

Rosette sampling log mission 2005-04

Event 012
Station B53
CTD Filename 200504-012

Date (UTC) 2005-08-07
UTC/Local time 0132 / 1932
CTD Operator JE

Vessel CCGS Louis S. St-Laurent
Water depth (m) 150 (1463 m/s soundspeed, w/o +9 hull correction)
Position (N, W) 71°23.87'N, 151°59.77'W
Start / End Pressure -0.1 / -0.1

Ice (tenths) 9
Start Scan 1010.7600

Samp #	Raw Nom Sal	Raw Nom Depth	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #		C-13	FW-Alkalinity	FW-Aik DUP	DIC	DIC dup	TOC	TOC dup	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	I-129	Cs-137			
137		Bot 15	1	V V					✓	2007					✓						✓		✓		✓	✓	✓	✓	✓	✓	✓	✓						
138	33.2	138	2	V V					✓	2014	2015				✓						✓		✓		✓	✓	✓	✓	✓	✓	✓	✓						
139	33.1	127	3	V X		✓	7676	7635	✓	2017					✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
140	32.9	100	4	V V					✓	2025					✓									✓	✓	✓	✓	✓	✓	✓	✓	✓						
141	32.75	83	5	V V		✓	9830		✓	2027					✓									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
142	32.6	50	6	V V					✓	2032					✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
143	32.2	48	7	V V					✓	2033					✓						✓				✓	✓	✓	✓	✓	✓	✓	✓						
144	CHIMAX	30	8	X V		✓	7627		✓	2044					✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
145		25	9	V V					✓	2047	2049				✓									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
146		5	10	V V		✓	7637		✓	2051			✓		✓						✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
147			11						✓				✓		✓						✓		✓		✓	✓	✓	✓	✓	✓	✓	✓						
			12																																			
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Comments: Surface Salinity: 30.6 28.8 comm error on tripping bottles 4, 5, 6 @ 100, 83, 50 m
Difficult to find a clear spot in broken ice floes.

Rosette sampling log mission 2005-04

Event 10
Station CB-18 CB28A
CTD Filename 2005-04-0010

Date (UTC) 05.08.2005
UTC/Local time 17:36 / 1136
CTD Operator HM/ WJSE

Vessel CCGS Louis S. St-Laurent
Water depth (m) 2079
Position (N, W) 70°53.88 138°53.88
Start / End Pressure -0.11 / -0.14
CTD Max + altimeter
(1463 m/s soundspeed, w/o +9 hull correction)

Ice (tenths) 1/10
Start Scan 6010

Samp #	Raw Nom Sal	Raw Nom Depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	C-13	FW-Alkalinity	FW-AIK DUP	DIC	DIC dup	TOC	TOC dup	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	I-129	Cs-137
113	2073	BOT	1	✓✓	✓✓	7475	7678	✓	2007									✓		✓					✓		✓						
114		1500	2	✓✓	✓	7383		✓✓	2014	2015											✓		✓	✓									
115		1000	3	✓✓	✓	7637			2017				✓																✓				
116		800	4	✓✓	✓	7350			2025																								
117		600	5	✓✓	✓	7634			2027	2032																							
118		500	6	✓✓	✓	7353			2033										✓														
119		450	7	✓X	✓	7417			2089																✓		✓						
120	414	343	8	✓X	✓	9822			2044															✓		✓							
121	277	346	9	✓✓	✓	9825			2047													✓	✓	✓	✓	✓	✓						
122	230	344	10	✓✓	✓	7504			2049														✓	✓	✓	✓	✓						
123	206	342	11	✓✓	✓	7201		✓	2051													✓	✓	✓	✓	✓	✓						
124	195	34	12	✓✓	✓	7629			2056														✓	✓	✓	✓	✓						
125	188	33.8	13	✓✓	✓	7677	9830		2057														✓	✓	✓	✓	✓						
126	174	33.6	14	✓✓	✓	7435		✓✓	2059	2060													✓	✓	✓	✓	✓						
127	160	33.4	15	✓✓	✓	7552			2061														✓	✓	✓	✓	✓						
128	148	33.2	16	✓✓	✓	7635			2063										✓		✓		✓	✓	✓	✓	✓						
129	135	33.1	17	✓✓	✓	7488			2064													✓	✓	✓	✓	✓	✓						
130	113	32.9	18	✓✓	✓	7166		✓	2068													✓	✓	✓	✓	✓	✓	✓					
131	90	32.75	19	✓✓	✓	7627			2069													✓	✓	✓	✓	✓	✓						
132	75	32.5	20	✓✓	✓	7357			2073				✓									✓	✓	✓	✓	✓	✓						
133	60	32.2	21	✓✓	✓	7509		✓✓	2074	2084												✓	✓	✓	✓	✓	✓						
134	40	CHL MAX	22	✓✓	✓	7433			2085										✓		✓	✓	✓	✓	✓	✓	✓						
135		25	23	✓✓	✓	7624			2086													✓	✓	✓	✓	✓	✓						
136		5	24	✓✓	✓	7676		✓	2087		✓	✓										✓	✓	✓	✓	✓	✓						

Comments :

stop at 900m to switch winch speeds on up&down casts
Sam Duplicate CFC #113 S#7678 was drawn after DO.
5m salinity 22.3

Drip on bottle 8 may be spigot O-ring.
In CTD header station name should be CB28A
Note non-standard file name -0010 instead of -010

Rosette sampling log mission 2005-04

Event 009
Station CB-2 CB28B
CTD Filename 200504_009

Date (UTC) 05.08.05
UTC/Local time 1408 / 0808
CTD Operator WW

Vessel CCGS Louis S. St-Laurent
Water depth (m) 871
Position (N, W) 70°35.10' 138°58.8'
Start / End Pressure -0.08 -0.14

Ice (tenths) 110
Start Scan 7300

Samp #	Raw Nom Sal	Raw Nom Depth	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #			C-13	FW-Alkalinity	FW-Aik DUP	DIC	DIC dup	TOC	TOC dup	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	I-129	Cs-137		
92		Bot	1	✓✓		✓	7433	7624	✓	2091					✓	✓						✓		✓	✓													
93		660	2	✓✓		1	7332		✓	2096	2093											✓						✓	✓	✓	✓							
94		500	3	✓✓						2094														✓		✓												
95		450	4	✓✓			7509			2096																		X		X								
96	34.8	422	5	✓✓			9822			2098																		X		X								
97	34.6	280	6	✓✓						2099					✓											✓	✓		✓		✓							
98	34.4	249	7	✓✓			7625			3003												✓								X								
99	34.2	230	8	✓✓		✓				3004																✓	✓		✓		✓							
100	34	222	9	✓✓			7488	7166		3006																				X								
101	33.8	211	10	✓✓					✓	3007	3009																			X								
102	33.6	200	11	✓✓			7676			3012																✓		✓		✓								
103	33.4	185	12							3016																				X								
104	33.2	170	13							3018																				X								
105	33.1	158	14	✓✓			7627			3019																✓	✓✓		✓	✓	✓			X				
106	32.9	128	15	✓✓						3024																✓	✓✓		✓		✓	✓						
107	32.75	108	16	✓✓						3028																				X				X				
108	32.5	80	17	✓✓						3033						✓										✓	✓✓		✓		✓			X	X			
109	32.2	73	18	✓✓			7357		✓	3034	3038																		✓		✓			X				
110	CHNMax	60	19	✓✓						3039														✓	✓	✓✓		✓		✓		✓		X	X			
111	25	6	20	✓✓						3040												✓			✓	✓✓		✓		✓		✓		X				
112	5		21	✓✓		±	7635		✓	3043	3047			✓	✓						✓		✓		✓	✓✓		✓		✓			X					
			22																																			
			23																																			
			24																																			

Comments : In CTD Header file Station name should be CB28B
5m salinity 22.7

Rosette sampling log mission 2005-04

Event 8
Station CABOS
CTD Filename 200504-008.ohet

Date (UTC) 04 08 05
UTC/Local time 10:28
CTD Operator VW

Vessel CCGS Louis S. St-Laurent
Water depth (m) 1120 (1463 m/s soundspeed, w/o +9 hull correction)
Position (N, W) 79°45.80' 131°51.55'
Start / End Pressure -0.18 -0.20

Ice (tenths) 3110
Start Scan 7350

Samp #	Raw Nom Sal	Raw Nom Depth	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK # <i>CFC</i>	OXY DUP FLASK #		C-13	FW-Alkalinity	FW-AIK DUP	DIC	DIC dup	TOC	TOC dup	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	I-129	Cs-137	
74		1000	1	✓																✓																
75		1000	2	✓			7201													✓																
76		1000	3	✓			7635	7629	9	9821										✓	✓															
77		1250	4	✓																✓																
78		250	5	✓																✓																
79		250	6	✓			9830	7677		7166										✓	✓															
80		197	7	✓																✓																
81		197	8	✓																✓																
82		197	9	✓																✓	✓															
83		149	10	✓																✓																
84		149	11	✓																✓																
85		149	12	✓																✓	✓															
86		96	13	✓																✓																
87		96	14	✓																✓																
88		96	15	✓																✓	✓															
89		30	16	✓																✓																
90		30	17	✓																✓																
91		30	18	✓																✓	✓															
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Comments : 28.05

Sampling test, 3 Niskins per depth : 30min, 2min, 5min waits
0.5 + 1.5 + 3

Rosette sampling log mission 2005-04

Event 7
 Station CA1305
 CTD Filename 200504_007.dwt

Date (UTC) 04.08.03
 UTC/Local time 09:37
 CTD Operator NW

Vessel CCGS Louis S. St-Laurent
 Water depth (m) 1118 (1463 m/s soundspeed, w/o +9 hull correction)
 Position (N, W) 71°46.25'N 131°52.01'W
 Start / End Pressure -0.05 / -0.15

Ice (tenths) 3/10
 Start Scan 8300

Samp #	Raw Nom Sal	Raw Nom Depth	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #		C-13	FW-Alkalinity	FW-AIK DUP	DIC	DIC dup	TOC	TOC dup	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	I-129	Cs-137	
69		250	1																		✓															
70		197	2																		✓	✓														
71		148	3																		✓															
72		96.6	4																		✓															
73		50	5																		✓															
74			6																																	
75			7																																	
76			8																																	
77			9																																	
78			10																																	
79			11																																	
80			12																																	
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Comments :

Botle Flushing test : stop for 30sec, up 1m, down 2m, up 1m, wait 30 sec, trip.

Rosette sampling log mission 2005-04

Event 6
Station CABOS
CTD Filename 200504-006

Date (UTC) 2005-08-04
UTC/Local time 0455/1155
CTD Operator JE/NW

Vessel CCGS Louis S. St-Laurent
Water depth (m) 1098 (1463 m/s soundspeed, w/o +9 hull correction)
Position (N, W) 131 49.07W, 71 46.11N
Start / End Pressure -0.1 / -0.1

Ice (tenths) 1
Start Scan 89200

Samp #	Raw Nom Sal	Raw Nom Depth	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #		C-13	FW-Alkalinity	FW-AIK DUP	DIC	DIC dup	DOC	DOC dup	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa	TOTAL CHLa 0.70	TOTAL CHLa 0.70 DUP	CDOM	1-129	CS-137			
46		Bot	1	✓✓		✓			✓	2007	2104									✓		✓																	
47		1000	2	✓✓						2015				✓	✓								✓✓				✓	✓	✓	✓									
48		800	3	✓✓				✓		2017											✓																		
49		600	4	✓✓						2025																													
50		500	5	✓✓						2027																													
51		450	6	✓✓						2032																													
52	34.8	377	7	✓✓					✓	2033	2035																												
53	34.6	250	8	✓✓						2044				✓										✓			✓		✓										
54	34.4	214	9	✓✓						2047											✓						✓		✓										
55	34.2	197	10	✓✓						2049													✓	✓			✓		✓										
56	34	182	11	✓✓						2051																													
57	33.8	170	12	✓✓						2056																													
58	33.6	160	13	✓✓						2057																	✓	✓	✓										
59	33.4	149	14	✓✓						2059																													
60	33.2	135	15	✓✓						2060					✓																								
61	33.1	128	16	✓✓						2061													✓	✓			✓		✓										
62	32.9	110	17	✓✓						2063														✓			✓		✓										
63	32.75	96	18	✓✓						2064														✓			✓		✓										
64	32.5	79/dil	19	✓✓						2068														✓			✓		✓										
65	32.2	60	20	✓✓					✓	2069	2073																✓	✓	✓										
5066	chl max	80-50	21	✓✓						2074											✓			✓			✓	✓	✓										
67	25	25	22	✓✓						2084														✓			✓	✓	✓										
68	5	5	23	✓✓		✓			✓	2085			✓	✓						✓	✓	✓	✓	✓			✓	✓	✓										
69	X		24																																				

Comments: Stopped 2mi away from CABOS mooring to avoid snagging it
chl Max @ 80m, So took bottle @ 50m anyway.

1092

46

Rosette sampling log mission 2005-04

Event 5
Station AG-5
CTD Filename 200504-065.dat

Date (UTC) 3/14/05
UTC/Local time 11:47/18:47
CTD Operator SZ/WW

Vessel CCGS Louis S. St-Laurent
Water depth (m) 641 (1463 m/s soundspeed, w/o +9 hull correction)
Position (N, W) 70 33.10 122 54.26
Start / End Pressure 1 - 0.1

Ice (tenths) 1/10
Start Scan 8100

Samp #	Raw Nom Press /Sal	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #		C-13	FW-Alkalinity	FW-AIK DUP	DIC	DIC dup	TOC	TOC dup	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	129	CS-137		
25	bot	1	✓	✓				✓	3157	✓3159									✓		✓															
26	600	2	✓	✓				✓	3160										✓	✓	✓	✓														
27	500	3	✓	✓				✓	3161	✓3164									✓		✓															
28	450	4	✓	✓				✓	3166										✓		✓															
29	34.8/	5	✓	✓				✓	3171										✓		✓															
30	34.6/	6	✓	✓				✓	3174										✓		✓															
31	34.4/	7	✓	✓				✓	3177				✓						✓	✓	✓	✓	✓			✓		✓								
32	34.2/	8	✓	✓				✓	3178				✓						✓		✓		✓			✓		✓								
33	34/	9	✓	✓				✓	3179				✓						✓		✓		✓			✓		✓								
34	33.8/	10	✓	✓				✓	3180				✓						✓		✓		✓			✓		✓								
35	33.6/	11	✓	✓				✓	3181				✓						✓		✓		✓			✓		✓								
36	33.4/	12	✓	✓				✓	3182				✓						✓		✓		✓			✓		✓								
37	33.2/	13	✓	✓				✓	3183				✓						✓		✓		✓			✓	✓	✓	✓							
38	33.1/	14	✓	✓				✓	3186	✓3187			✓						✓	✓	✓	✓	✓			✓		✓								
39	32.9/	15	✓	✓				✓	3188				✓	✓					✓		✓		✓			✓		✓								
40	32.75/	16	✓	✓				✓	3189				✓						✓		✓		✓			✓		✓								
41	32.5	17	✓	✓				✓	3190				✓						✓		✓		✓			✓		✓								
42	32.2 33	18	✓	✓				✓	3191				✓						✓		✓		✓			✓		✓								
43	chl Max	19	✓	✓				✓	3192				✓						✓		✓		✓			✓		✓								
44	25	20	✓	✓				✓					✓						✓		✓		✓			✓		✓								
45	5	21	✓	✓				✓				✓	✓						✓		✓		✓			✓		✓								
		22																																		
		23																																		
		24																																		

Comments :

communication error @ bottle 9 on upcast. CTD stopped

620

642 638 m

→ .5 m/s
→ .3 m/s

47

1245

Rosette sampling log mission 2005-04

Event 4

Station 4

CTD Filename 200504-004

Date 31 Jul 05

Local time (Time Zone) 1610

UTC time (start) 2010

Vessel CCGS Louis S. St-Laurent

Water depth (m) 105 (1463 m/s soundspeed, w/o +9 hull correction)

Position (N, W) 68 42.0 103 46.2

CTD Operator SZ

Ice (tenths) 8

Start Scan

Cast #	Stn	Samp #	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	C-13	C-13 DUP	DIC	DIC dup	FW-Alkalinity	FW-AIK DUP	TOC	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	I-129	Cs-137	
4	4	19	100	1	✓																✓		✓		✓											
		20	75	2	✓																✓		✓		✓											
		21	42	3	✓																✓		✓		✓											
		22	25	4	✓																✓		✓		✓											
		23	10	5	✓																✓		✓		✓											
		24	1	6	✓																✓		✓		✓											
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Comments : near Cambridge Bay

Rosette sampling log mission 2005-04

Event3

Station3

CTD Filename200504-003

Date31 Jul 05

Local time (Time Zone)13 10

UTC time (start)1710

VesselCCGS Louis S. St-Laurent

Water depth (m)99

Position (N, W)68 42.37 102 45.78

CTD OperatorS2

(1463 m/s soundspeed, w/o +9 hull correction)

Ice (tenths)5

Start Scan

Cast #	Stn	Samp #	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #		C-13	C-13 DUP	DIC	DIC dup	FW-Alkalinity	FW-Aik DUP	TOC	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	I-129	Cs-137		
3	3	14	100	1	✓																✓	✓	✓	✓	✓													
		15	75	2	✓																	✓	✓	✓	✓	✓												
		16	50	3	✓																	✓	✓	✓	✓	✓												
		17	25	4	✓																	✓	✓	✓	✓	✓												
		18	2	5	✓																	✓	✓	✓	✓	✓												
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Comments :

Queen Maud Gulf

Rosette sampling log mission 2005-04

Event2

Station2

CTD Filename200504-002

Date31 Jul 05

Local time (Time Zone)925

UTC time (start)1325

VesselCCGS Louis S. St-Laurent

Water depth (m)31

Position (N, W)68 52.4 101 26.61

CTD OperatorSZ

(1463 m/s soundspeed, w/o +9 hull correction)

Ice (tenths)5

Start Scan

Cast #	Stn	Samp #	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	C-13	C-13 DUP	DIC	DIC dup	FW-Alkalinity	FW-Aik DUP	TOC	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	I-129	Cs-137	
2	2	9	40	1	✓															✓	✓	✓		✓												
		10	30	2	✓																✓	✓	✓		✓											
		11	20	3	✓																	✓	✓		✓											
		12	10	4	✓																✓	✓	✓		✓											
		13	1	5	✓																✓	✓	✓		✓											
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Comments :

Queen Maud Gulf

Rosette sampling log mission 2005-04

Event 1
Station 1
CTD Filename 200504-001

Date 29/7/05
Local time (Time Zone) 1125
UTC time (start) 1525

Vessel CCGS Louis S. St-Laurent
Water depth (m) ~200 (1463 m/s soundspeed, w/o +9 hull correction)
Position (N, W) 74 15.88 95 23.34
CTD Operator SZ

Ice (tenths) 0
Start Scan X

Cast #	Stn	Samp #	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY		CFC	CFC Syringe #	CFC DUP Syringe #	Diss. OXY	OXY FLASK #	OXY DUP FLASK #		C-13	C-13 DUP	DIC	DIC dup	FW-Alkalinity	FW-Aik DUP	TOC	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	Bacteria	NH4	NH4 DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CDOM	I-129	Cs-137	
1	1	0.5	200	1	✓																✓	✓	✓		✓												
1	1	1	175	2	✓																✓	✓	✓		✓												
1	1		150	3	✓																																
1	1	2	125	4	✓																✓		✓		✓												
1			100	5	✓																																
1		3	75	6	✓																	✓		✓		✓											
1		4	50	7	✓																	✓		✓		✓											
		5	40	8	✓																	✓		✓		✓											
		6	30	9	✓																	✓		✓		✓											
		7	20	10	✓																	✓		✓		✓											
		8	10	11	✓																	✓		✓		✓											
			1	12	✓																																
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Comments :