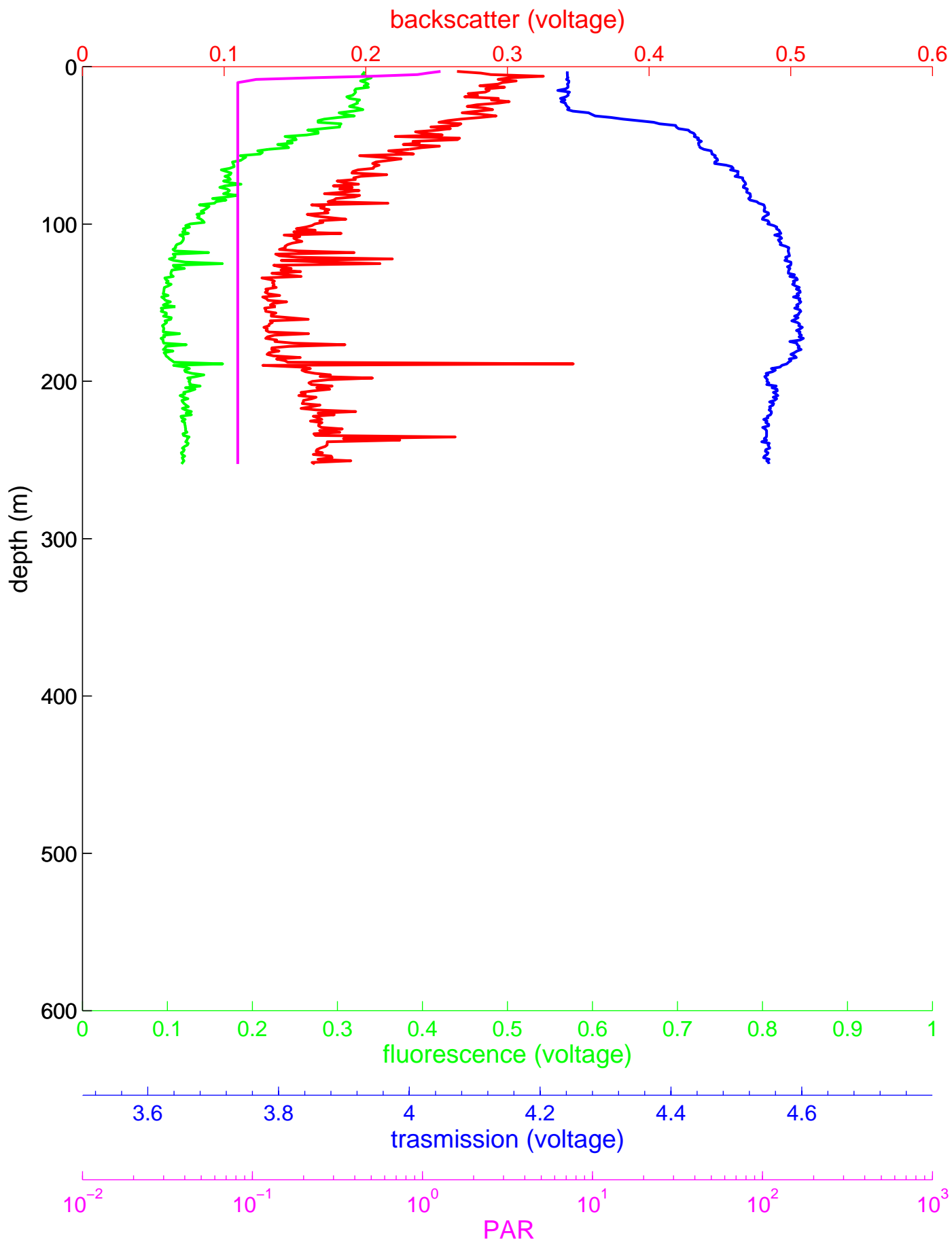


St: 85a Cast: 078 14-May-2008 23:24:16

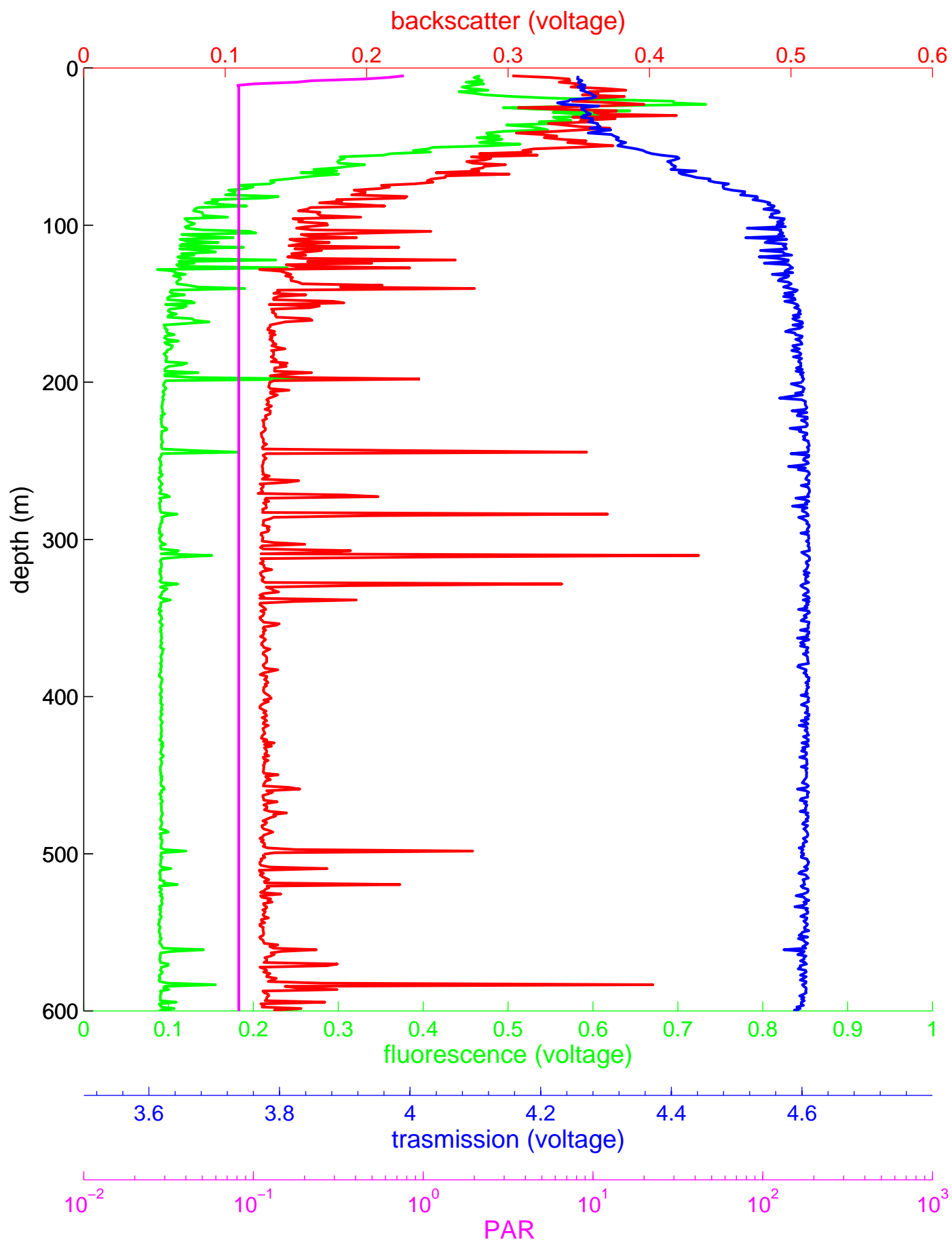




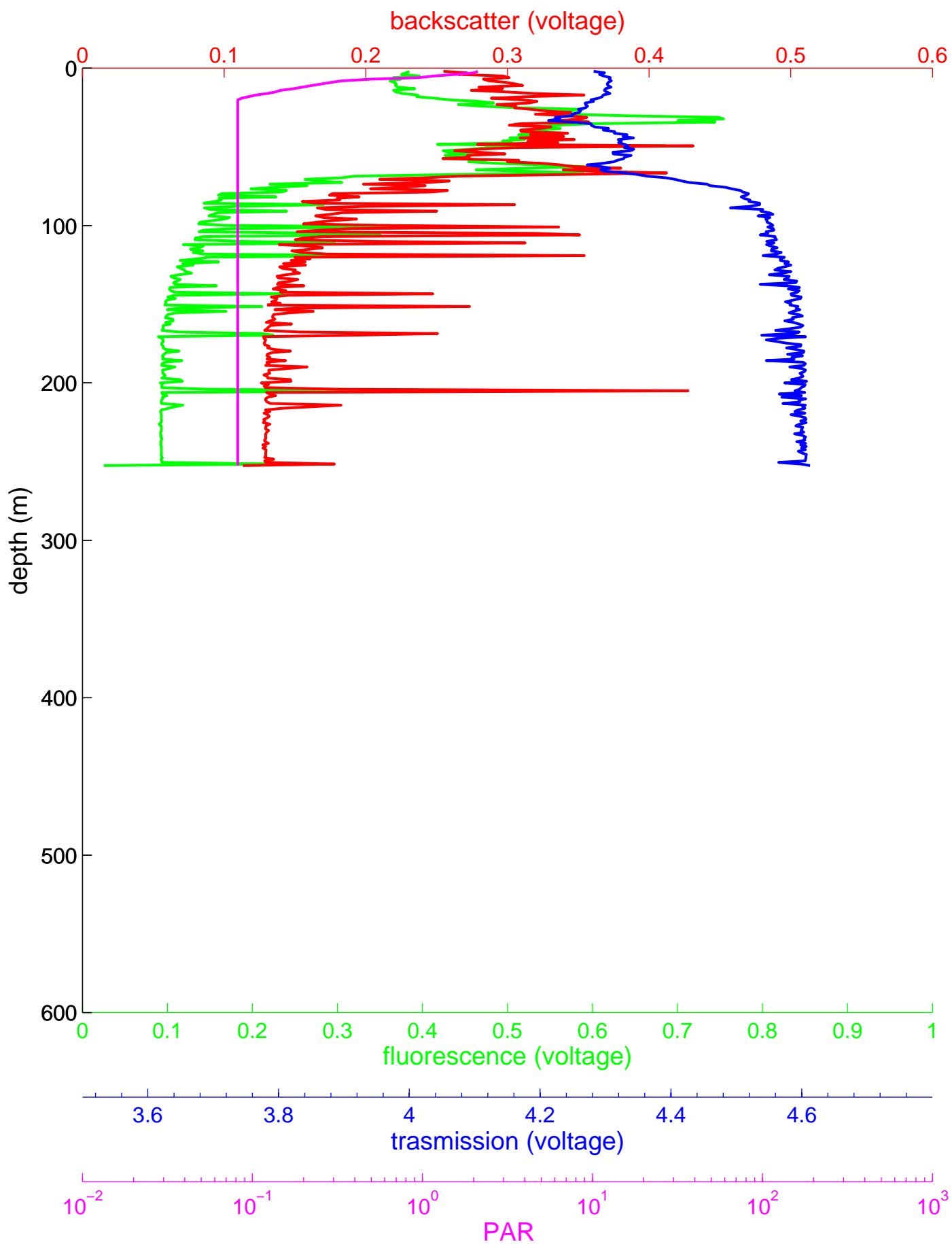
St: 86a Cast: 079 15-May-2008 02:10:05



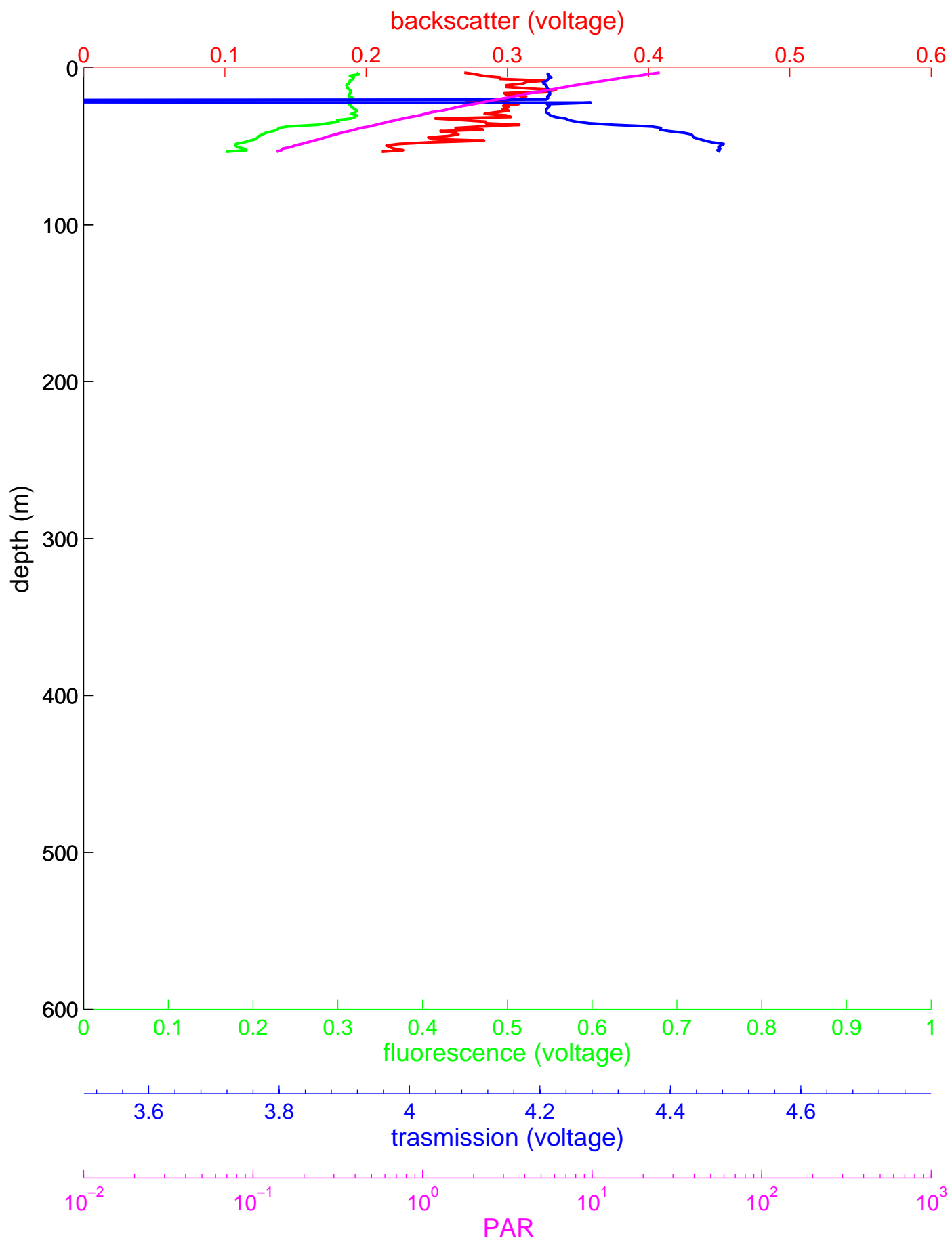
St: 87a Cast: 080 15-May-2008 03:09:27



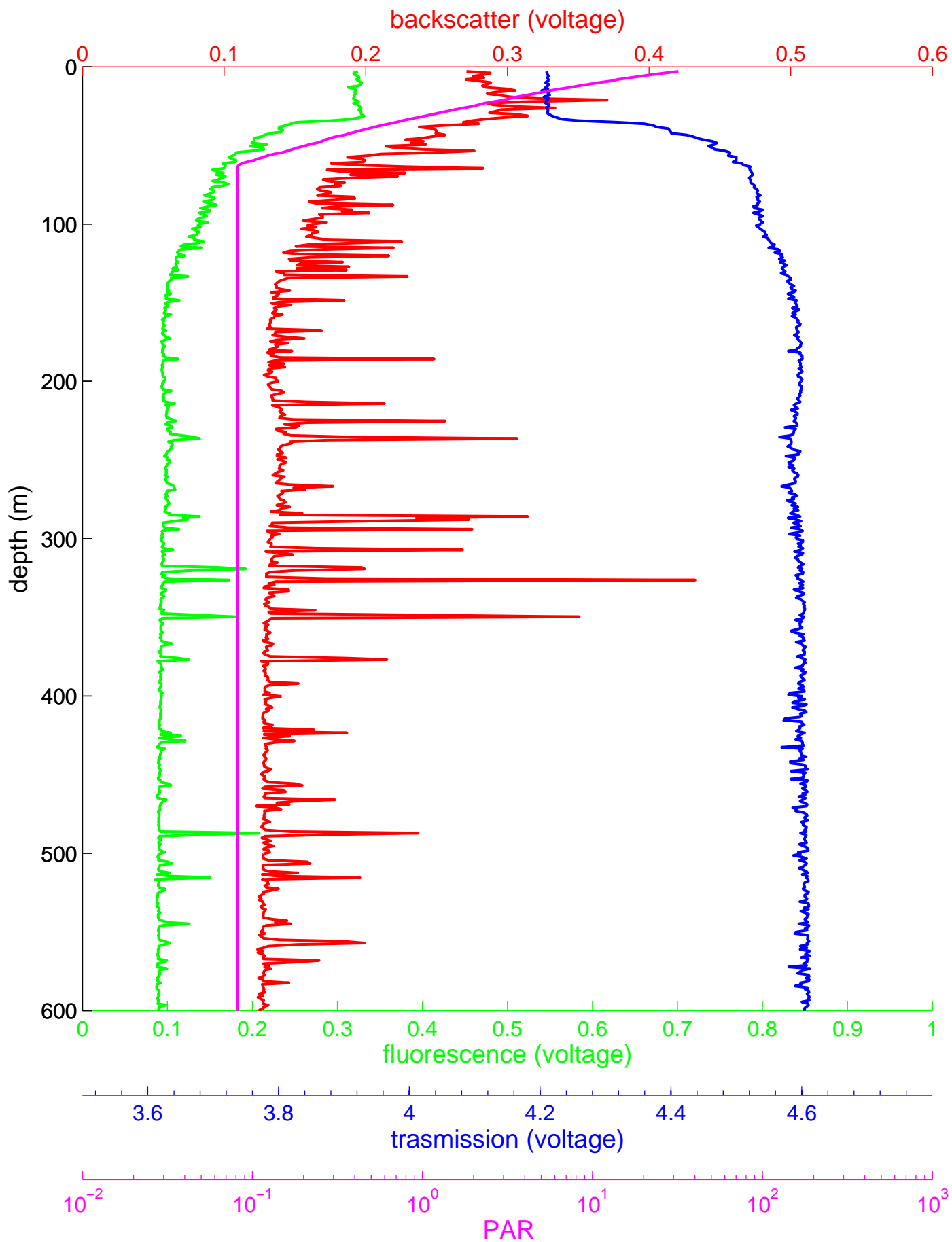
St: 88a Cast: 081 15-May-2008 04:34:37



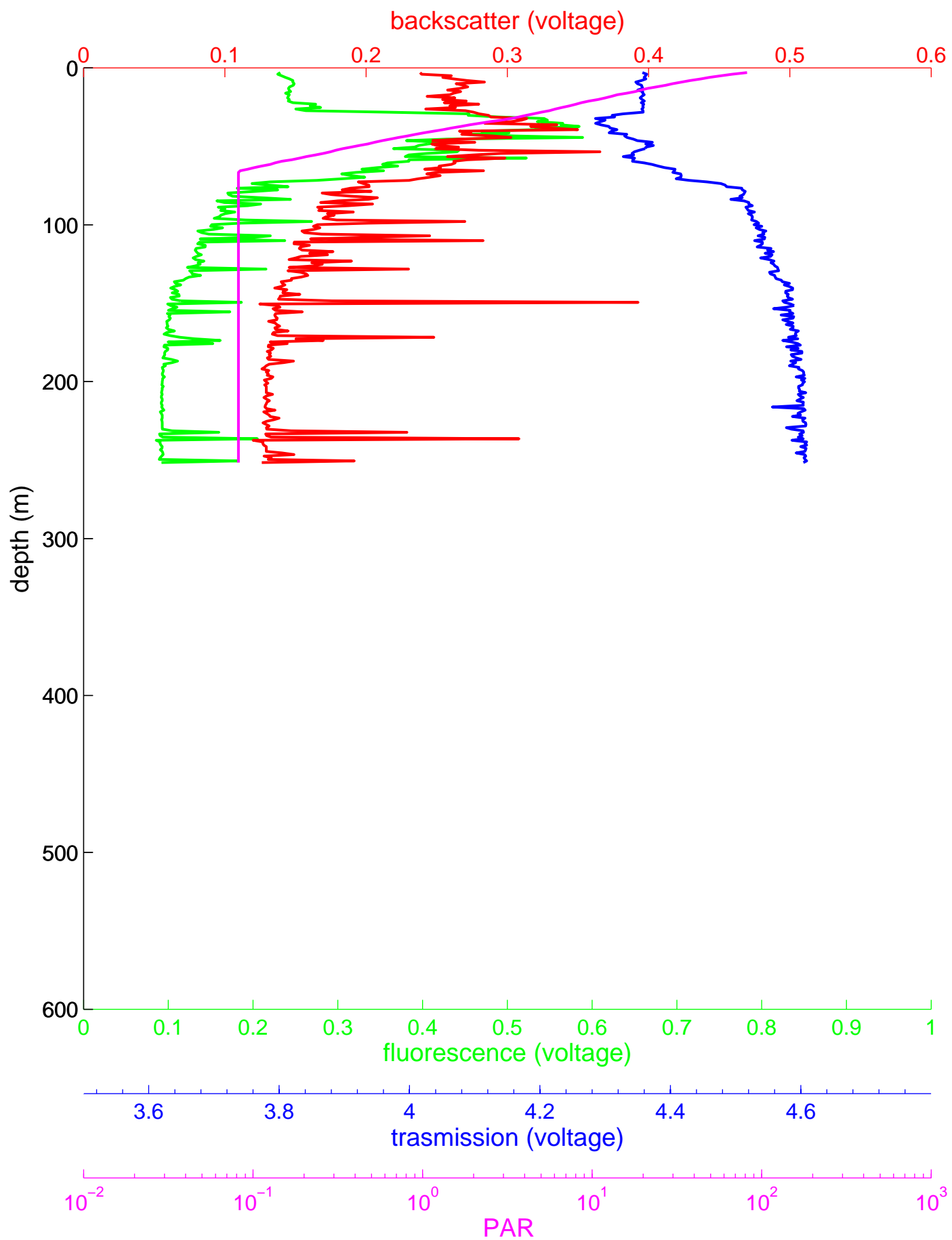
St: 89a Cast: 082 15-May-2008 05:51:25



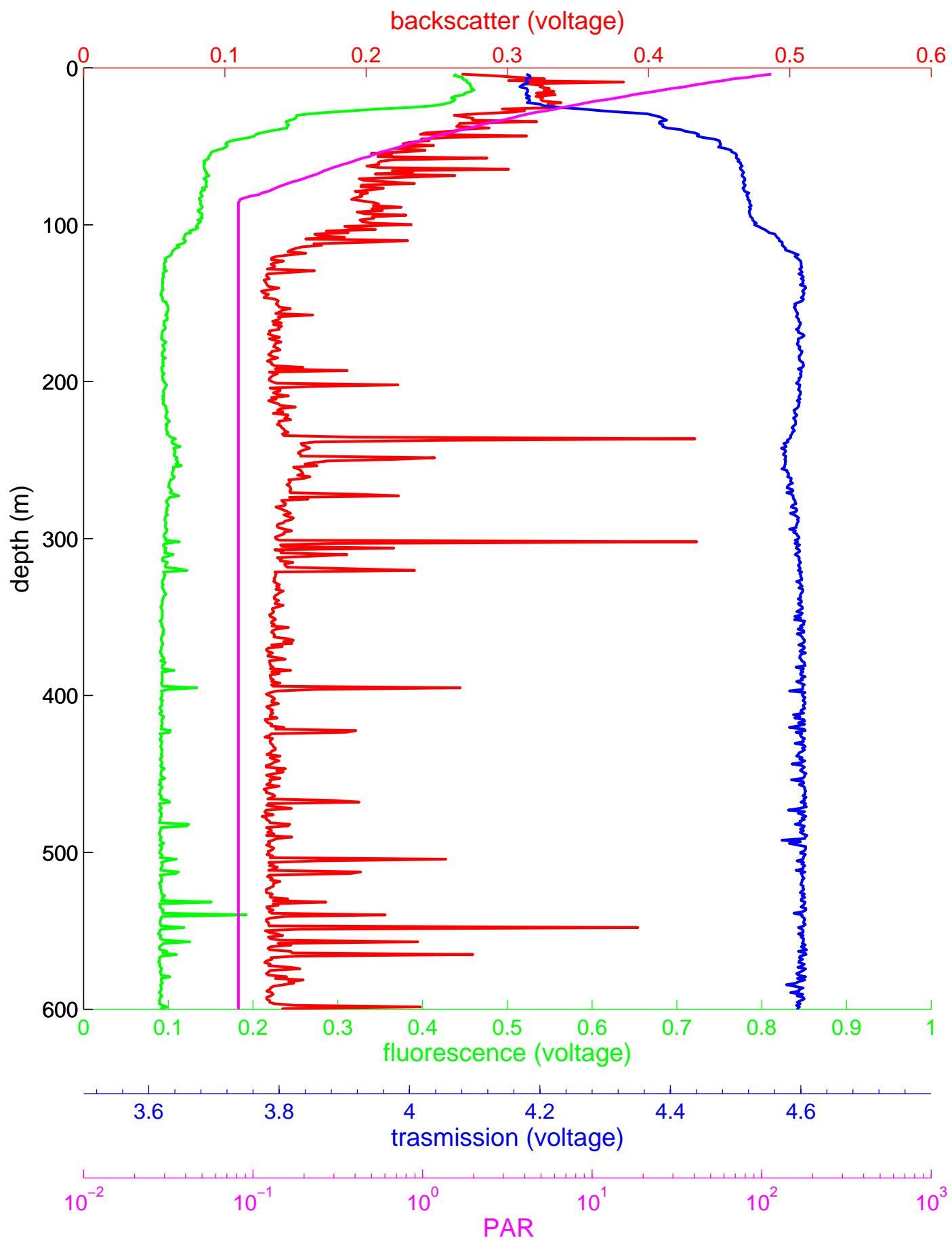
St: 89a Cast: 083 15-May-2008 06:03:21



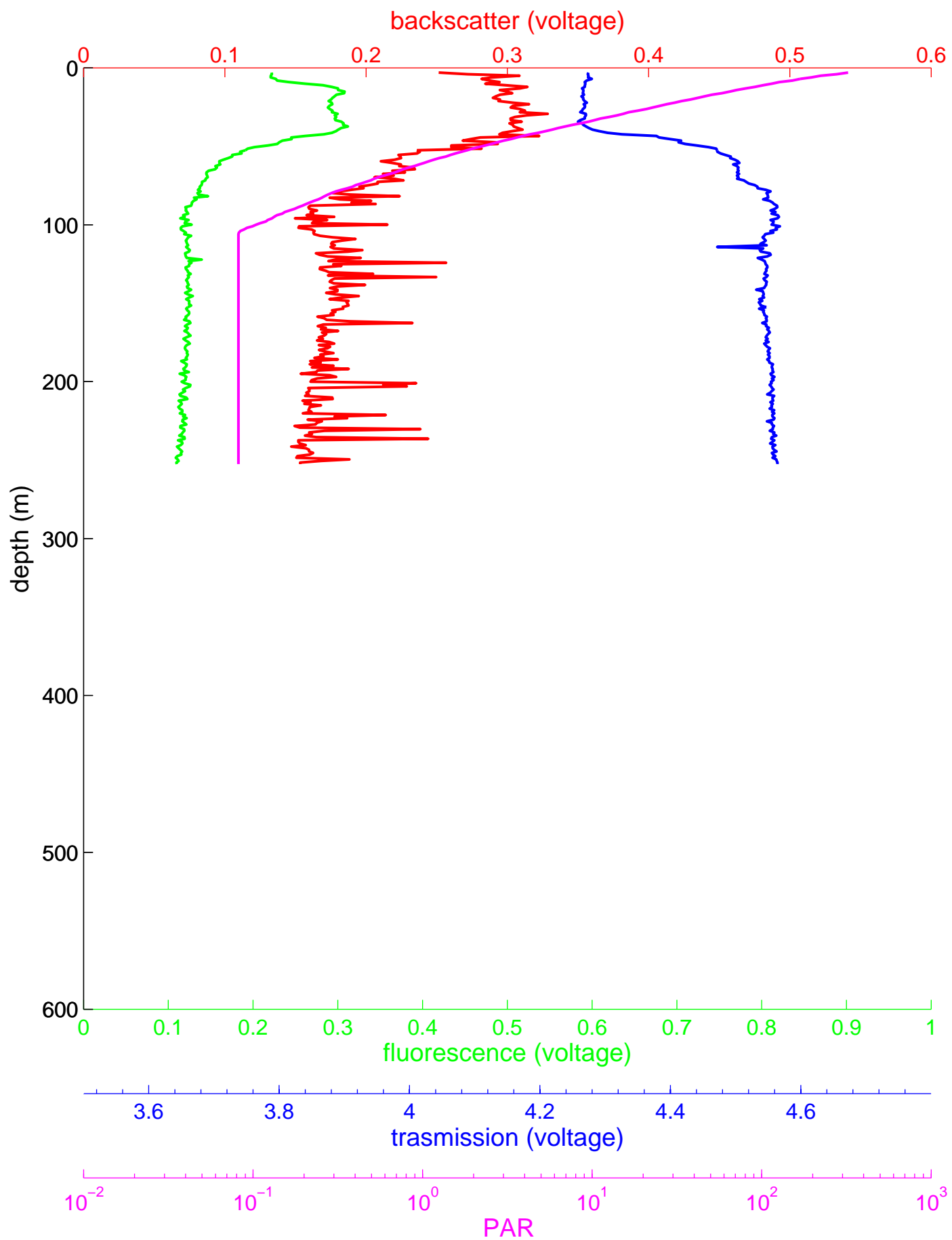
St: 90a Cast: 084 15-May-2008 07:32:08



St: 91a Cast: 085 15-May-2008 08:40:50

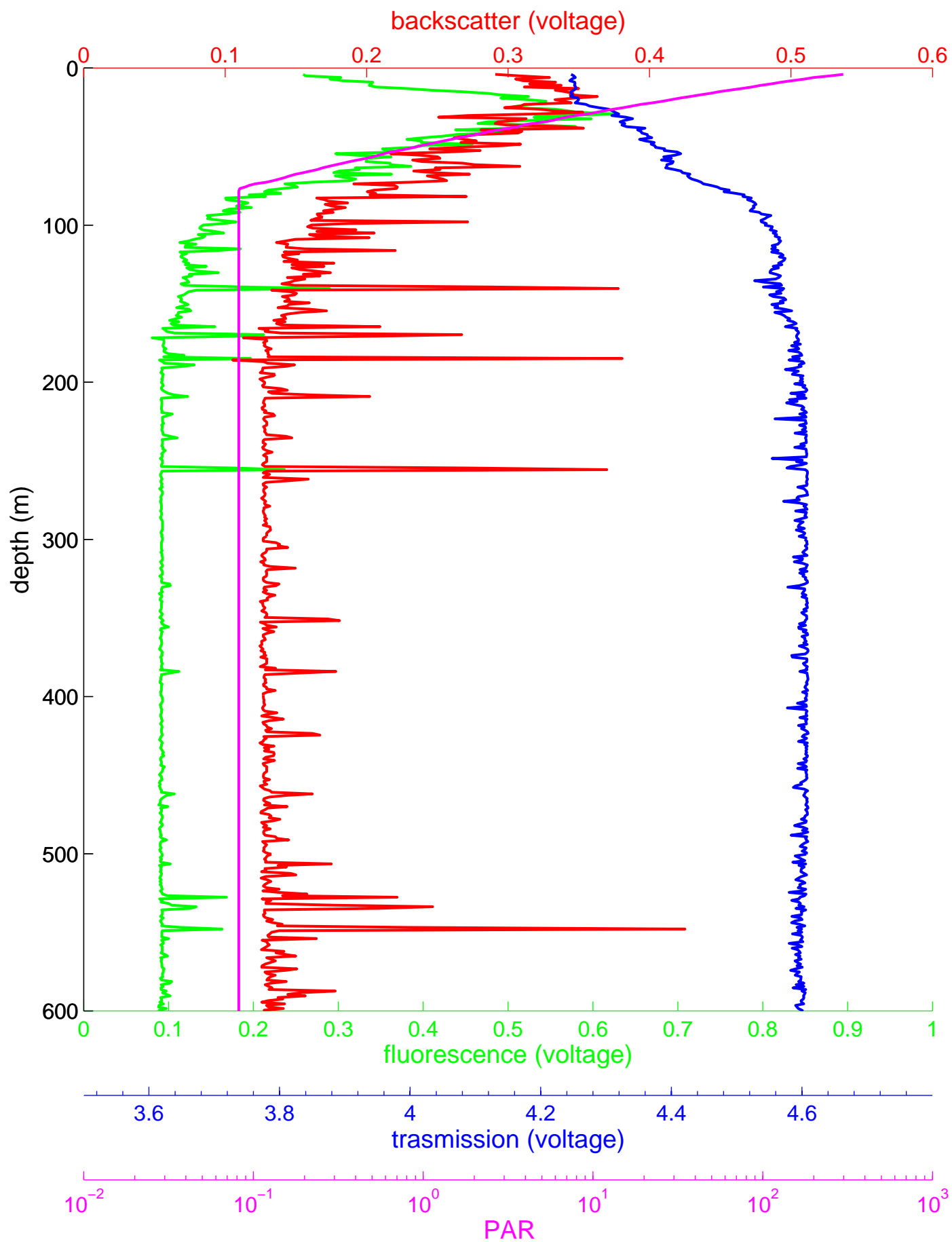


St: 92a Cast: 086 15-May-2008 10:16:52

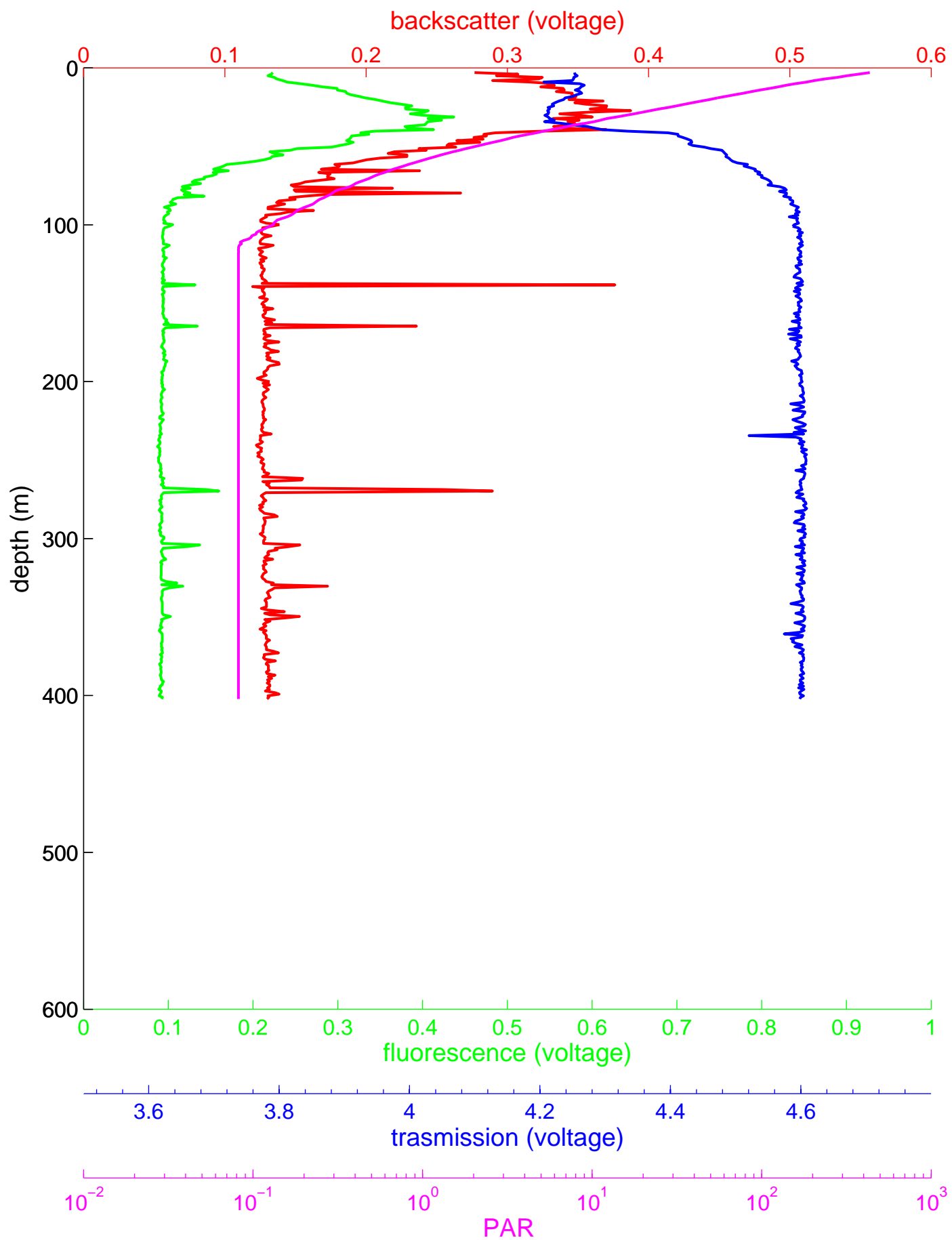




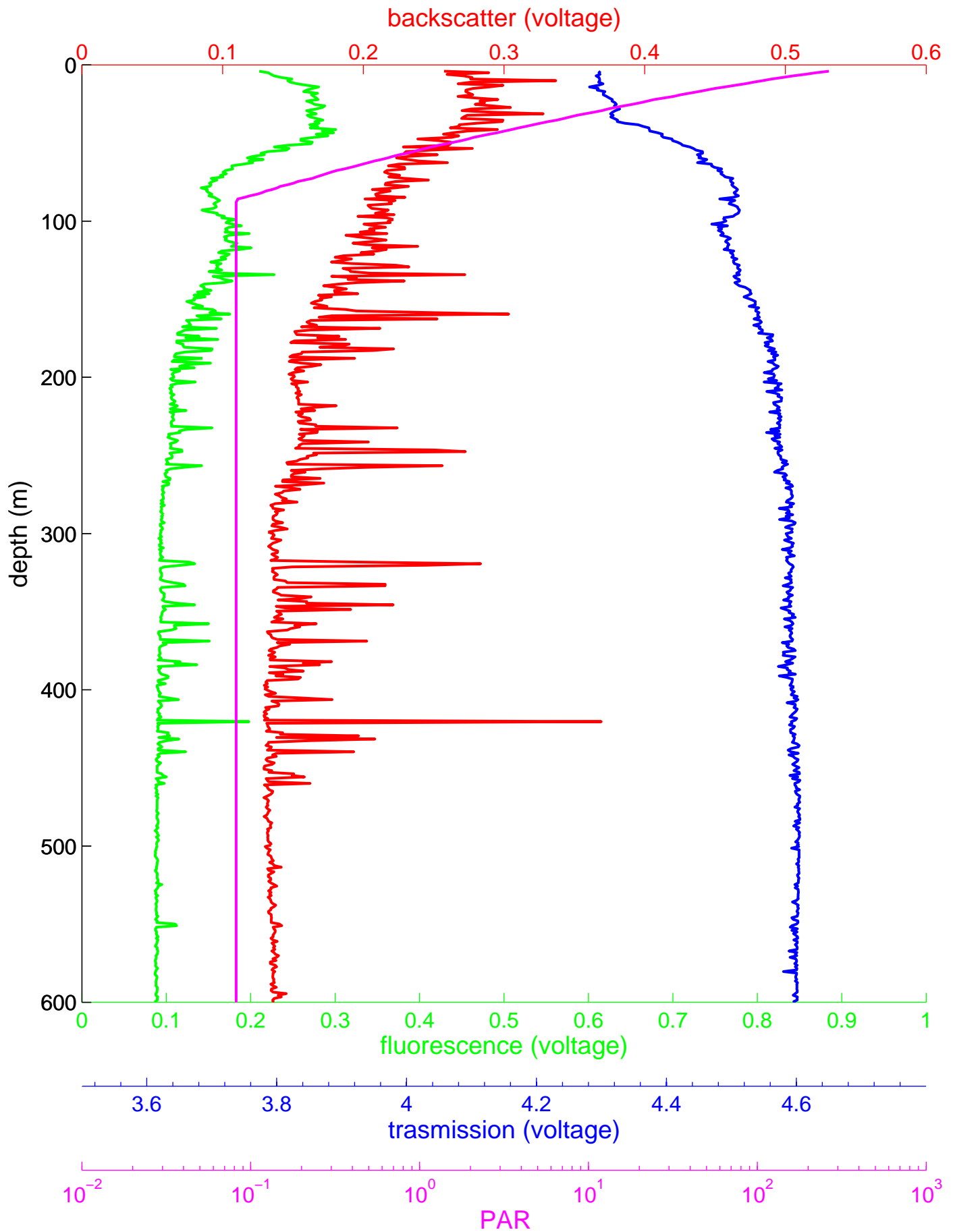
St: 93a Cast: 087 15-May-2008 11:17:21



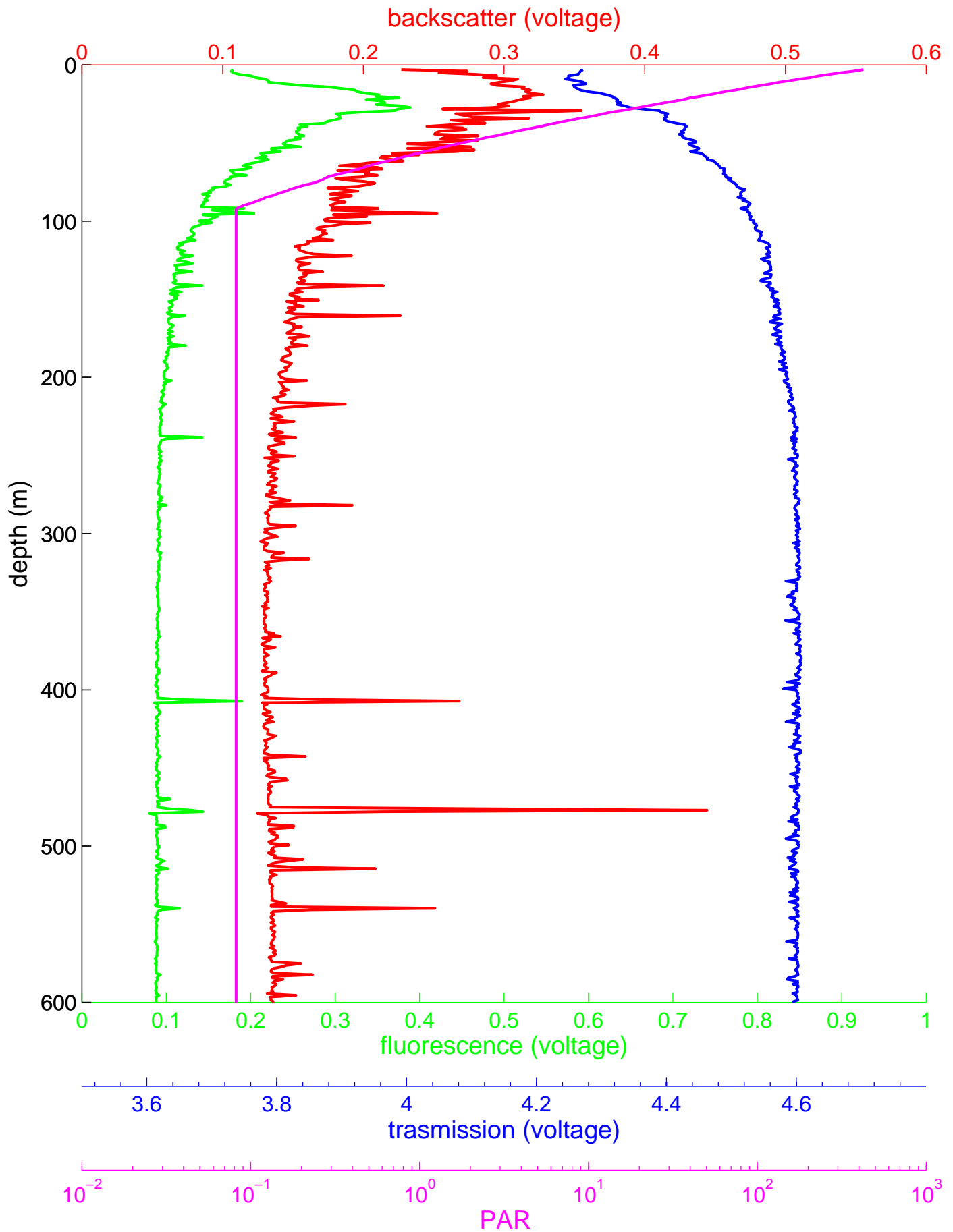
St: 94a Cast: 088 15-May-2008 16:22:47



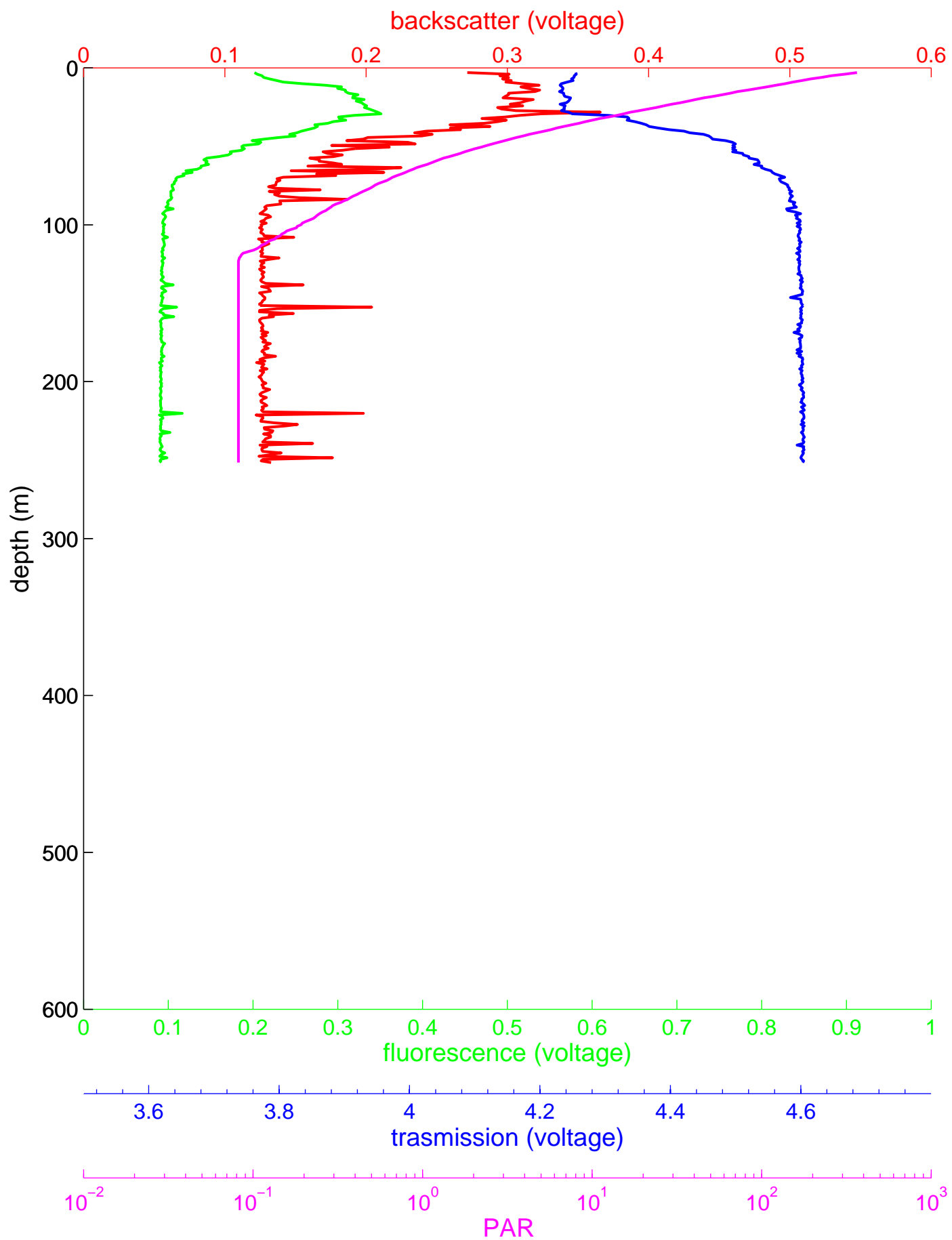
St: 100a Cast: 089 16-May-2008 11:11:17



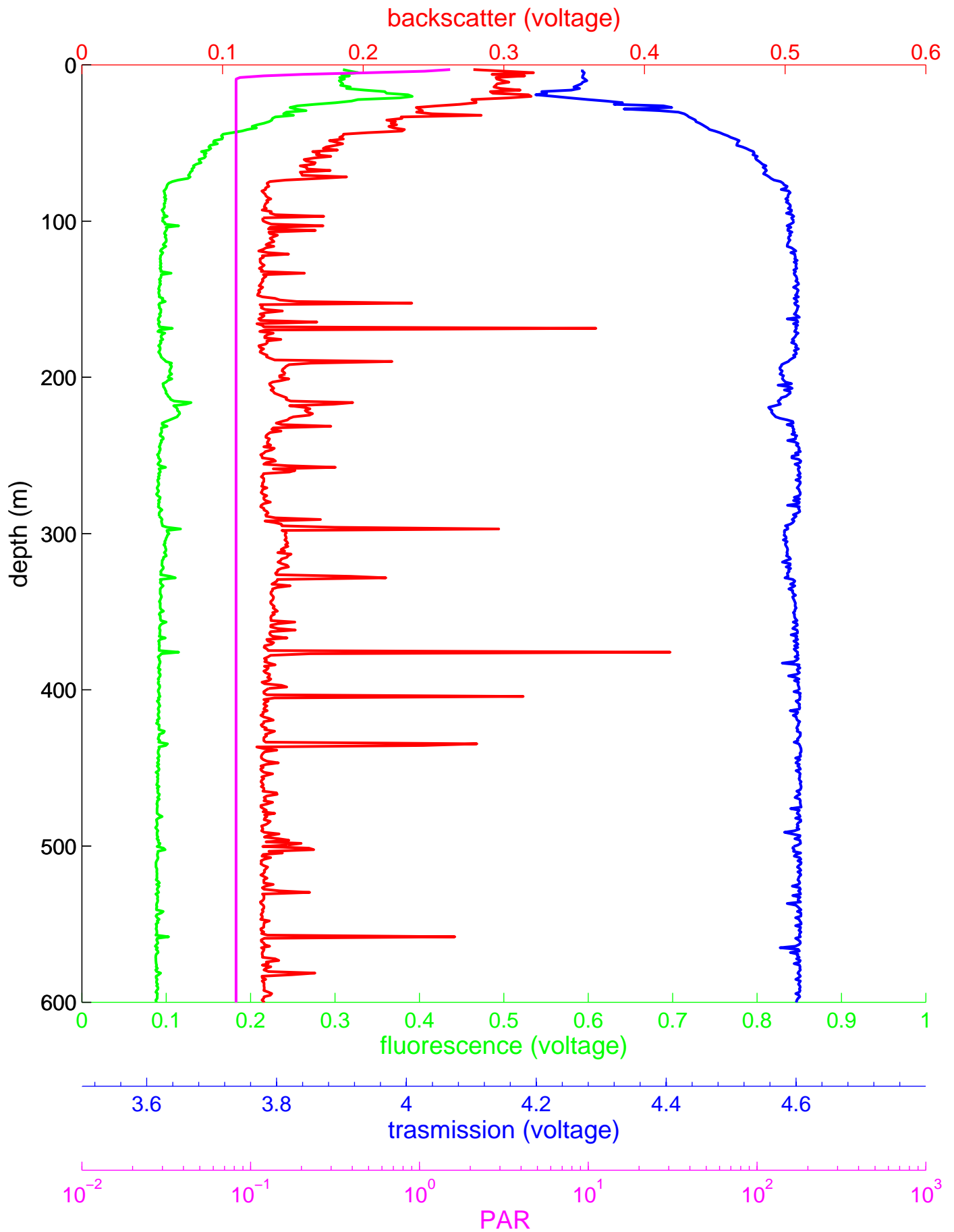
St: 100e Cast: 090 16-May-2008 13:44:28



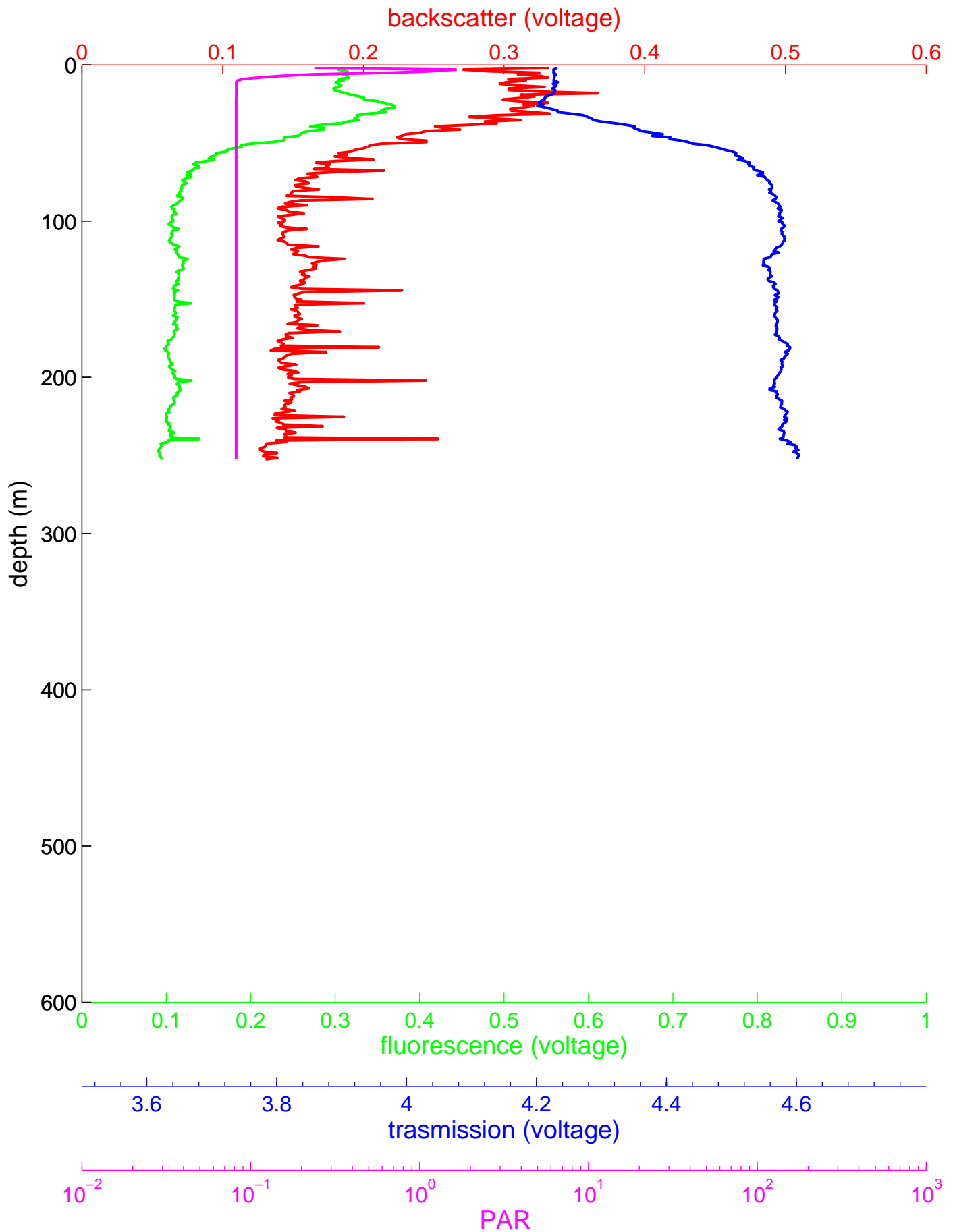
St: 101b Cast: 091 16-May-2008 16:56:23



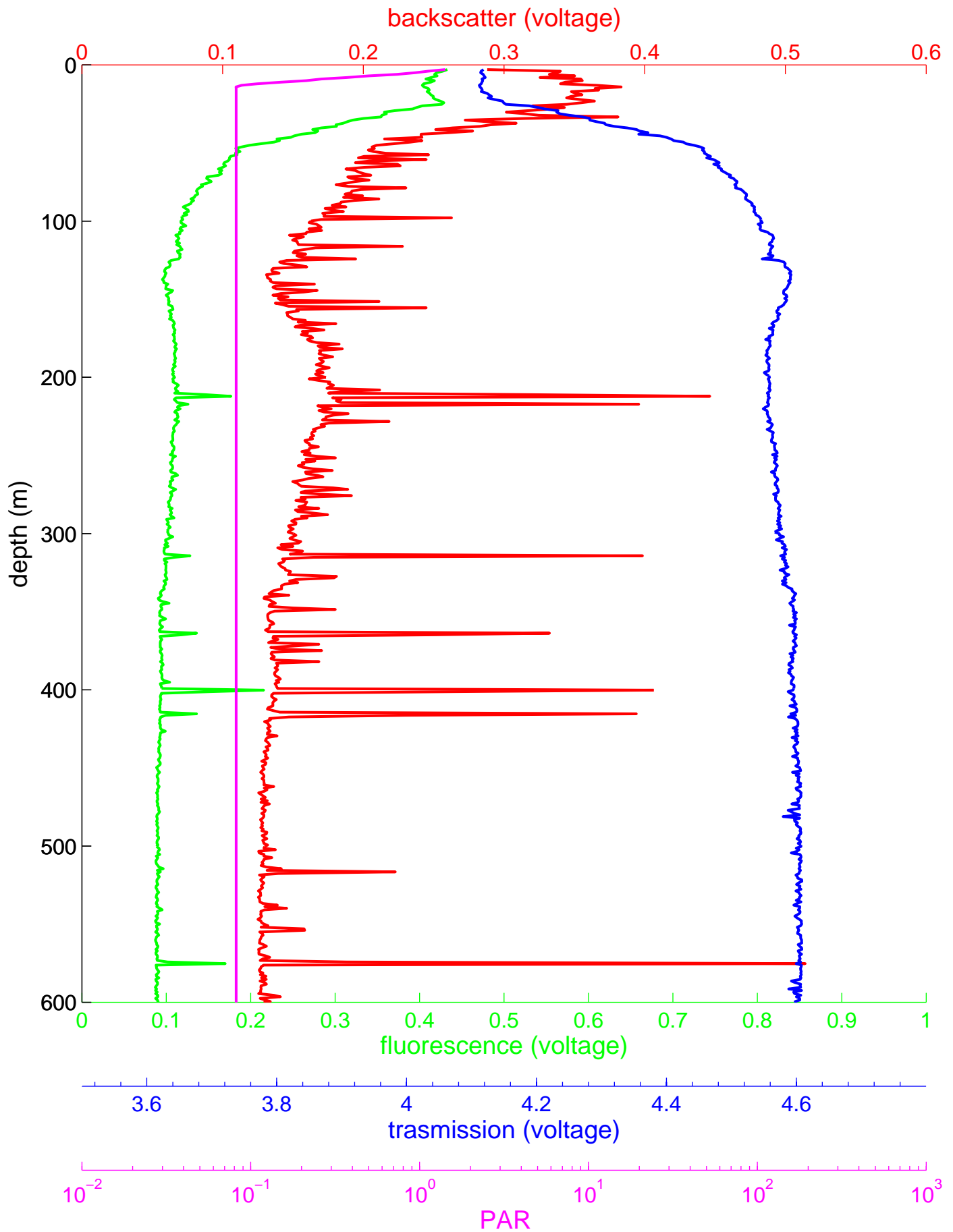
St: 102a Cast: 092 17-May-2008 00:49:39



St: 103c Cast: 093 17-May-2008 03:10:04

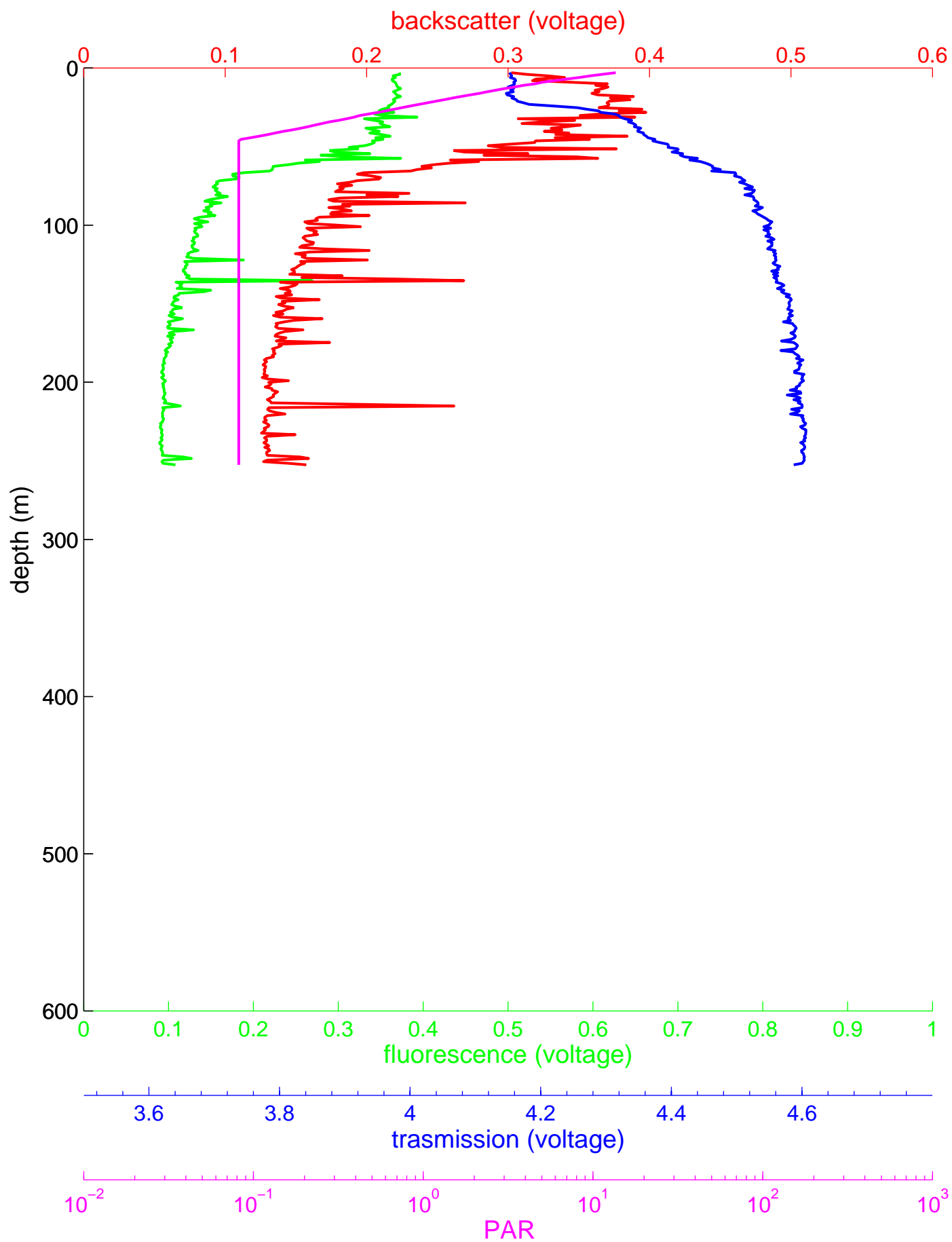


St: 104a Cast: 094 17-May-2008 04:15:32

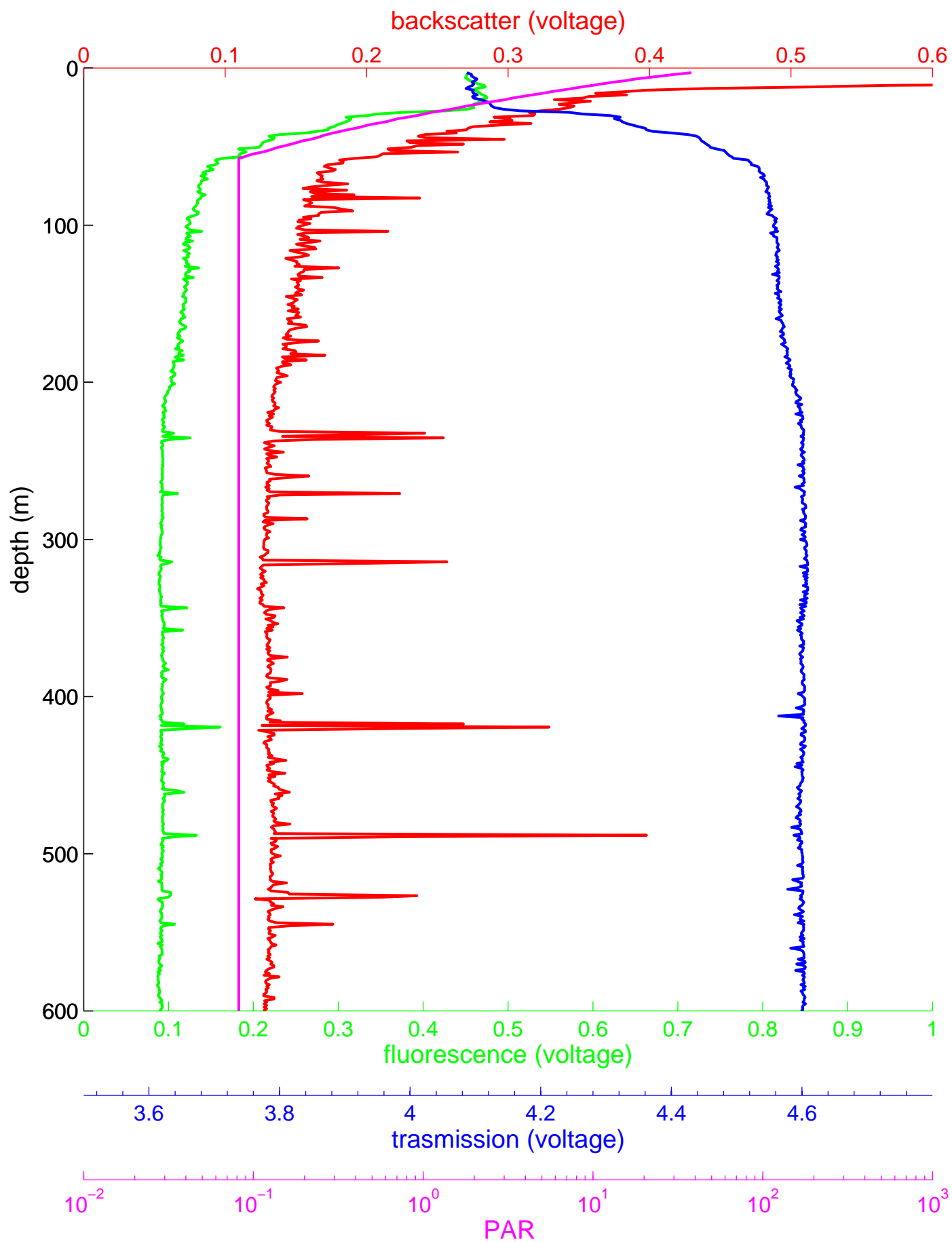




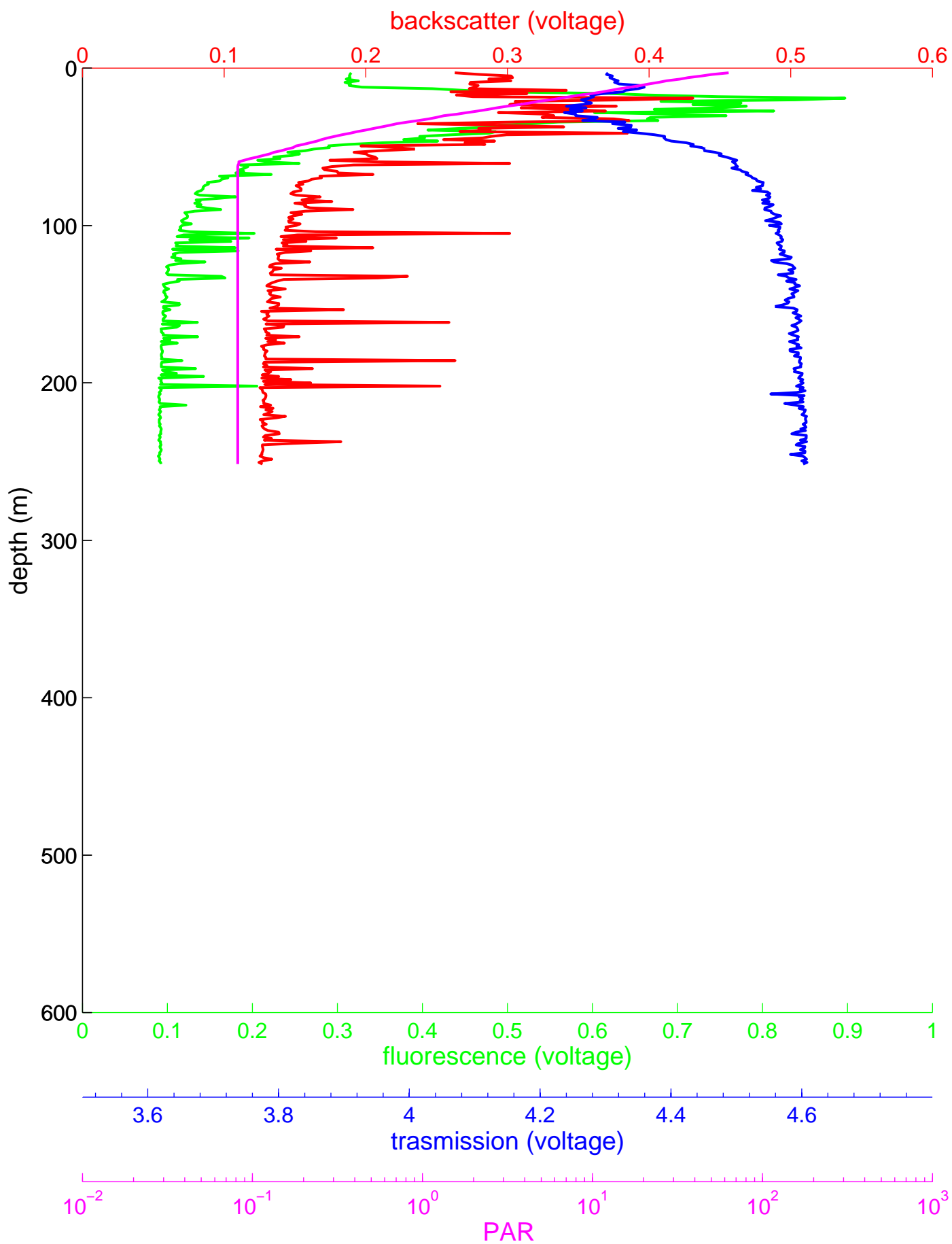
St: 105a Cast: 095 17-May-2008 05:43:45



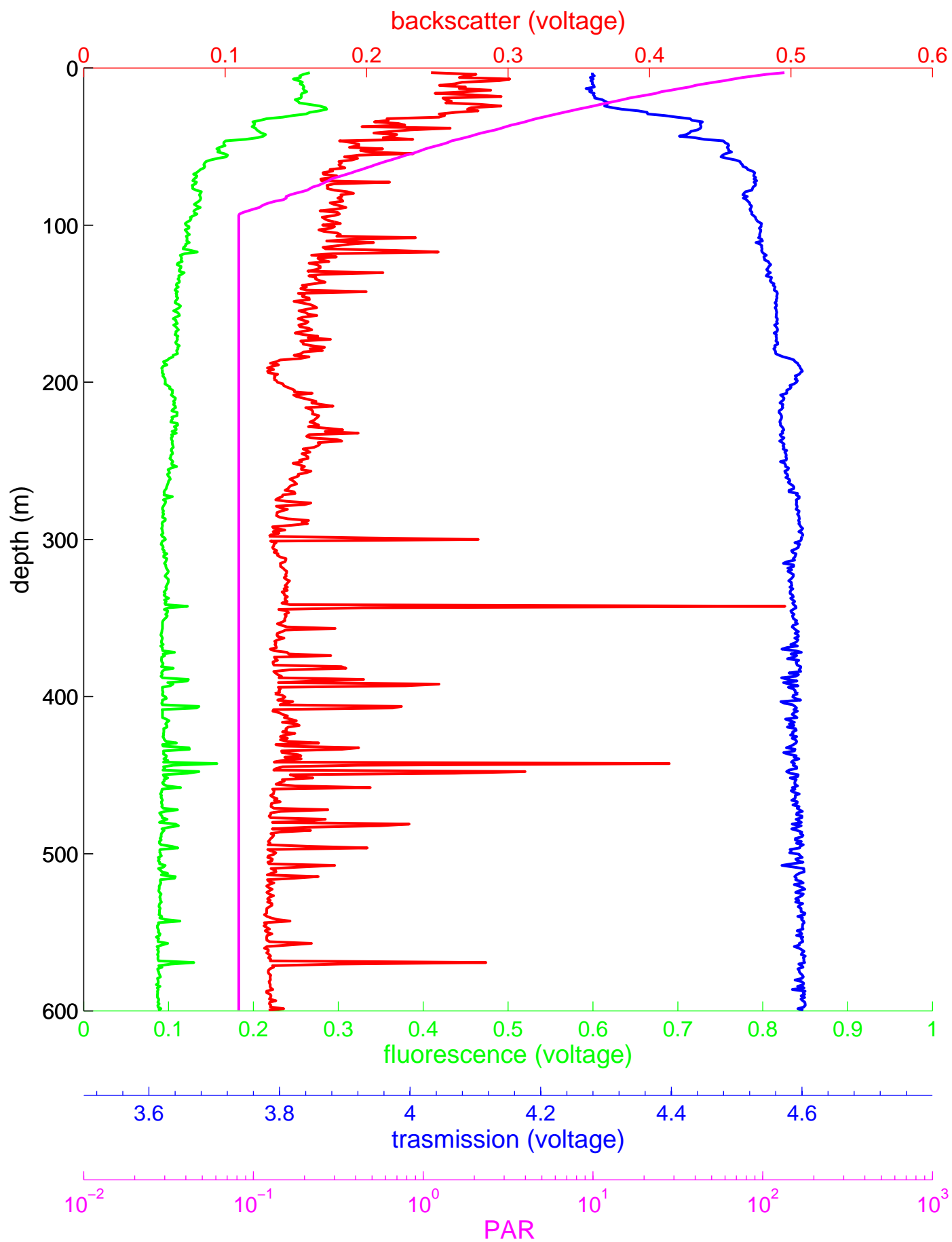
St: 106a Cast: 096 17-May-2008 06:50:21



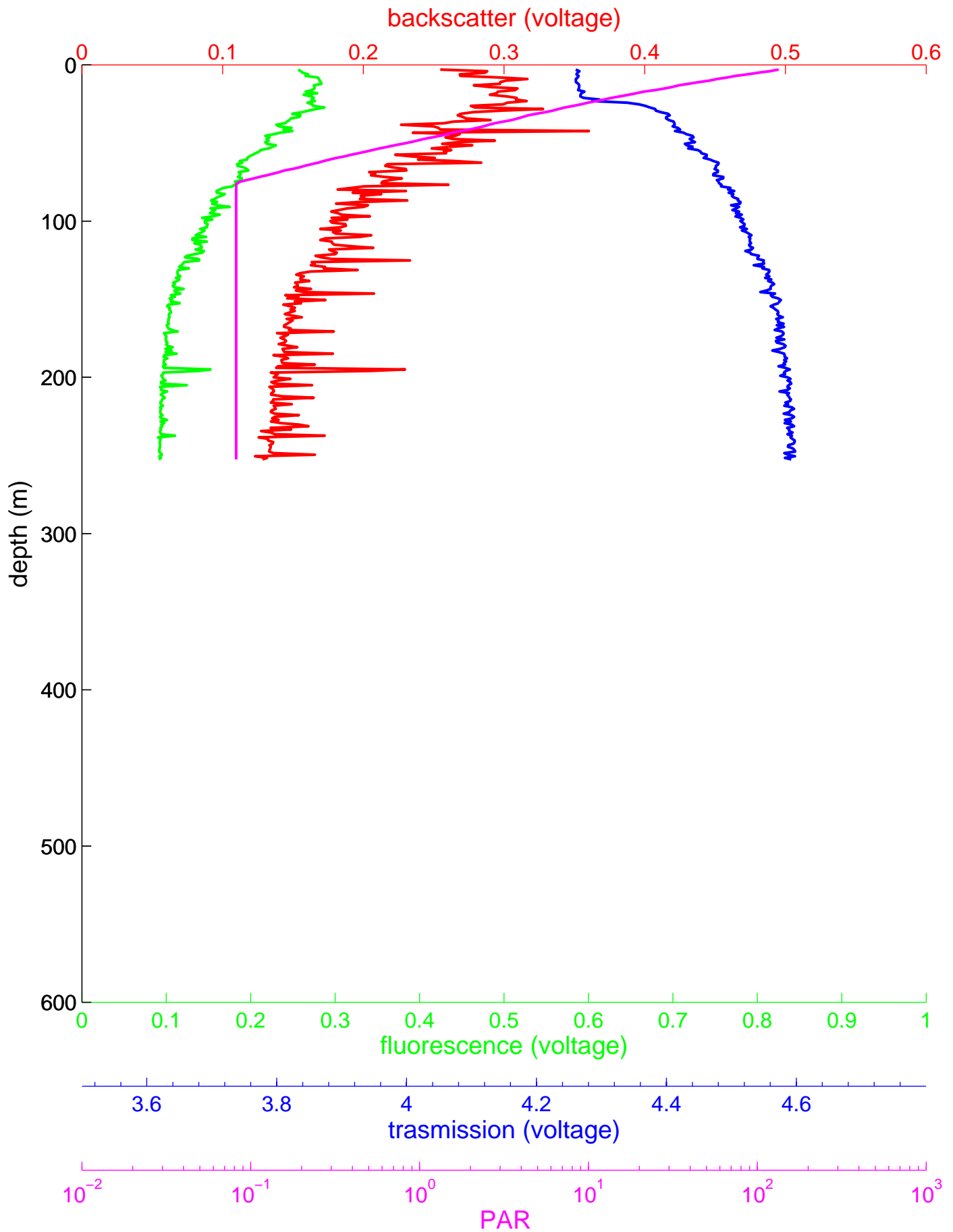
St: 107a Cast: 097 17-May-2008 08:08:35



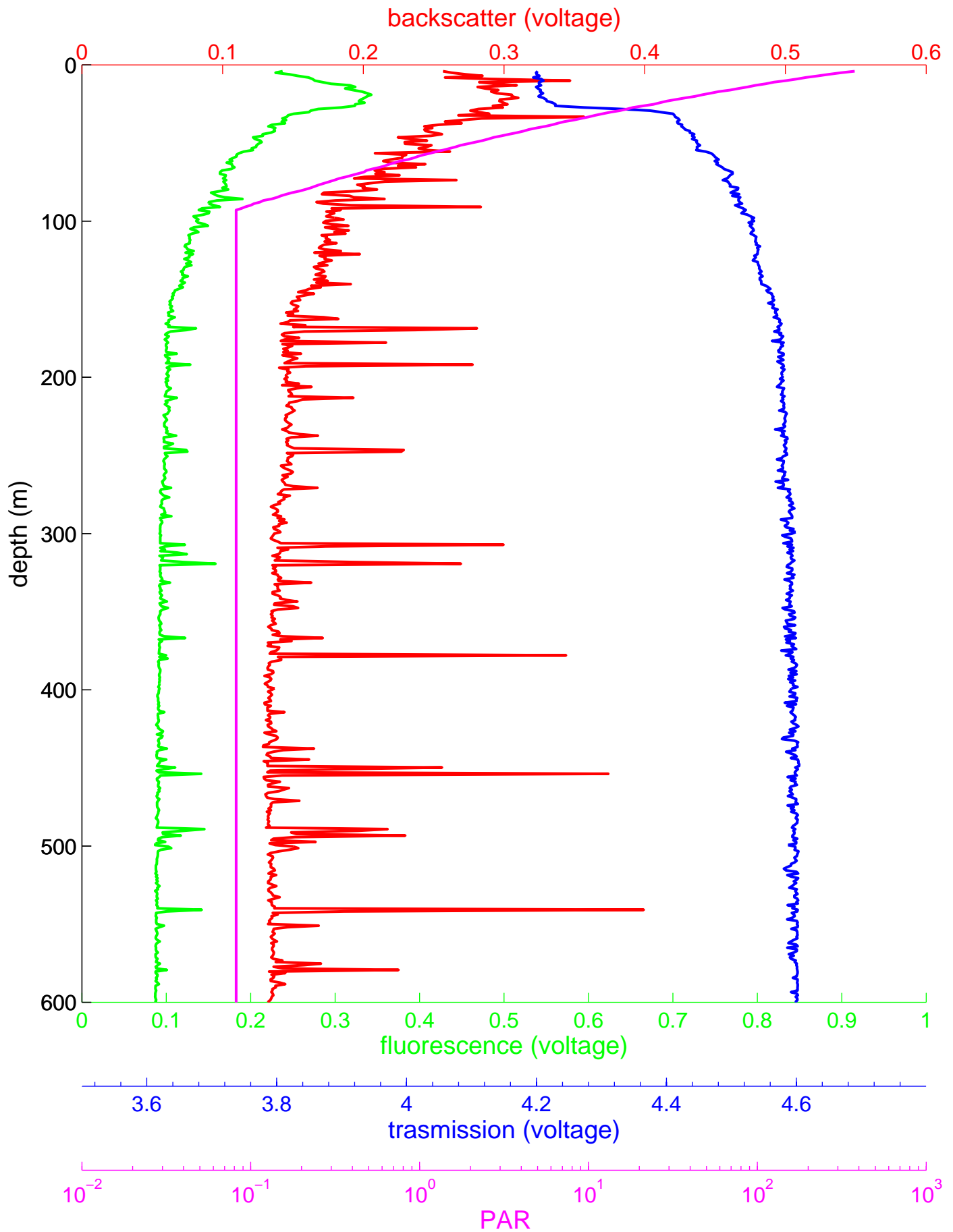
St: 108a Cast: 098 17-May-2008 09:15:20



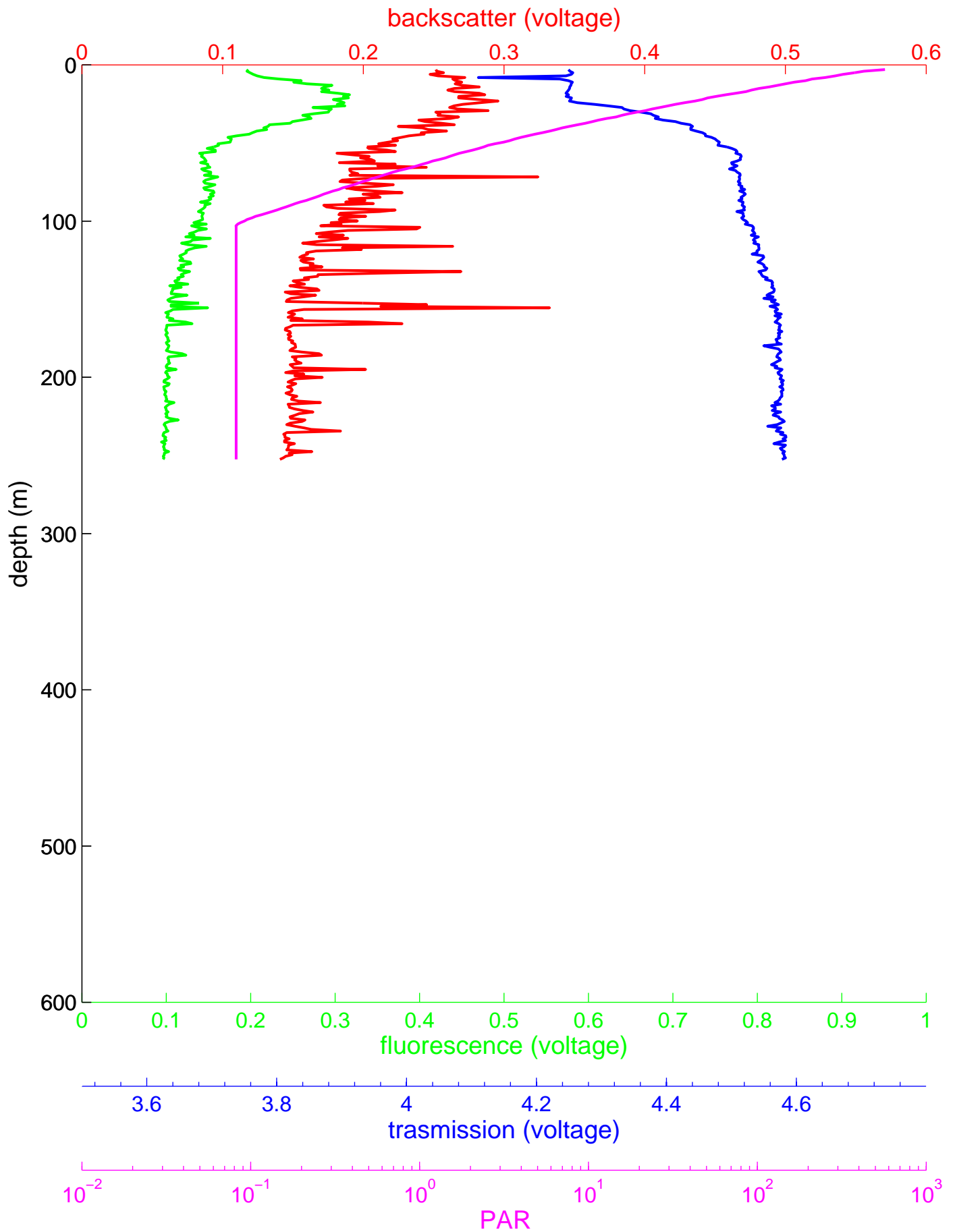
St: 109a Cast: 099 17-May-2008 10:37:46



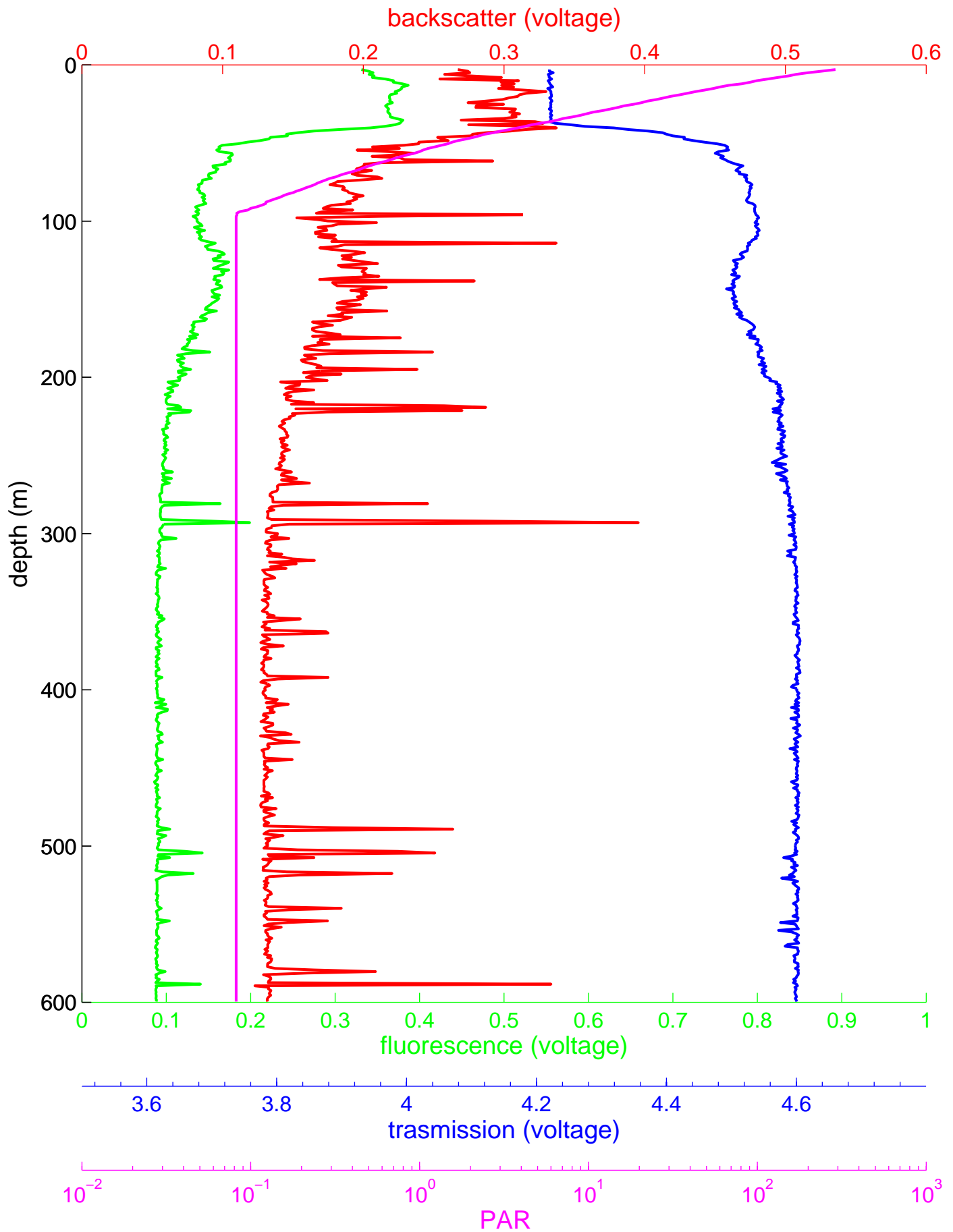
St: 109a Cast: 100 17-May-2008 11:52:18



St: 111a Cast: 101 17-May-2008 16:00:27

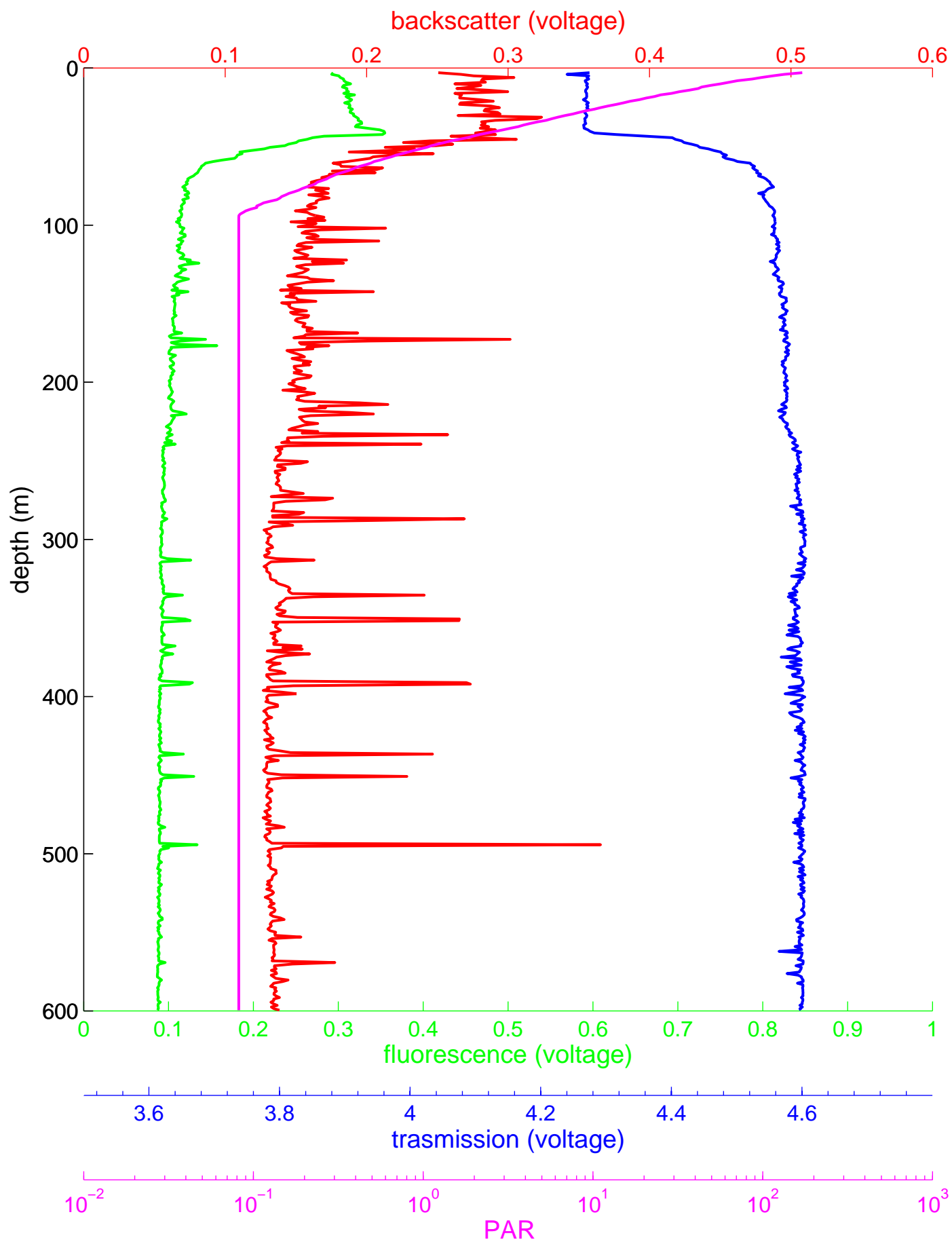


St: 112a Cast: 102 17-May-2008 17:31:30

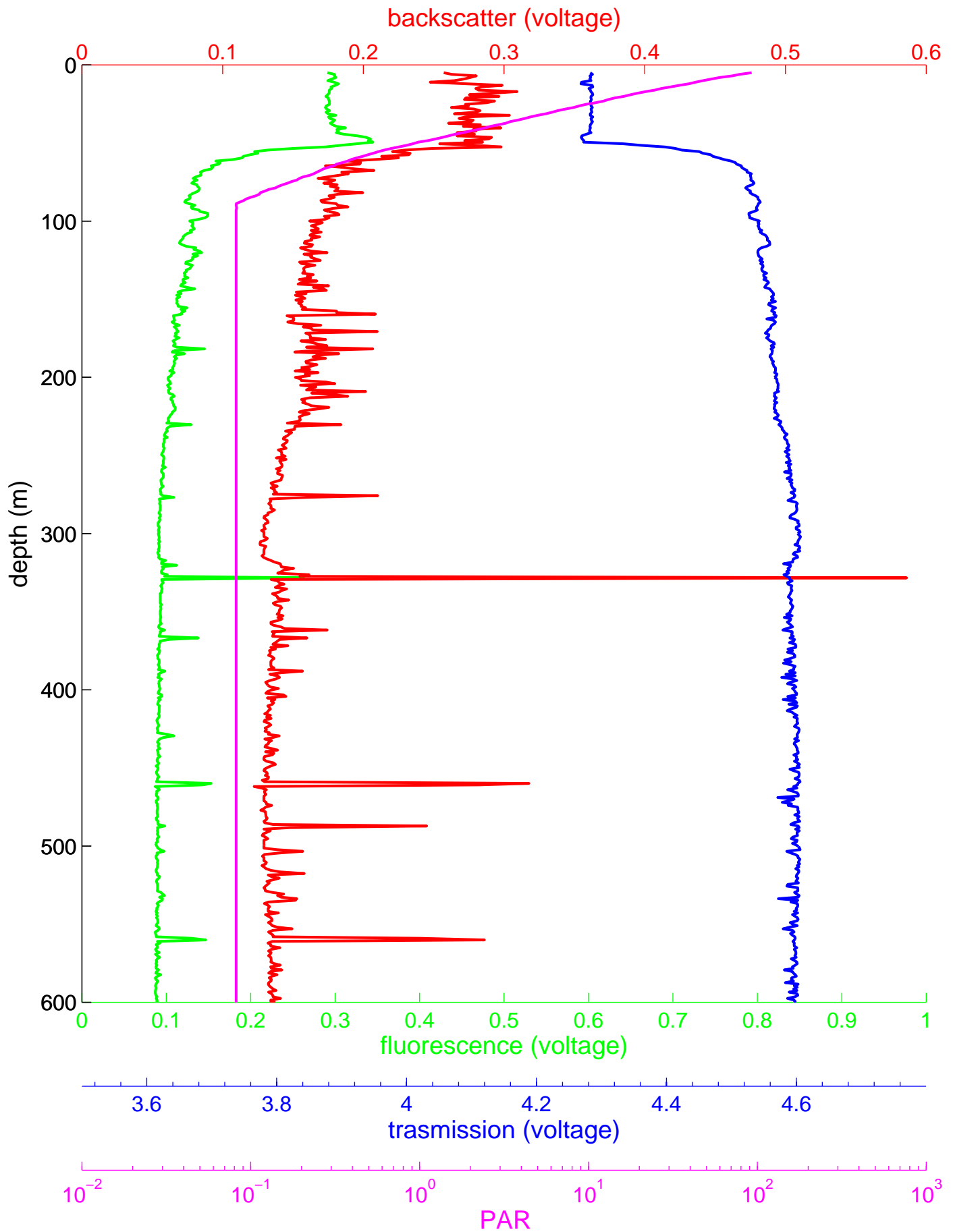




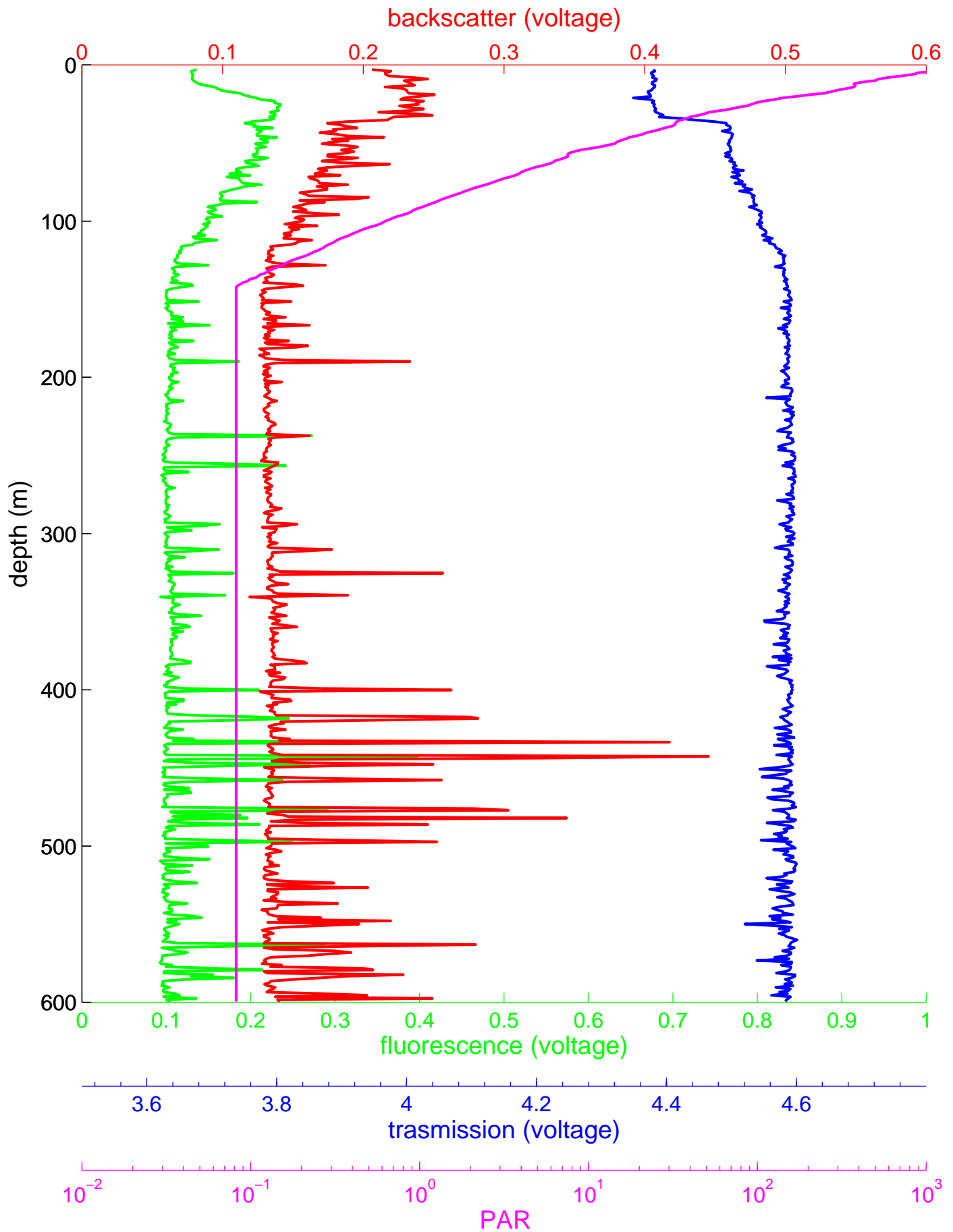
St: 113a Cast: 103 17-May-2008 18:59:53



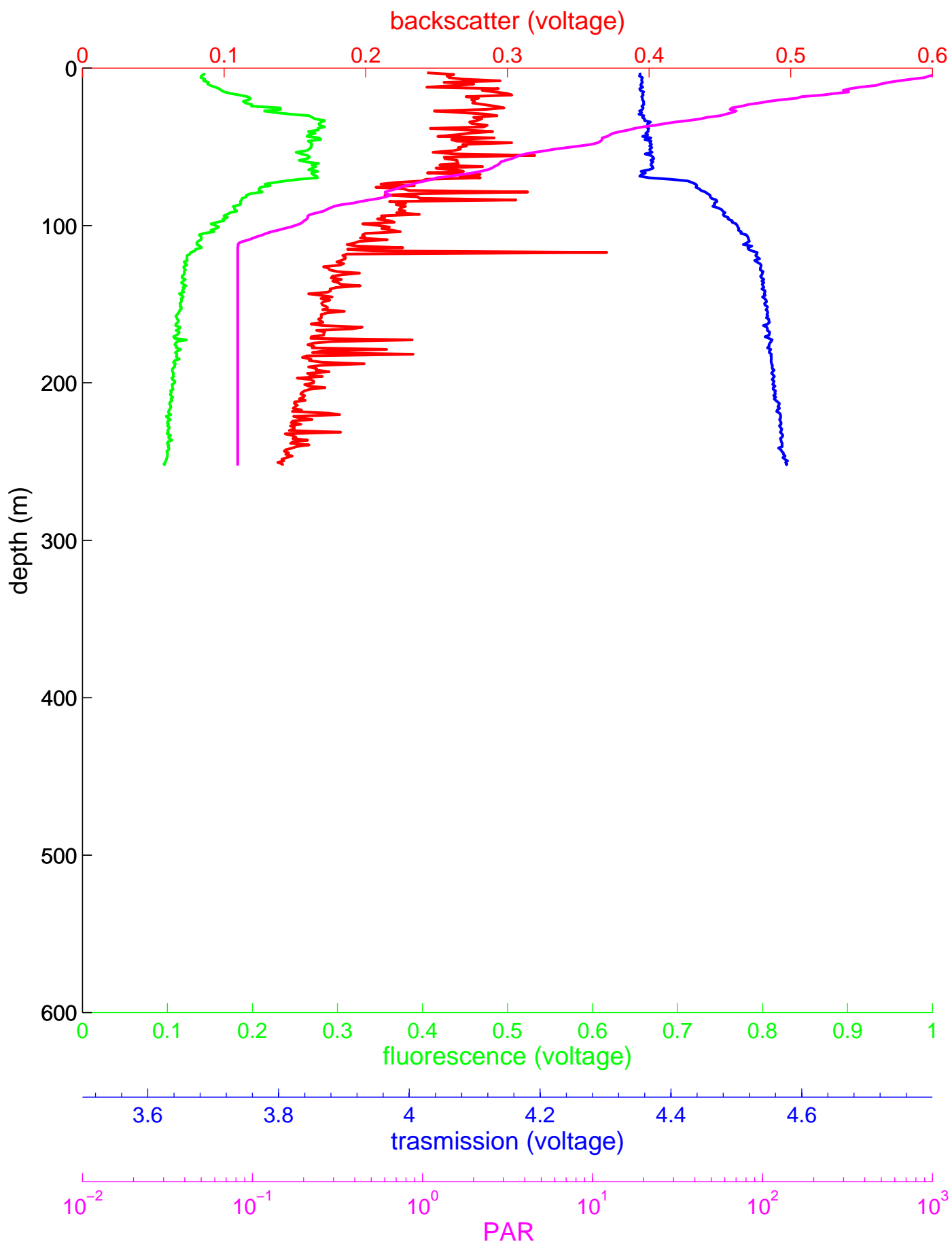
St: 114a Cast: 104 17-May-2008 20:13:12



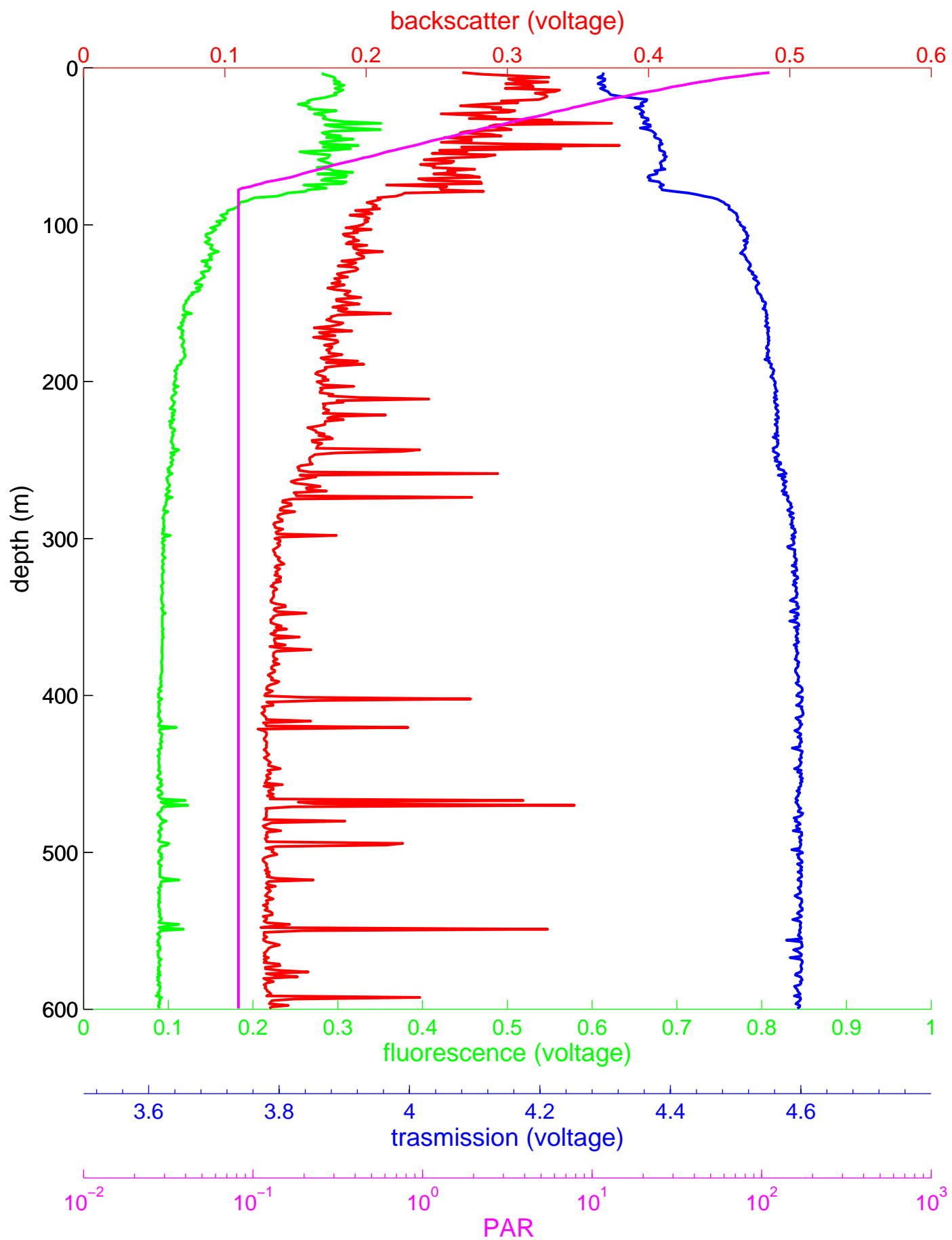
St: 116a Cast: 105 18-May-2008 12:32:22



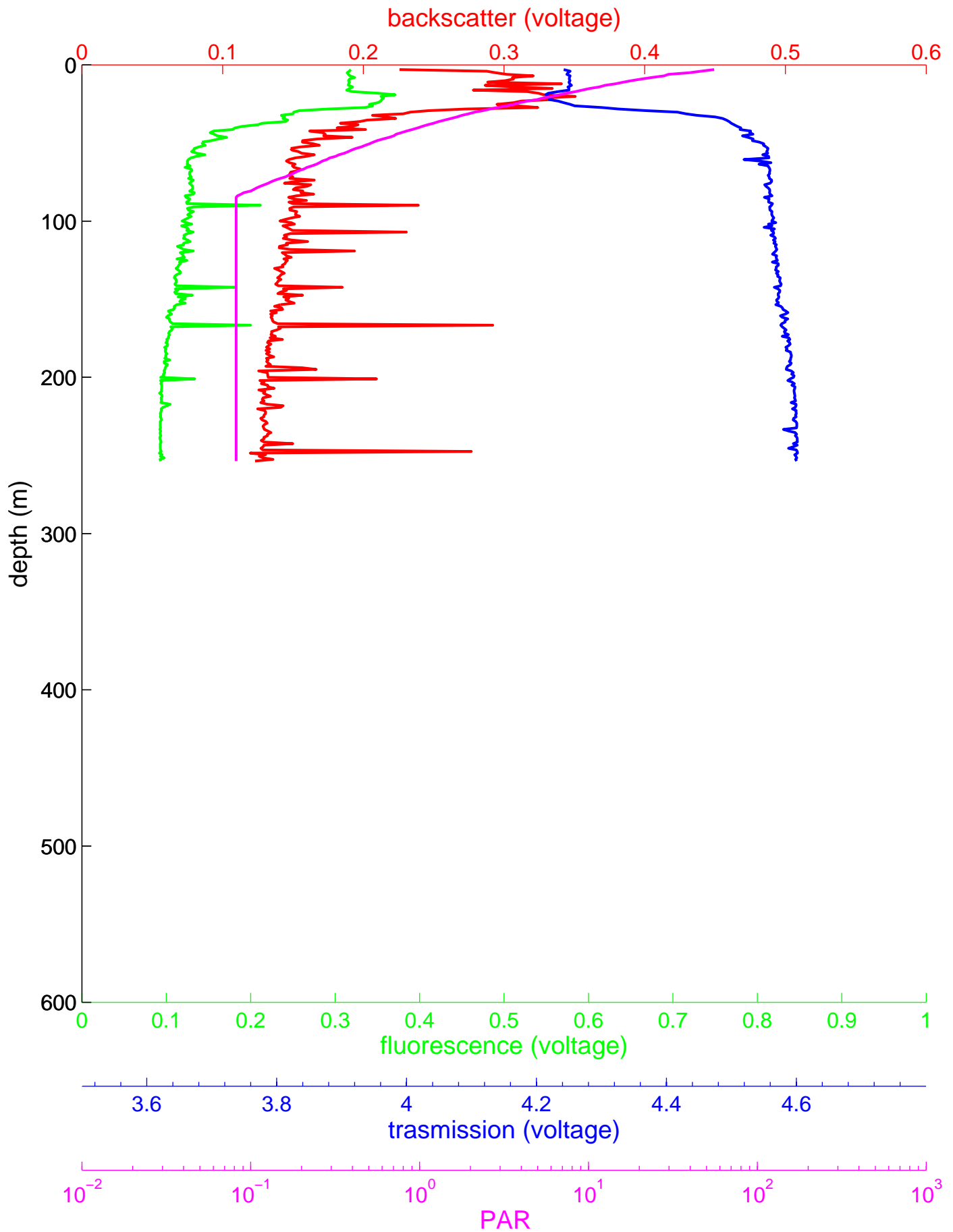
St: 117a Cast: 106 18-May-2008 15:59:48



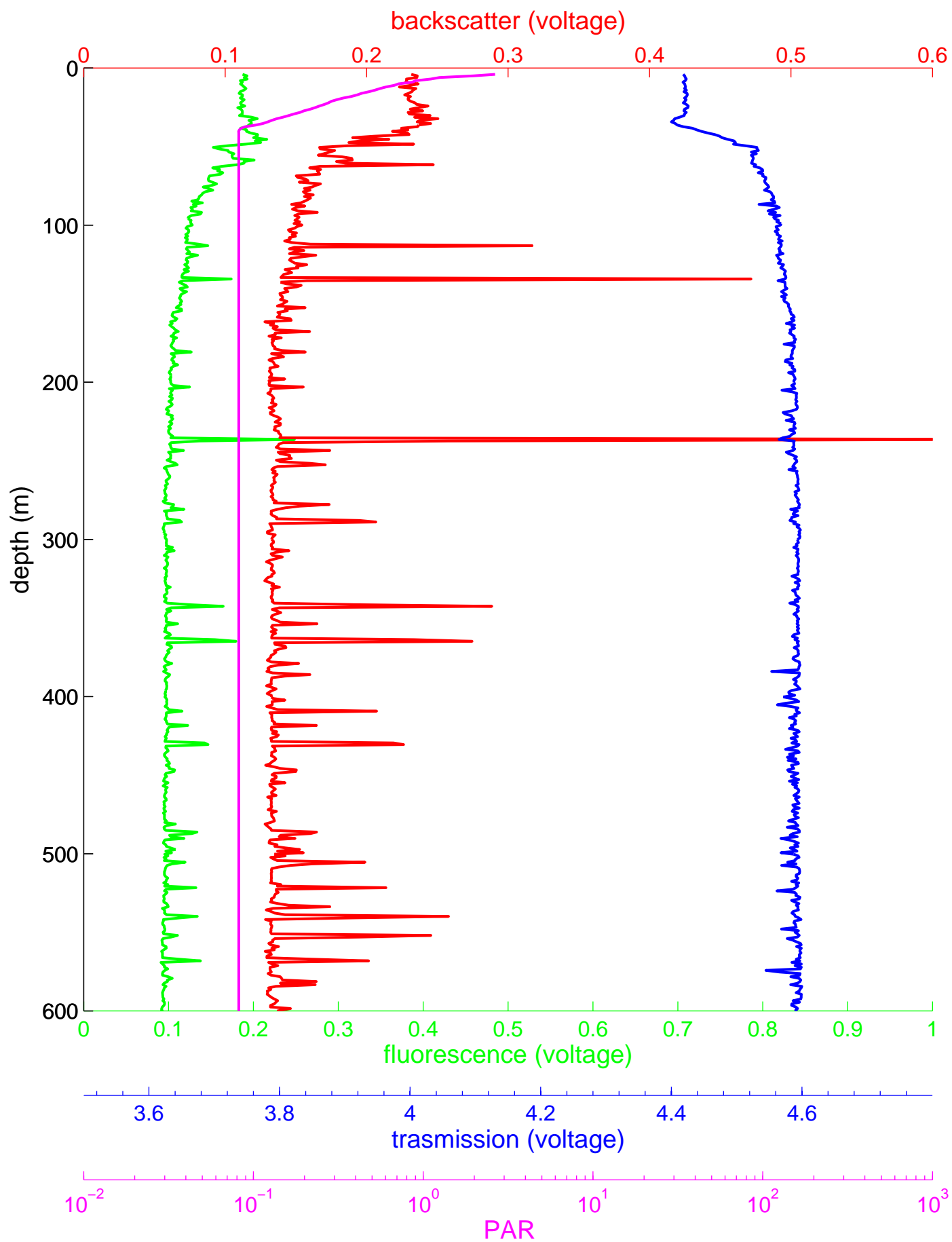
St: 118b Cast: 107 18-May-2008 19:54:36



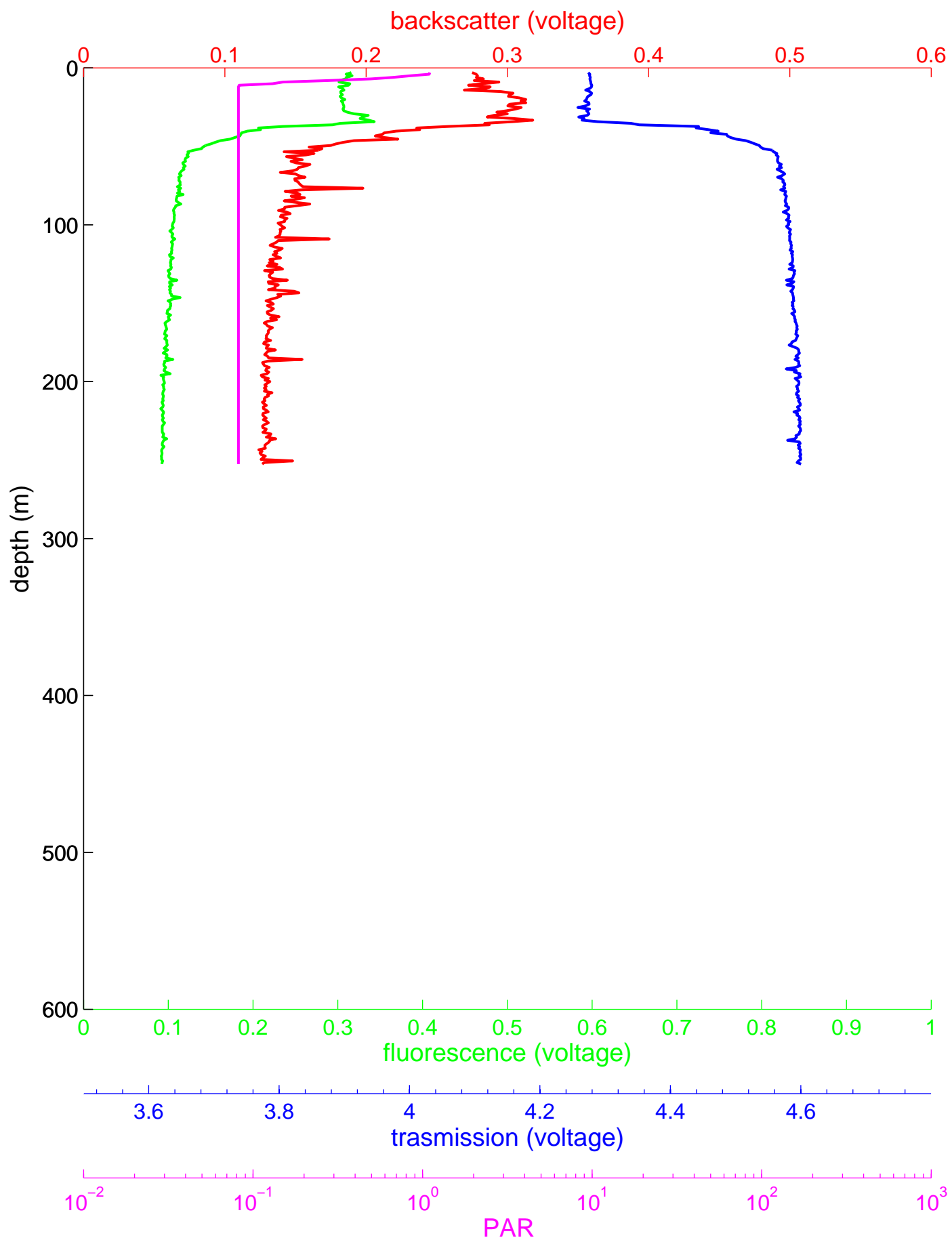
St: 119a Cast: 108 18-May-2008 21:26:59



St: 120a Cast: 110 18-May-2008 22:49:39

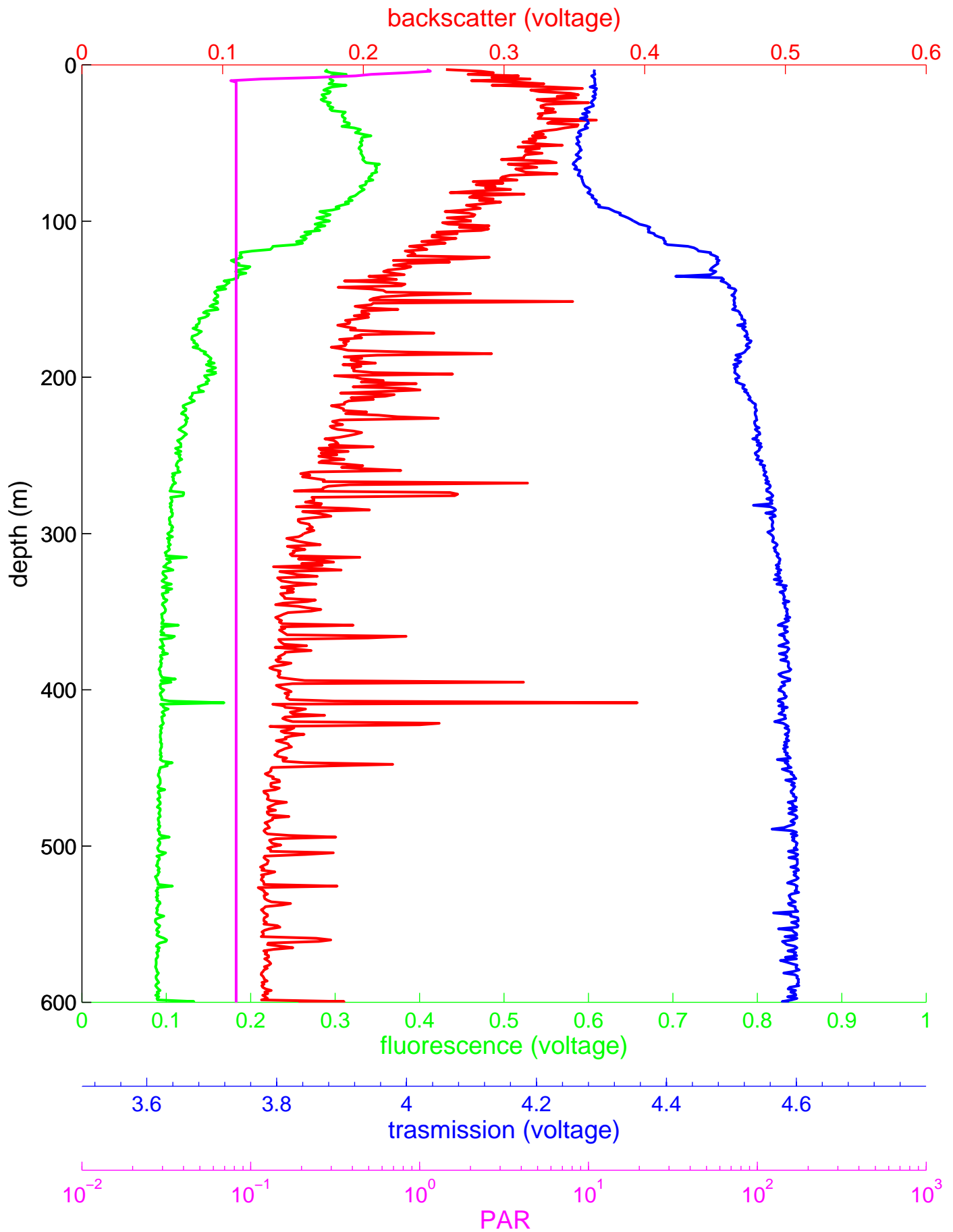


St: 121a Cast: 111 19-May-2008 02:05:37

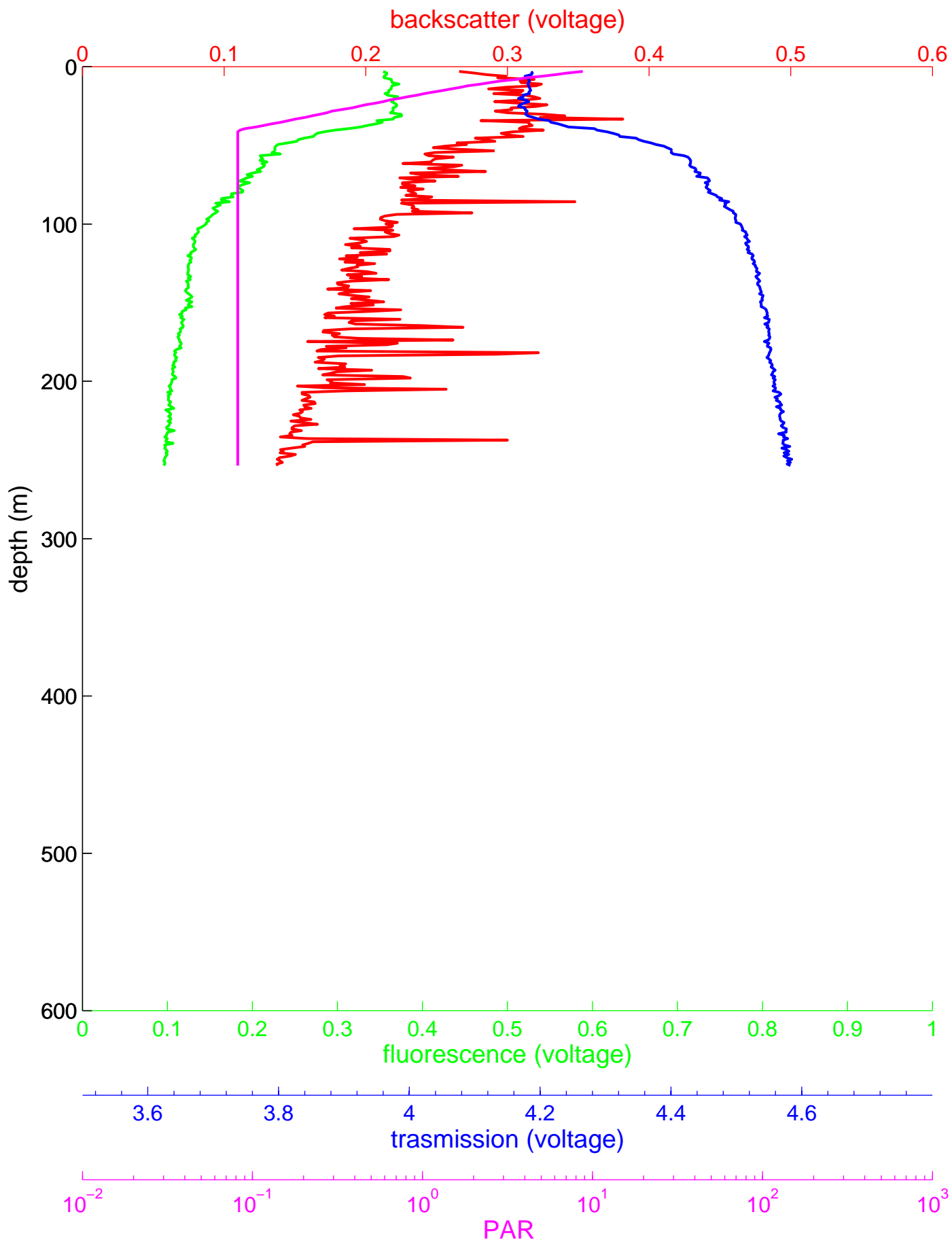




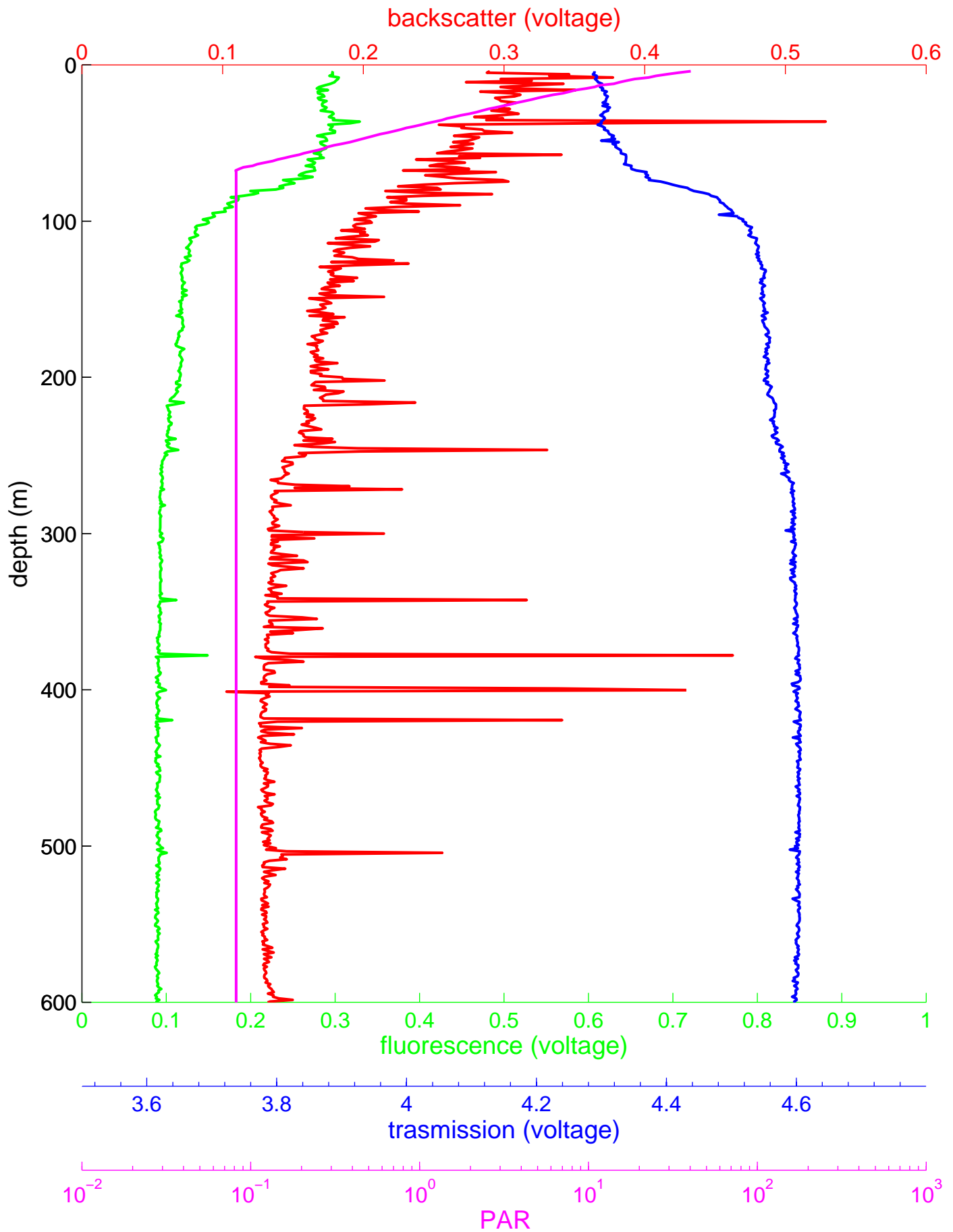
St: 122a Cast: 112 19-May-2008 03:22:38



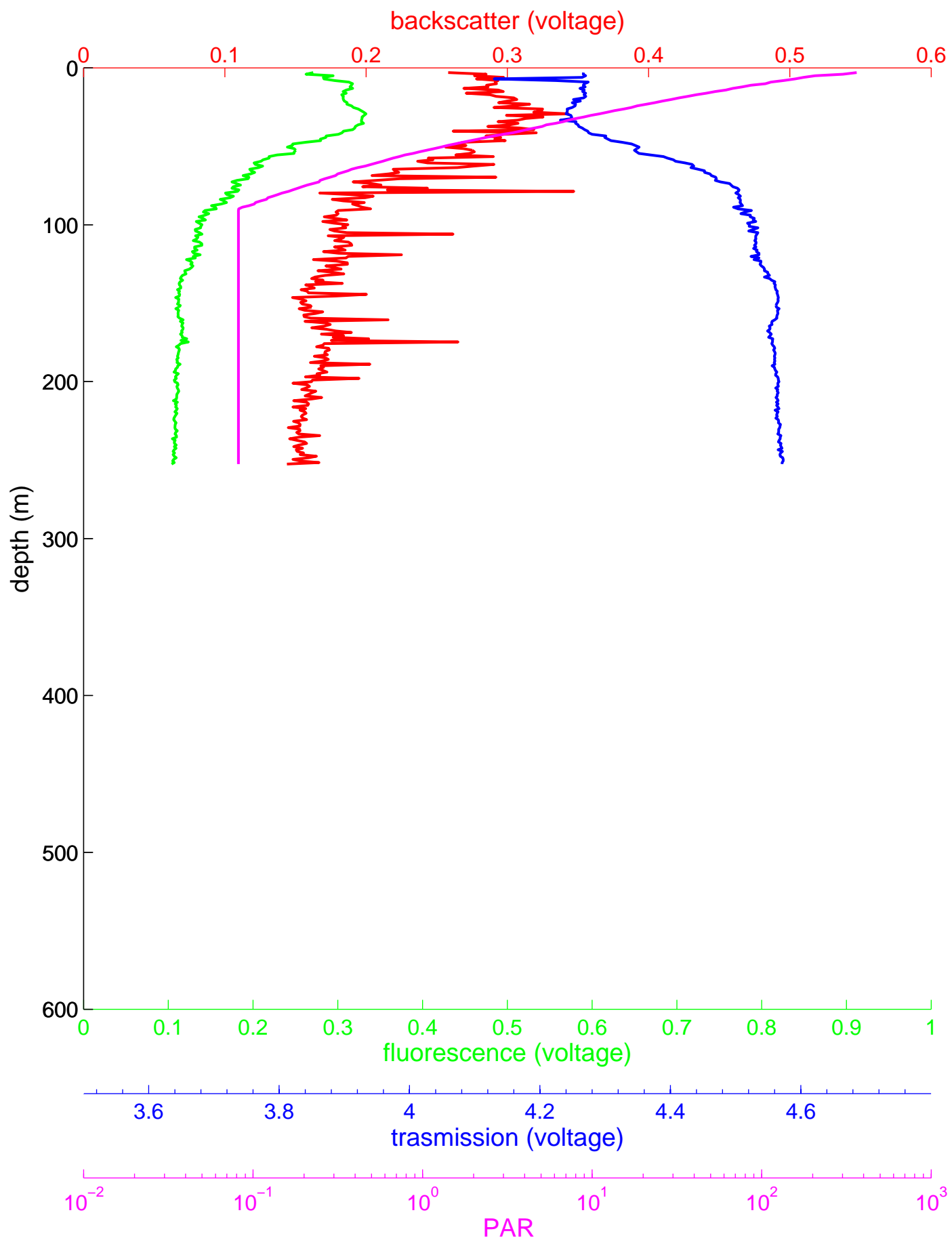
St: 123a Cast: 113 19-May-2008 04:46:43



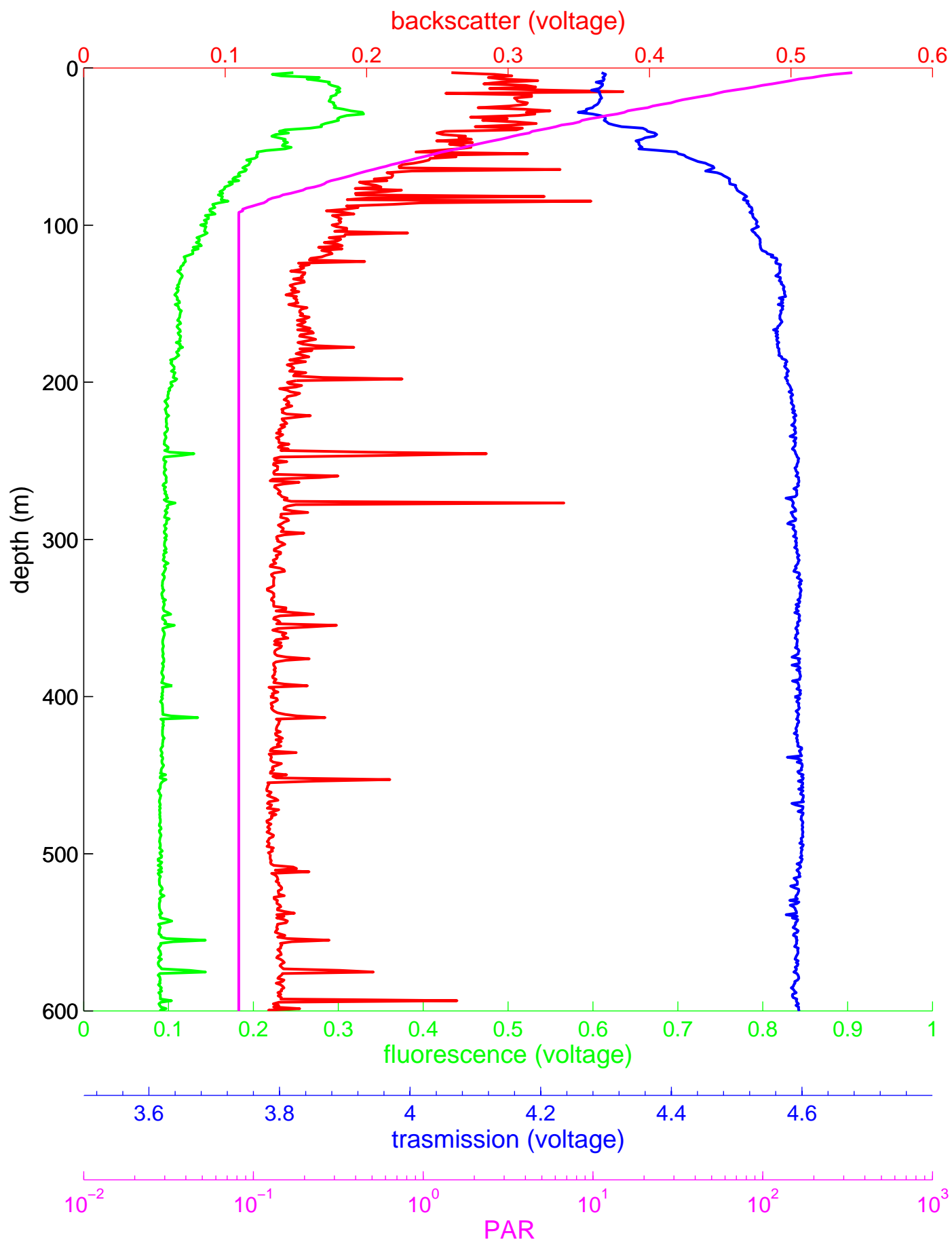
St: 124a Cast: 114 19-May-2008 05:48:17



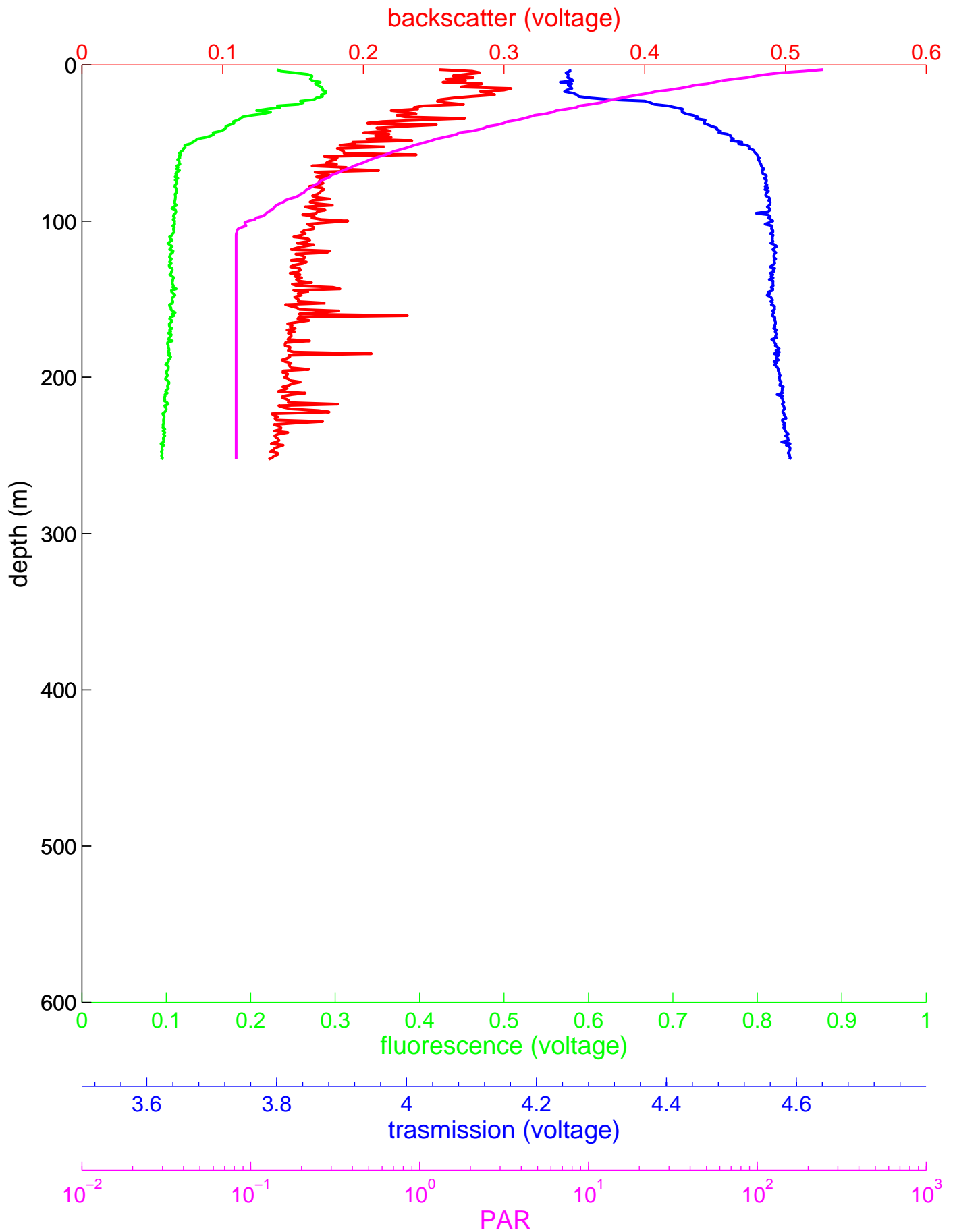
St: 125a Cast: 115 19-May-2008 07:20:16



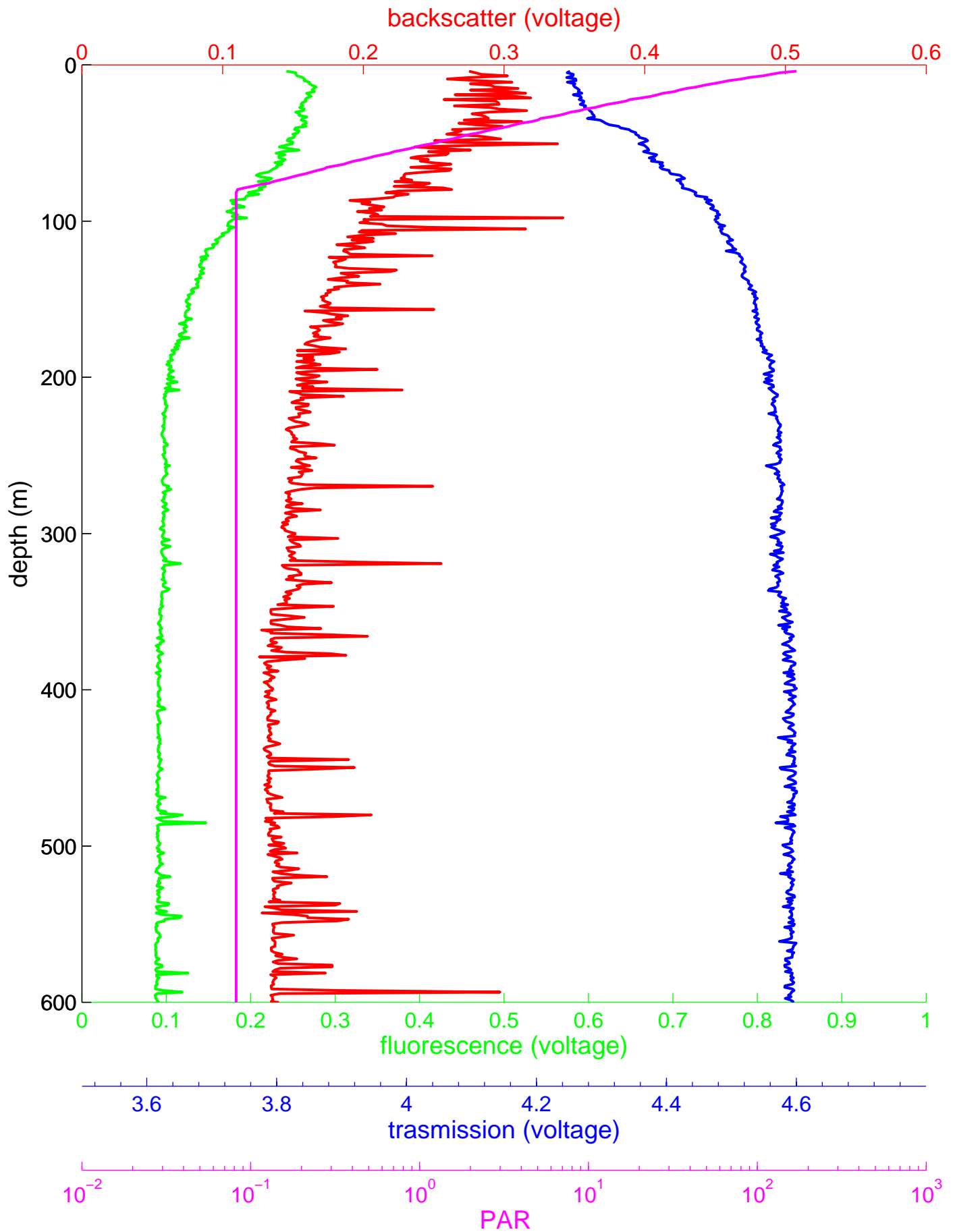
St: 126a Cast: 116 19-May-2008 08:26:34



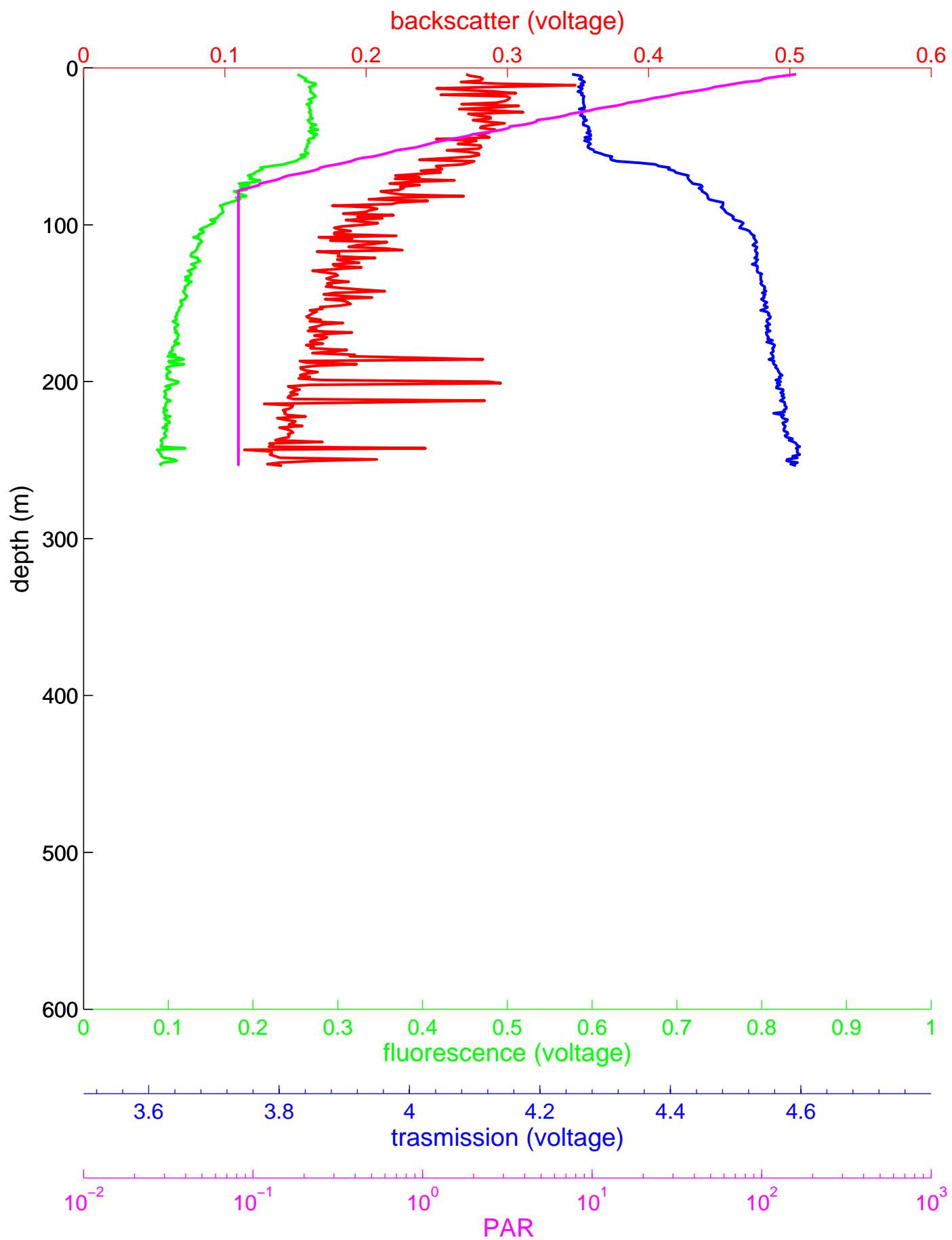
St: 127a Cast: 117 19-May-2008 10:04:26



St: 128a Cast: 118 19-May-2008 11:24:51

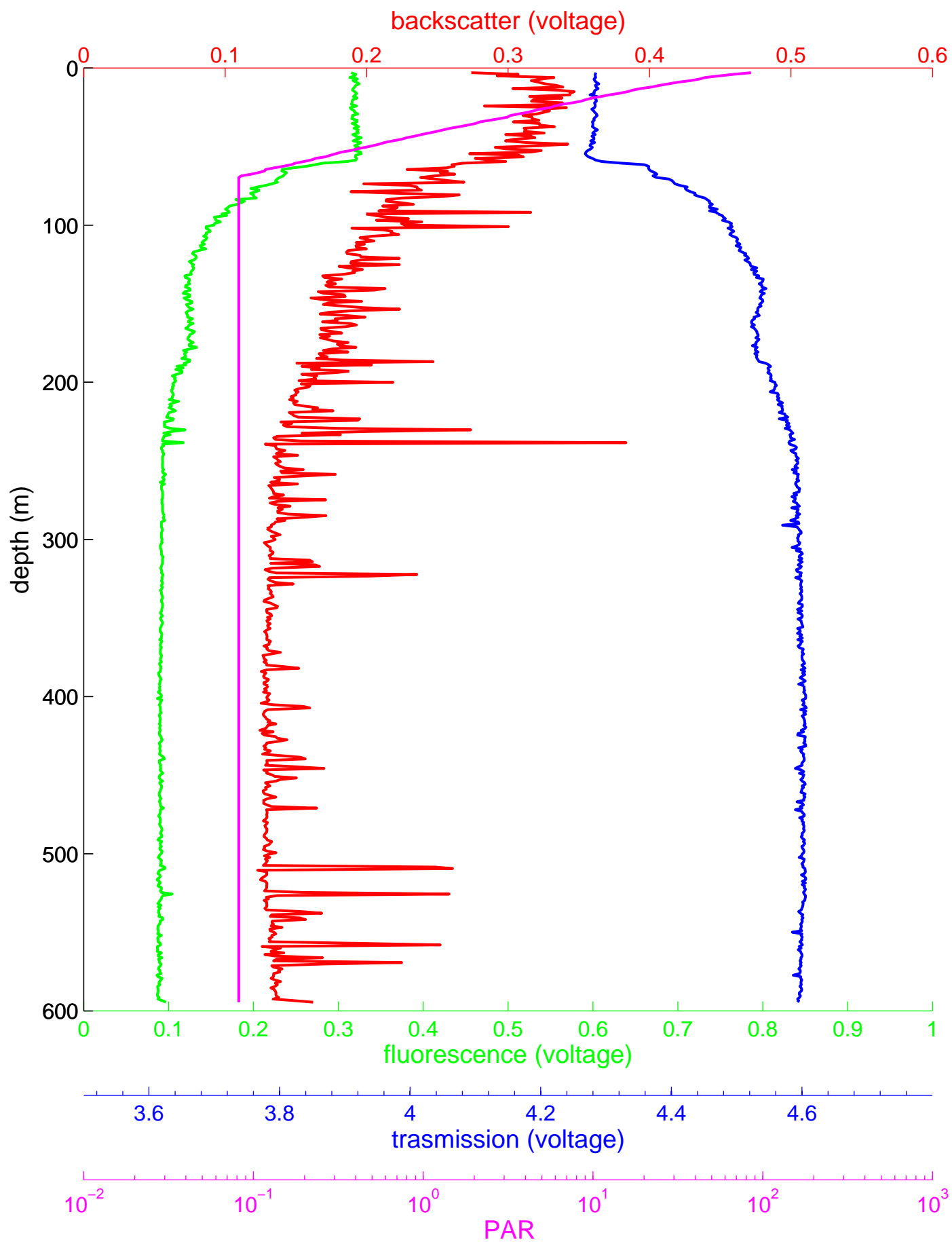


St: 129a Cast: 119 19-May-2008 16:15:53

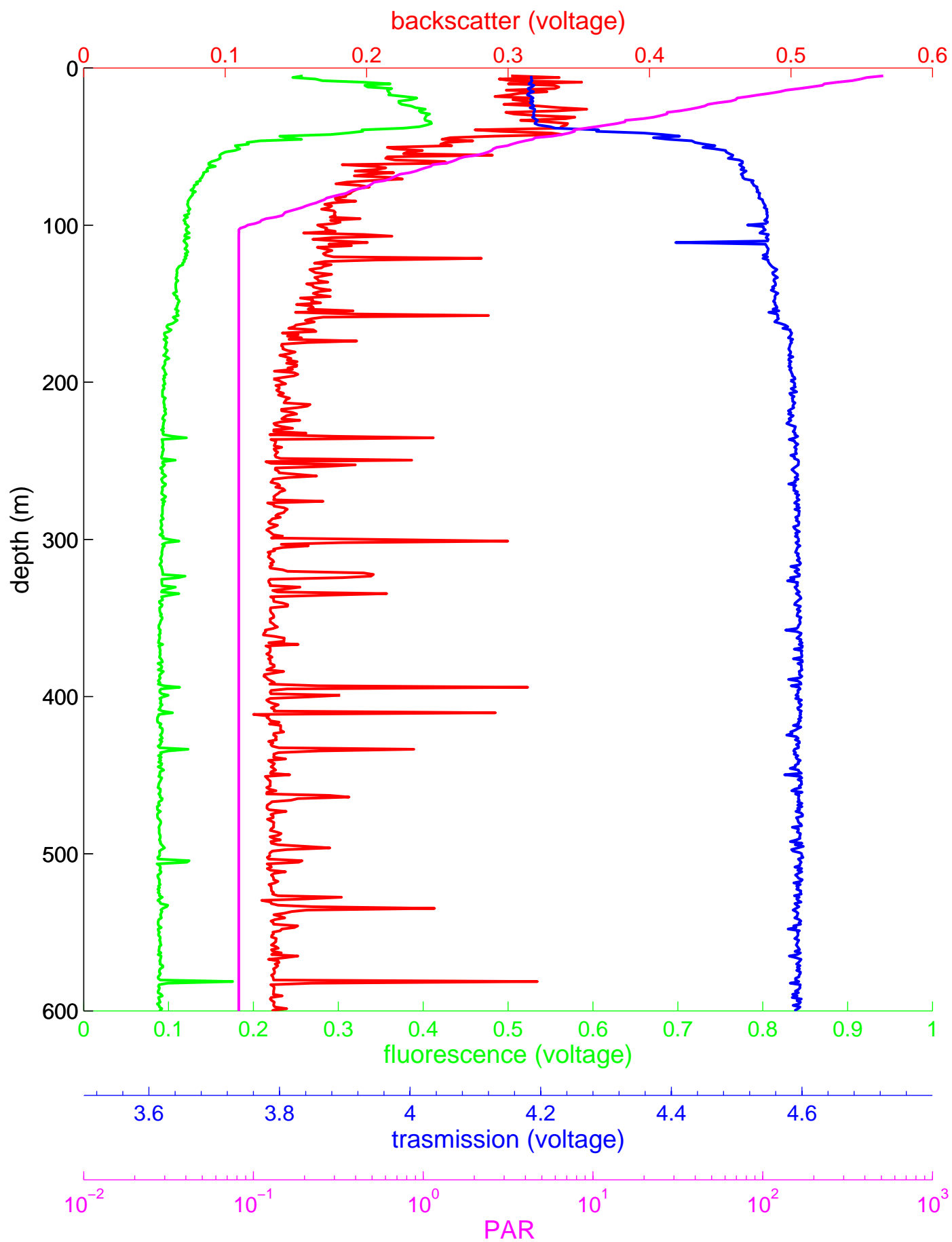




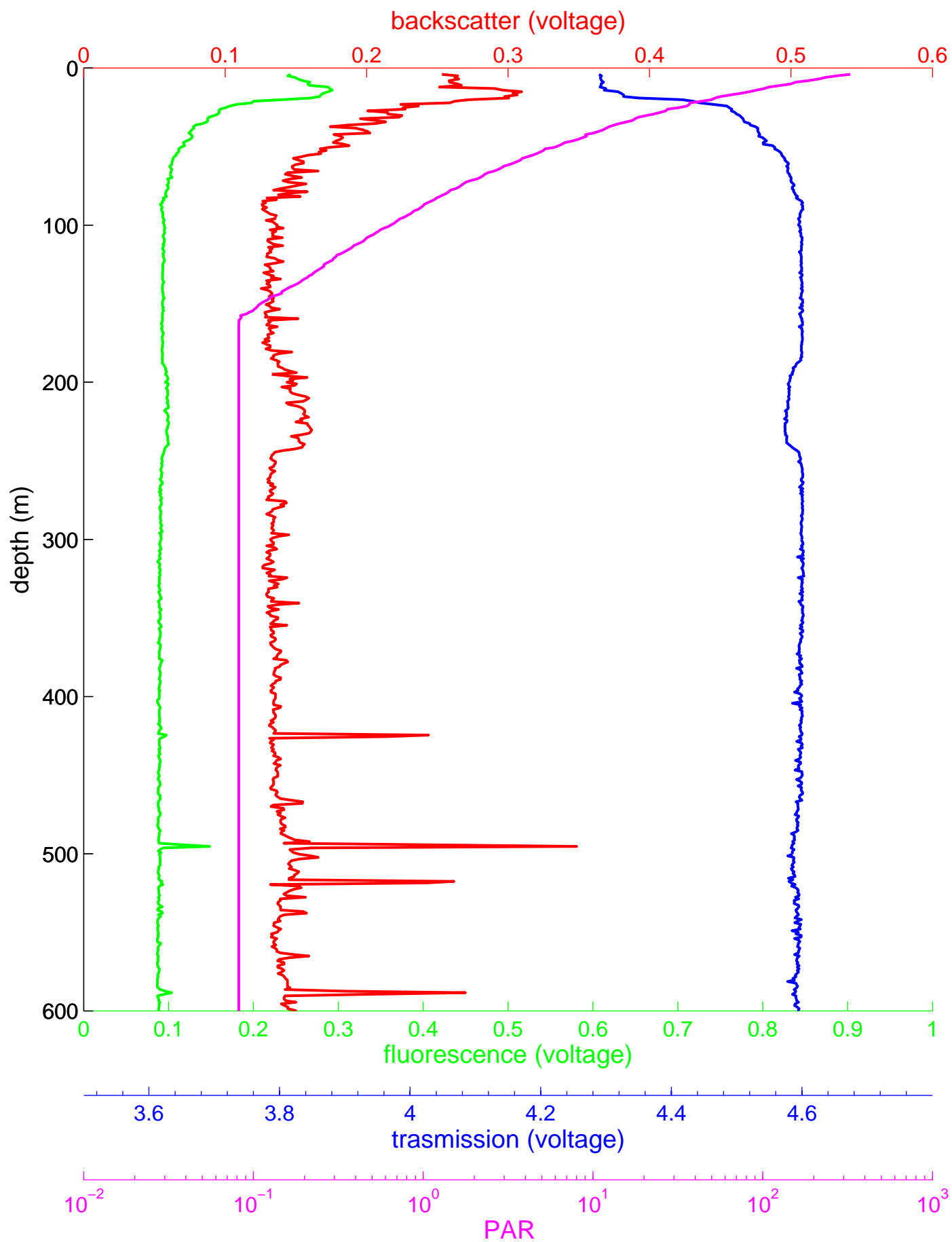
St: 130a Cast: 120 19-May-2008 17:40:15



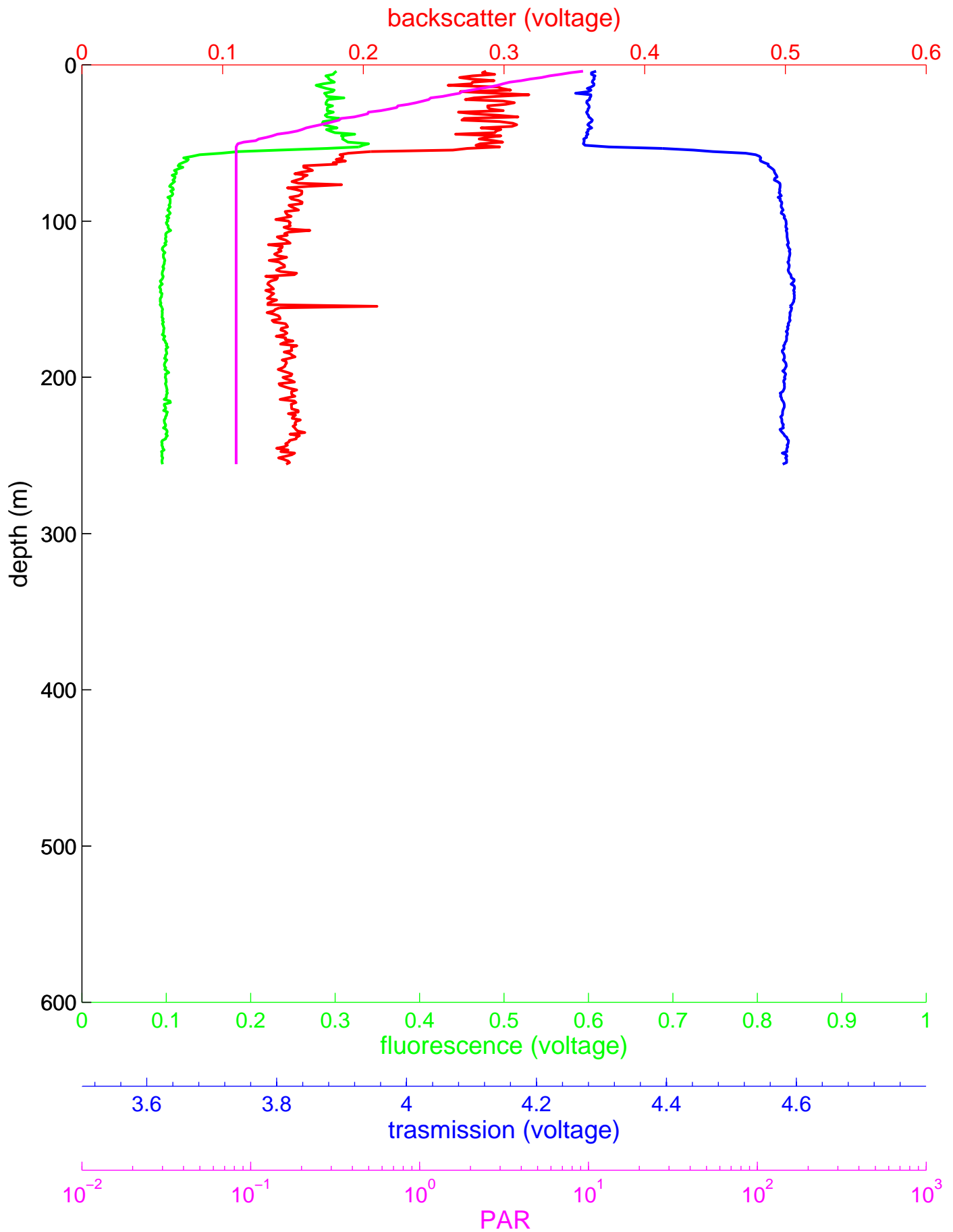
St: 141a Cast: 121 20-May-2008 13:03:34



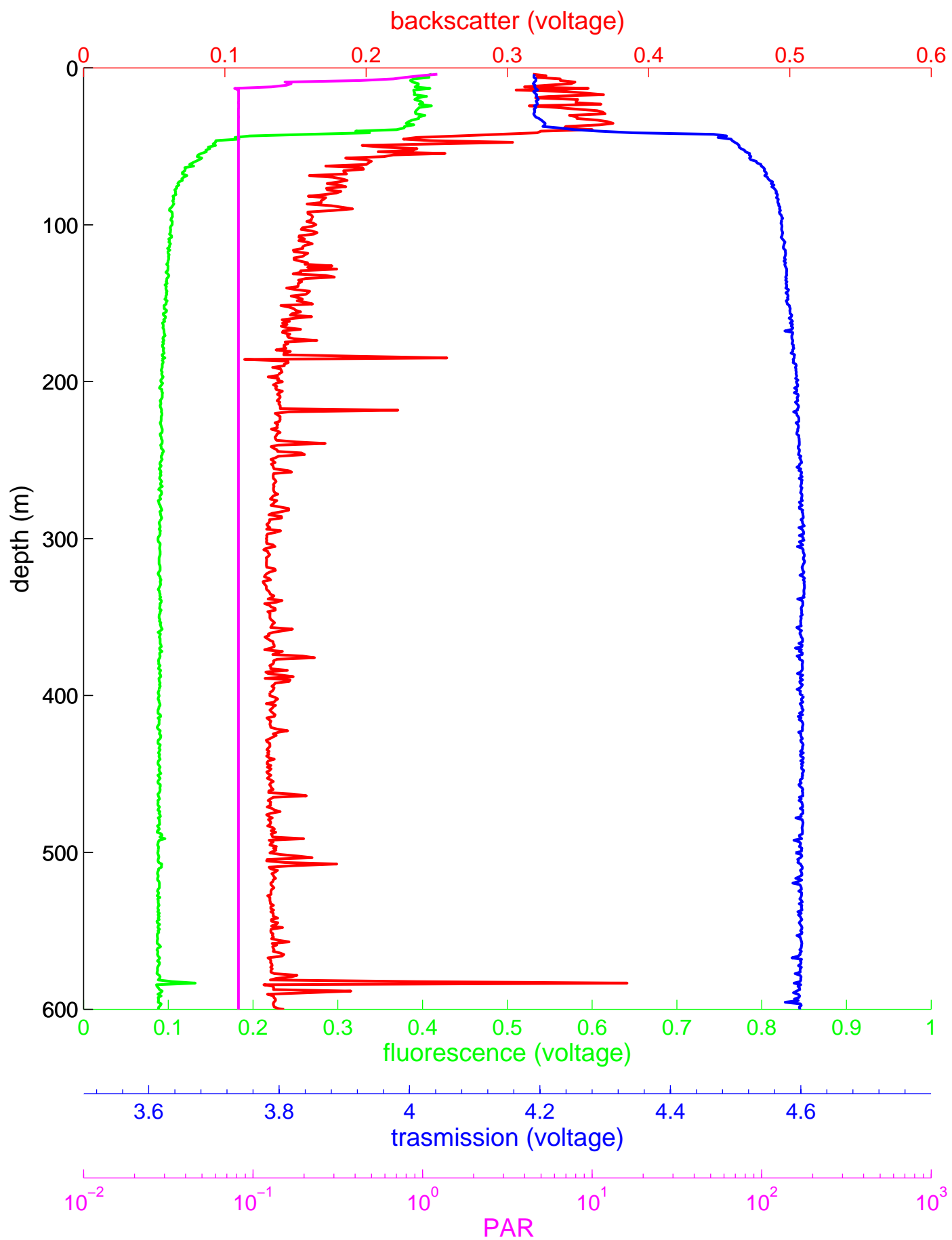
St: 142a Cast: 122 20-May-2008 17:27:51



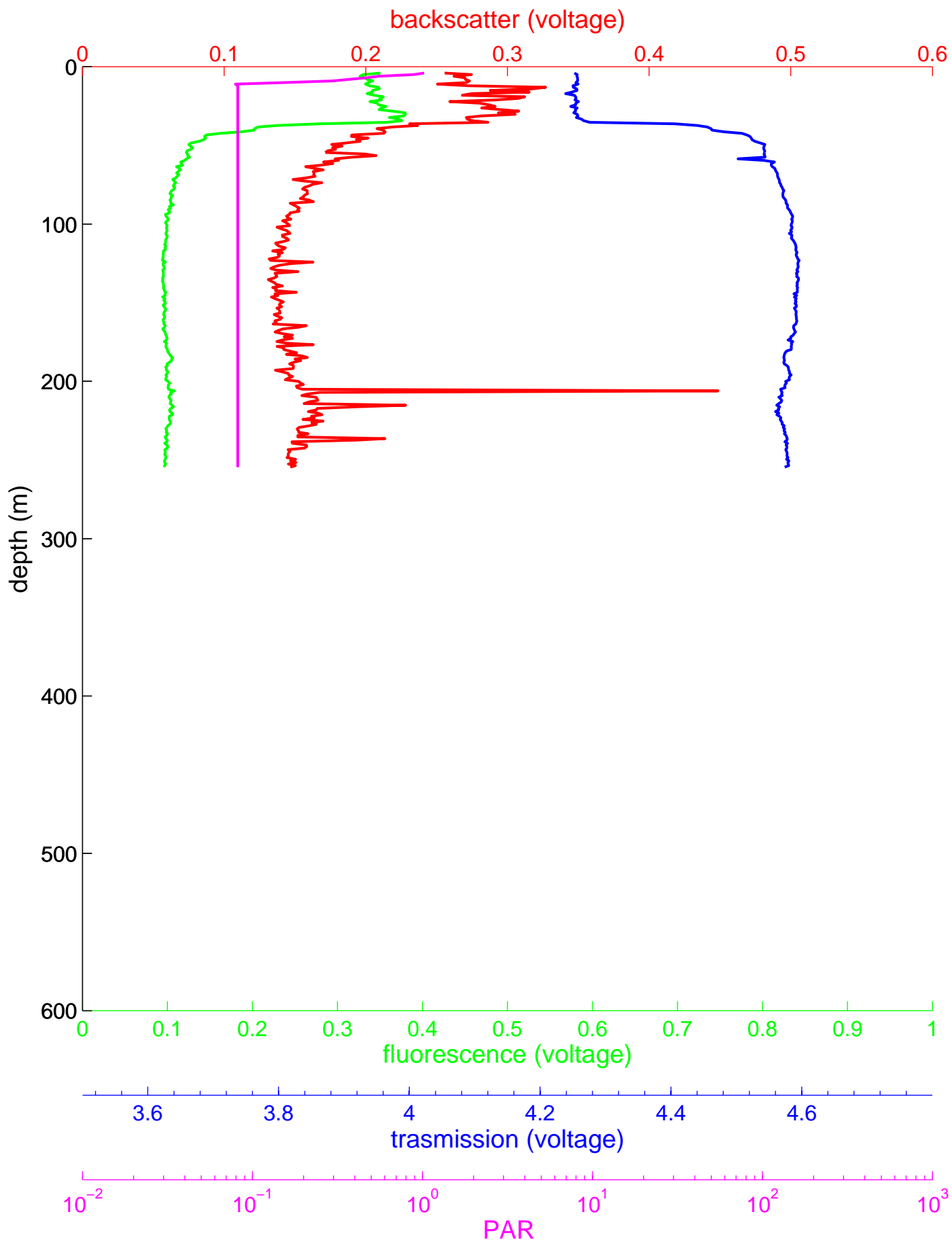
St: 143a Cast: 123 20-May-2008 21:56:02



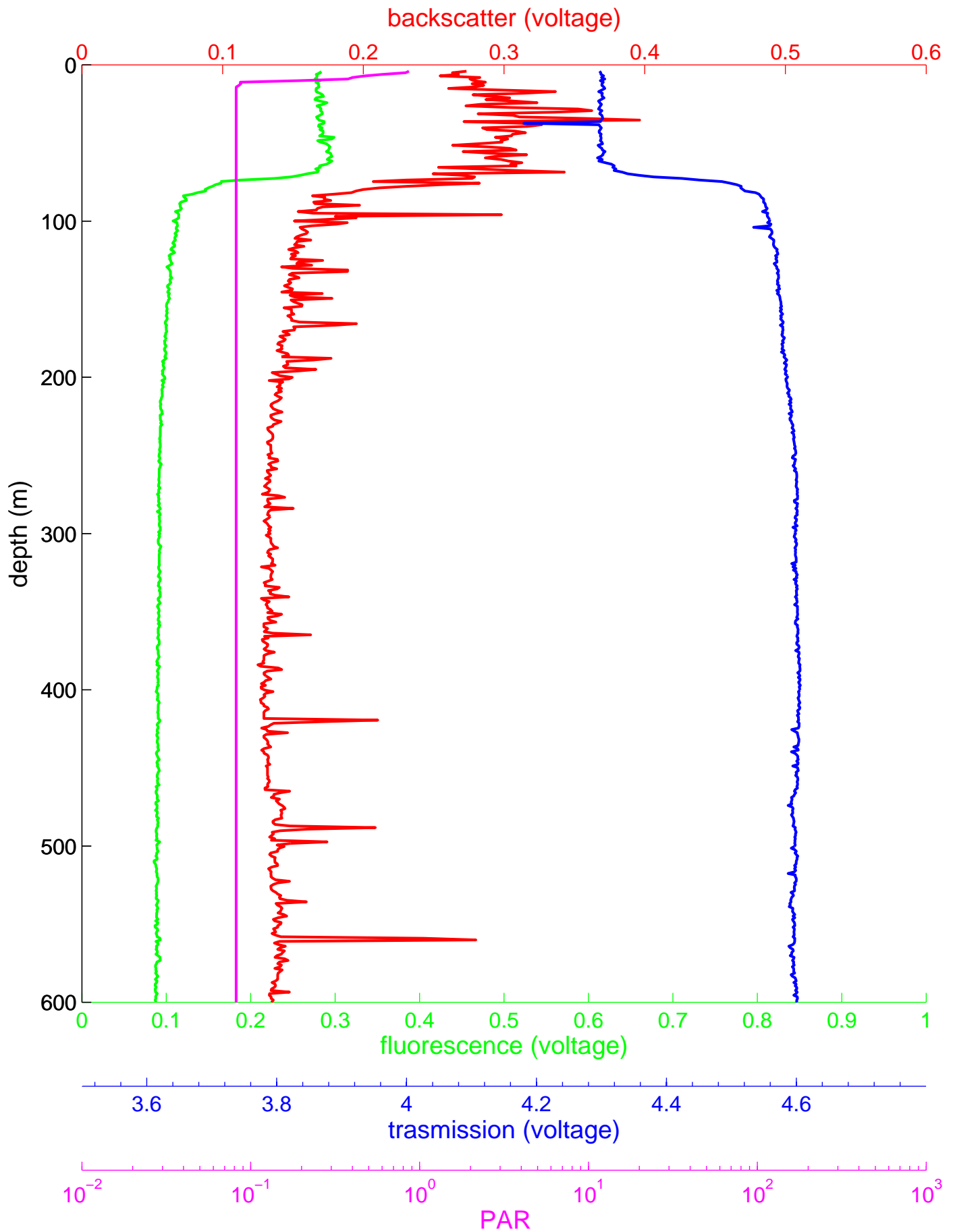
St: 144a Cast: 124 20-May-2008 23:20:28



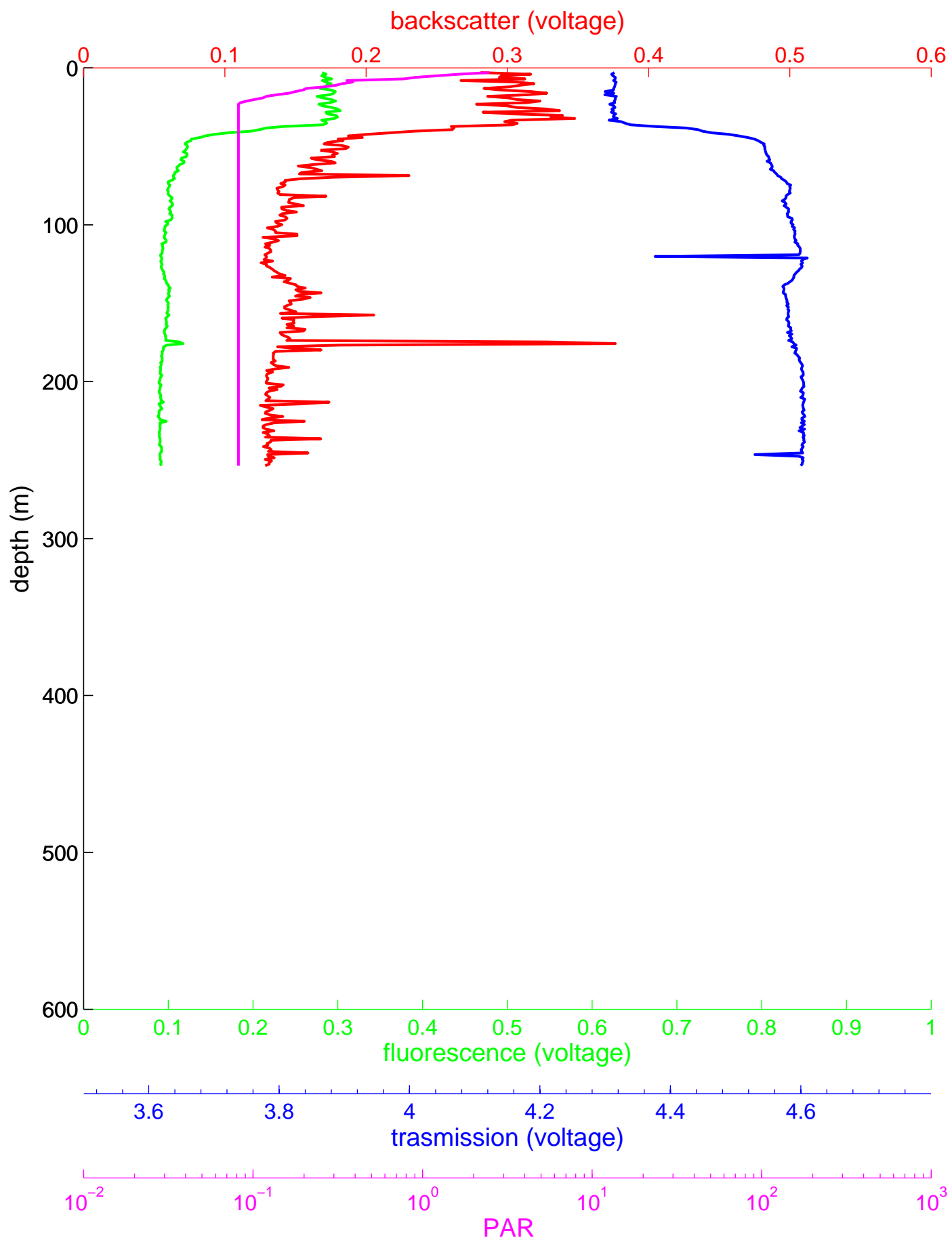
St: 145a Cast: 125 21-May-2008 01:56:33



St: 146a Cast: 126 21-May-2008 03:15:55

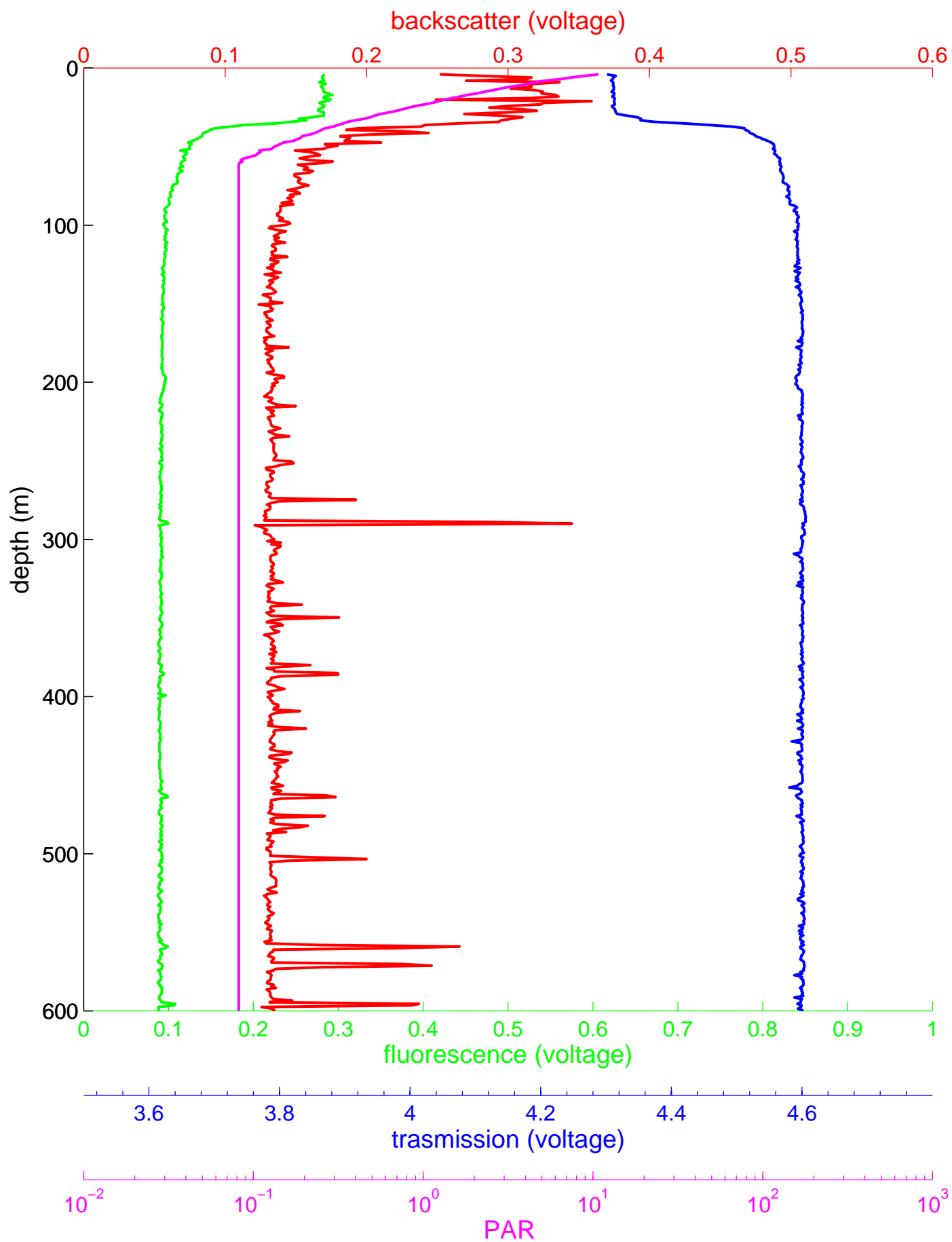


St: 147a Cast: 127 21-May-2008 04:30:25

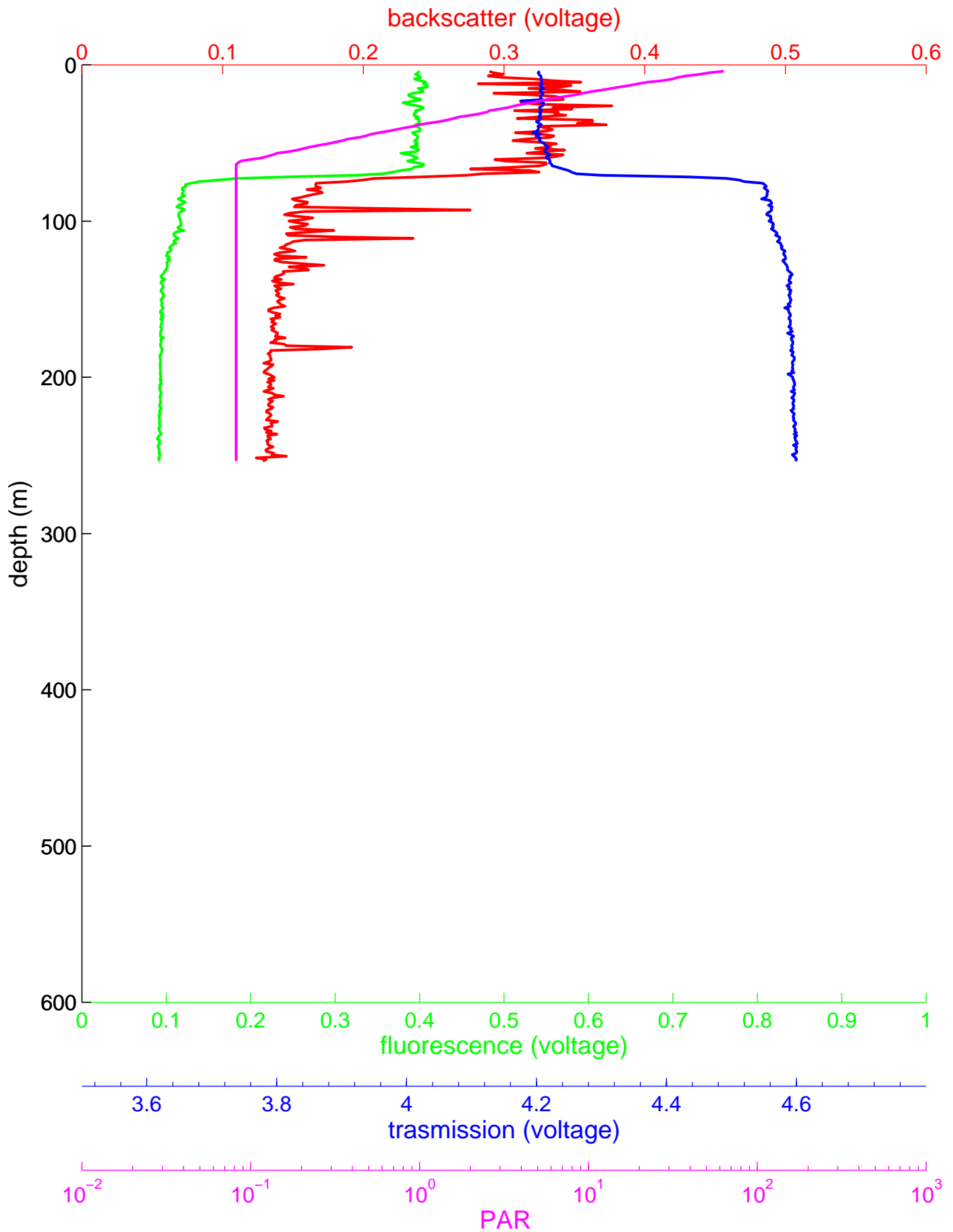




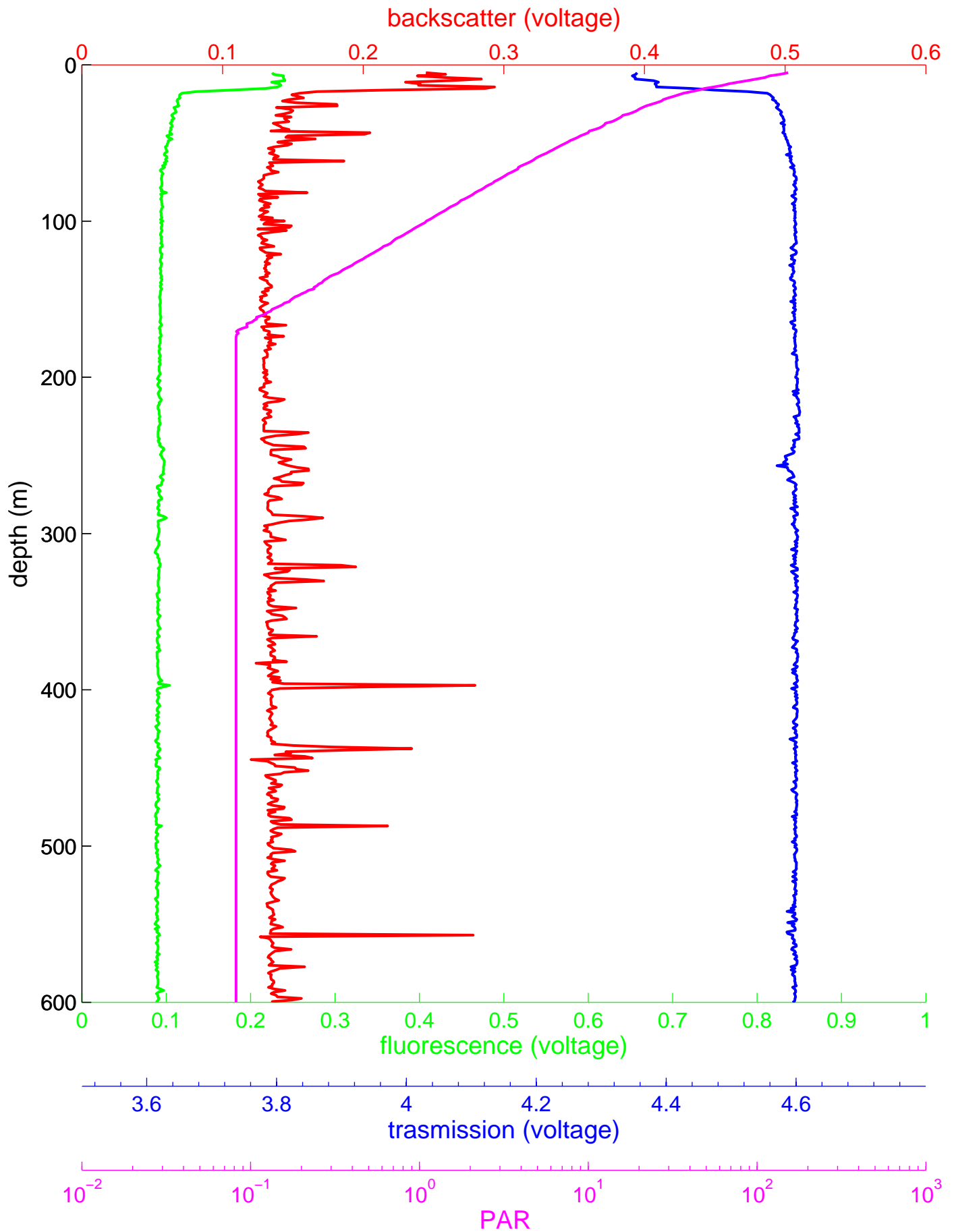
St: 148a Cast: 128 21-May-2008 05:36:00



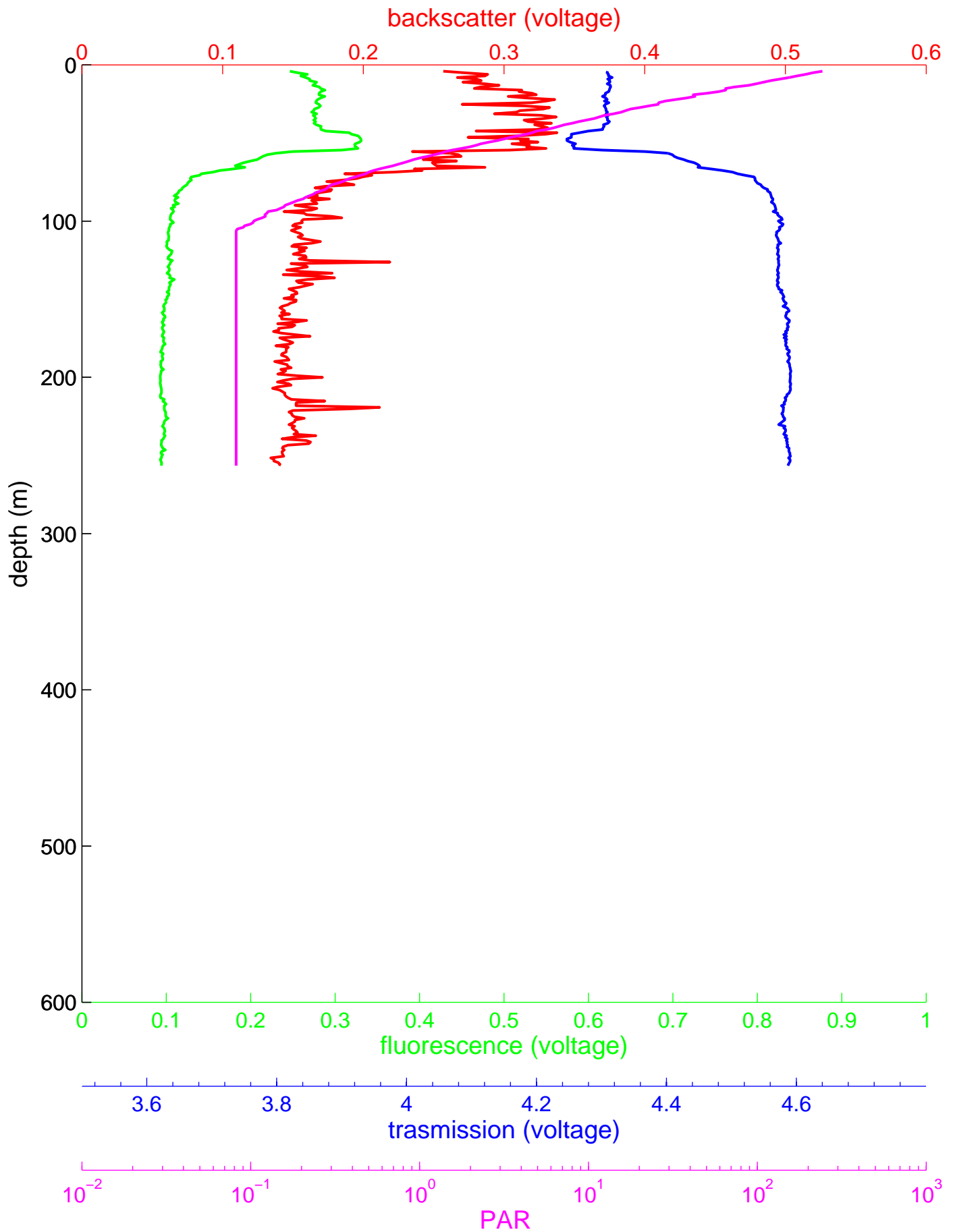
St: 148a Cast: 129 21-May-2008 06:57:34



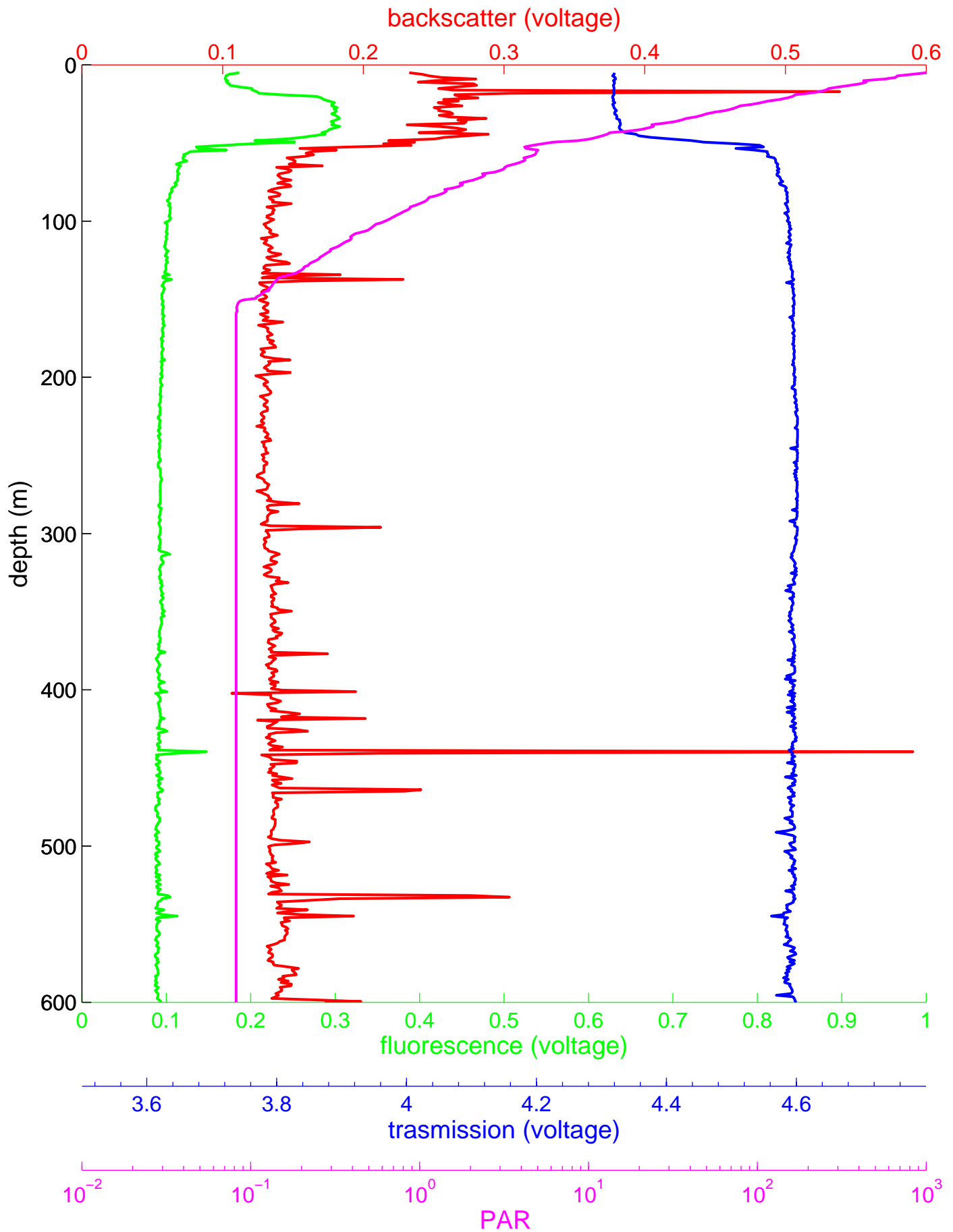
St: 150a Cast: 130 21-May-2008 08:09:16



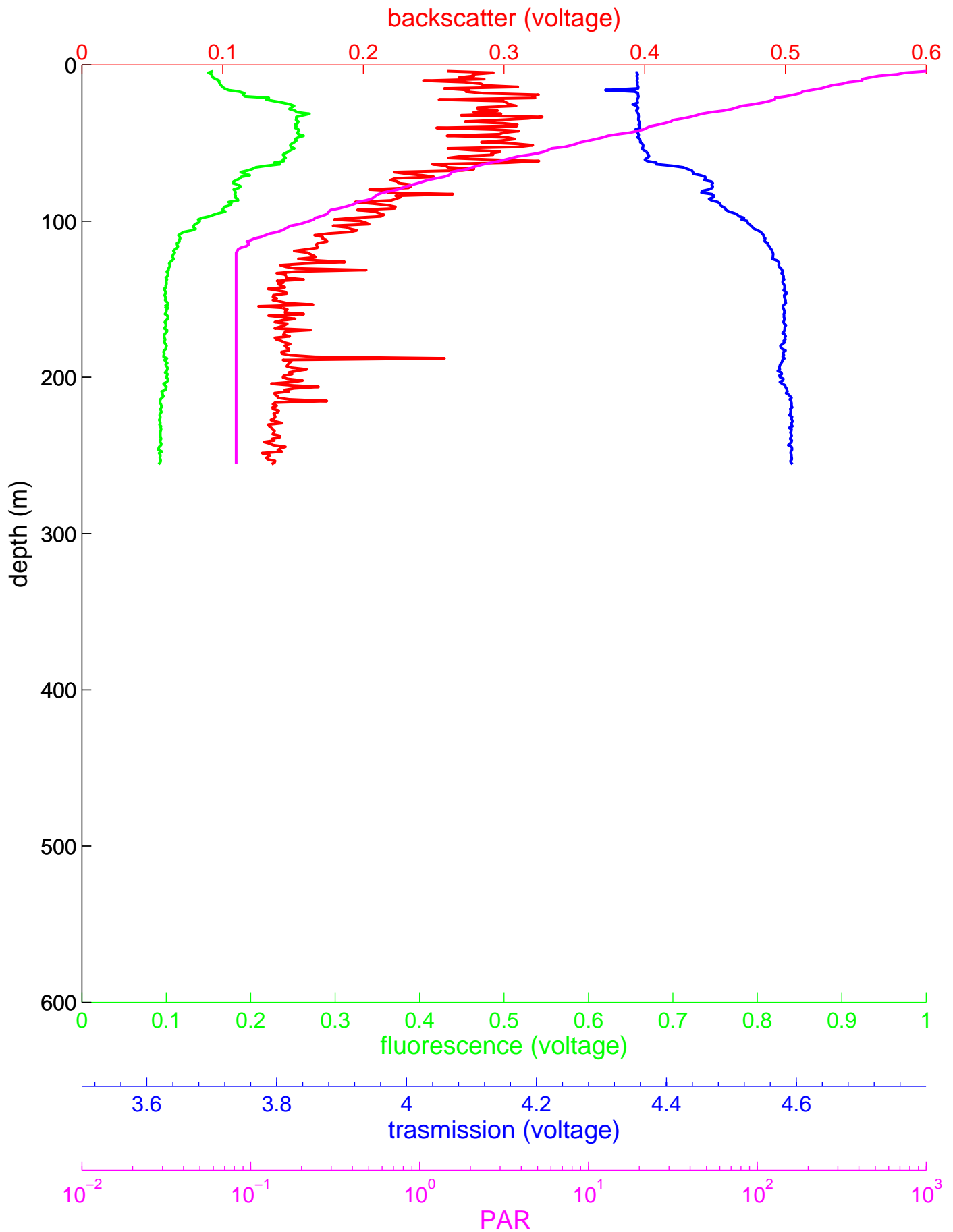
St: 151a Cast: 131 21-May-2008 09:47:54



St: 152a Cast: 132 21-May-2008 11:26:42



St: 153a Cast: 133 21-May-2008 12:58:00



St: 154a Cast: 134 21-May-2008 14:10:14

