

~~Sample~~ Analysed at IOS by Bernard Minkley

17 cases

Salinity Analysis

Ocean Science and Productivity Division

Institute of Ocean Sciences

Cruise: 2004-16		Model #		Serial # 59724		Date: 27 Oct 04		Analyst: BM
Standby: 1071523		Standard: 99987		34.995		Tank Temp: 24.		Zero: 0.000001
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks
					34.9973			23.994
37 629	CB20	1		34.9529	34.9530			T1 23.998
630		2.		34.9516	34.9526	34.9520		T2 23.995
7630		2.		34.9548	34.9552			cleaned Salinometer and filter
631		3.		34.9520	34.9527	34.9524		
632		4.		34.9486	34.9486			ref - 19936 39749
7632		4.		34.9486	34.9483			+19936
633		5		34.9394	34.9388	34.9387		Batal P144 23/09/03
634		6.		34.9122	34.9125			
635		7.		34.8781	34.8791	34.8793		
636		8.		34.8652	34.8655			
637		9.		34.8436	34.8439			
638		10.		34.8316	34.8321	34.8321		
639		11.		34.7985	34.7992	34.7991		
7639		11.		34.7980	34.7987			
640		12.		34.6424	34.6423			
641		13.		34.4290	34.4290			
642		14.		34.1238	34.1239			
643		15		33.8064	33.8067			
644		16		33.4845	33.4848			
645		17.		33.1476	33.1492	33.1496		
646		18		32.7603	32.7606			
647		19		32.6504	32.6512	32.6510		
648		20		32.5267	32.5273	32.5273		

Salinity Analysis

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Cruise: 2004-16		Model #		Serial #		Date: 27 Oct 04		Analyst: BMA
Standby: 127/522		Standard:				Tank Temp: 24.		Zero:
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks
649	CB20	21		32.3460	32.3404			
650		22		31.6670	31.6673			
651		23		28.6590	28.6598	28.6598		
652	CB20	24		26.1490	26.1496			
653	CB21	1		34.9525	34.9533	34.9538		
654		2		34.9530	34.9535			
7654		2		34.9537	34.9534			
655		3		34.9496	34.9497			
656		4		34.9384	34.9385			
7656		4		34.9390	34.9391			
657		5		34.9268	34.9269			
658		6		34.9142	34.9142			
659		7		34.8830	34.8833			
660		8		34.8704	34.8704			
661		9		34.8485	34.8487			
662		10		34.8318	34.8320			
663		11		34.7965	34.7965			
7663		11		34.7967	34.7962	34.7962		
664		12		34.5975	34.5978			
665		13		34.4014	34.4018			
666		14		34.1110	34.1111			
667		15		33.8002	33.8006			
668		16		33.4716	33.4717			
669	CB21	17		33.1875	33.1878			

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Salinity Analysis

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Cruise: 2004-16		Model #		Serial #		Date: 27 Oct 04		Analyst: RM	
Standby: 1.271525		Standard:				Tank Temp:		Zero:	
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks	
670	CB21	18		32.7741	32.7743				
671	f	19		32.6238	32.6240				
672		20		32.3855	32.3858				
673		21		31.9661	31.9665				
674		22		31.9338	31.9344	31.9343			
675		23		29.1046	29.1046				
676	CB21	24		26.6926	26.6927				
677	CB22	1		34.6110	34.6128	34.6141	34.6141		
7677		1		34.6136	34.6138			duplicate	
678		2		34.4318	34.4323				
679		3		34.1325	34.1326				
680		4		33.8333	33.8335				
681		5		33.4365	33.4366				
7681		5		33.4313	33.4317			duplicate	
682		6		33.1229	33.1230				
683		7		32.7779	32.7784				
684		8		32.6230	32.6231				
standard				.999765	34.9905			.99987 34.995	
				.999772	34.9907				
read instrument									
685		9		32.3183	32.3185				
686		10		31.8238	31.8242				
687		11		31.4048	31.4048				
688	CB22	12		28.6956	28.6951				

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Cruise: 2004-16		Model #		Serial #		Date: 27 Oct 04		Analyst: BM	
Standby: 1.27/666		Standard:				Tank Temp: 24.		Zero: 0.000001	
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks	
689	C822	13		26.3547	26.3541	26.3540			
690	C822	1.		34.9546	34.9561	34.9563			
691		2.		34.9572	34.9577	34.9578			
7691		2.		34.9568	34.9570			duplicate	
692		3.		34.9555	34.9559				
693		4.		34.9450	34.9448				
694		5.		34.9344	34.9349	34.9348			
7694		5		34.9351	34.9352			duplicate	
695		6.		34.9207	34.9210				
696		7.		34.8920	34.8919				
697		8.		34.8775	34.8777				
698		9.		34.8591	34.8598	34.8600			
699		10.		34.8400	34.8401				
700		11.		34.8102	34.8104				
7700		11.		34.8099	34.8102			duplicate	
701		12.		34.6033	34.6038	34.6039			
702		13		34.4067	34.4060	34.4063			
703		14.		34.0966	34.0968				
704		15		33.7457	33.7468	33.7465			
705		16.		33.4105	33.4107				
706		17		33.1050	33.1050				
707		18.		32.7691	32.7693				
708		19.		32.6137	32.6132	32.6132			
709	C822	20		32.3092	32.3090				

Salinity Analysis

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Cruise: 2004-16		Model #		Serial #		Date: 27 Oct 04		Analyst: BMM	
Standby:				Standard:		Tank Temp: 24.		Zero:	
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks	
710	CB22	21		31.8630	31.8622	31.8029			
711		22.		31.6201	31.6204				
712		23		28.8058	28.7992	28.7996			
713	CB22	24		26.3659	26.3661				
735	CB23	22		31.5222	31.5227				
736		23		28.7186	28.7188				
737		24		26.2067	26.2067				
738	CB24.	1.		34.9572	34.9577	34.9577			
739		2.		34.9576	34.9578				
7739		2.		34.9576	34.9574			duplicate	
740		3.		34.9558	34.9562				
7741		4.		34.9432	34.9431			duplicate	
741		4.		34.9447	34.9446				
742		5		34.9311	34.9320	34.9324			
743		6.		34.9203	34.9202				
744		7.		34.8864	34.8859				
745		8		34.8733	34.8737				
746		9.		34.8502	34.8513	34.8514			
747		10.		34.8302	34.8303				
748		11.		34.8044	34.8041				
749		12.		34.5946	34.5947				
7749		12.		34.5973	34.5975			duplicate	
750	CB24	13		34.4060	34.4058				

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Salinity Analysis

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Cruise: 2004-16		Model # 8410		Serial # 57724		Date: 28 Oct 04		Analyst: JSM	
Standby: 1271664		Standard: 99987 34.995				Tank Temp: 24.		Zero: -0.000001	
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks	
standard				999874	no adjustment required			-19935 39749	
762	CB25	1.		34.9569	34.9582	34.9578		+19936	
763		2.		34.9570	34.9574				
764		3.		34.9537	34.9542				
765		4.		34.9447	34.9446				
766		5.		34.9333	34.9335				
767		6.		34.9216	34.9217				
768		7.		34.8914	34.8915				
769		8.		34.8776	34.8780				
770		9.		34.8682	34.8687	34.8691			
771		10.		34.8362	34.8363				
772		11.		34.8106	34.8113	34.8113			
773	CB25	12.		34.6294	34.6280	34.6292			
755	CB24	18		32.7934	32.7932				
756		19.		32.6738	32.6739				
757		20		32.3740	32.3737				
758		21		31.9483	31.9483				
759		22.		31.7189	31.7191				
760		23		29.3608	29.3606				
761	CB24	24		27.4044	27.4045				
903	CB30	22.		31.8416	31.8426	31.8426			
904		23.		29.0796	29.0792				
905		24		26.6875	26.6875				

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Cruise: 2004-16		Model #		Serial # 59724		Date: 28 Oct 04		Analyst: BM	
Standby: 1271667		Standard:				Tank Temp: 24		Zero:	
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks	
714	C823	1.		34.9562	34.9573	34.9574			
715		2.		34.9516	34.9520				
7715		2		34.9518	34.9517			duplicate	
716		3.		34.9460	34.9463				
717		4.		34.9354	34.9355				
718		5		34.9193	34.9195				
7718		5		34.9195	34.9196			duplicate	
719		6.		34.9039	34.9040				
720		7.		34.8842	34.8844				
721		8.		34.8730	34.8737	34.8738			
722		9.		34.8569	34.8570				
723		10.		34.8363	34.8363				
724		11.		34.8105	34.8103				
7724		11.		34.8113	34.8115			duplicate	
725		12.		34.6131	34.6134				
726		13.		34.4271	34.4270				
727		14.		34.1670	34.1669				
728		15		33.7942	33.7942				
729		16.		33.4558	33.4560				
730		17		33.1567	33.1569				
731		18.		32.7743	32.7738	32.7737			
732		19.		32.6384	32.6392	32.6310		unstable	
733		20		32.3338	32.3337				
734	C823	21		31.8469	31.8471				

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Salinity Analysis

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Cruise: 2004-16		Model #		Serial # 59724		Date: 28 Oct 04		Analyst: BM
Standby: 1. 27/667		Standard:		Tank Temp: 24		Zero:		
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks
44. 786	CB26	1.		34.9564	34.9565			word "6040" on label
787		2.		34.9572	34.9570			
788		3.		34.9562	34.9569	34.9570		
7788		3.		34.9565	34.9565			
789		4.		34.9571	34.9572			
790		5		34.9573	34.9572			
791		6.		34.9568	34.9574	34.9574		
7791		6.		34.9579	34.9580			
792		7.		34.9575	34.9575			
793		8		34.9575	34.9568	34.9573		
794		9.		34.9572	34.9570			
795		10.		34.9571	34.9576	34.9574		
796		11.		34.9571	34.9570			
797		12.		34.9557	34.9557			
798		13.		34.9546	34.9544			
799		14.		34.9550	34.9553			
800		15.		34.9541	34.9545			
801		16.		34.9536	34.9541	34.9539		
802		17		34.9539	34.9542			
803		18		34.7994	34.7995			
804		19.		34.7592	34.7592			
805		20.		34.6199	34.6202			
806		21.		34.3807	34.3811			
807	CB26	22		32.9776	32.9777			

Salinity Analysis

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Cruise: 2004-16		Model #		Serial #		Date: 28 Oct 04		Analyst: B Munkley
Standby: 1.271669		Standard:				Tank Temp: 24.		Zero:
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks
808	CB26	23		28.9539	28.9528	28.9530		"GOLD"
7808		23.		28.9518	28.9525	28.9528		
809		24.		26.3097	26.3090	26.3088		"GOLD"
810	CB27	1.		34.9474	34.9560	34.9565		
811		2.		34.9575	34.9578			
7811		2.		34.9578	34.9580			duplicate
812		3.		34.9542	34.9541			
813		4.		34.9424	34.9427			
7813		4		34.9430	34.9427			duplicate
814		5.		34.9325	34.9331	34.9331		
815		6.		34.9180	34.9180			
816		7.		34.8855	34.8855			
817		8.		34.8715	34.8715			
818		9.		34.8508	34.8512			
819		10.		34.8335	34.8336			
820		11		34.8028	34.8027			
821		12.		34.6226	34.6226			
7821		12		34.6231	34.6234			duplicate
822		13.		34.4463	34.4464			
823		14.		34.1397	34.1400			
824		15.		33.8348	33.8351			
825	825	16.		33.4577	33.4573			
826		17.		33.2405	33.2404			
827		18.		32.8877	32.8867	32.8873		

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Cruise: 2004-16		Model #		Serial # 59724		Date: 28 Oct 04		Analyst: BM
Standby: 127669		Standard:				Tank Temp: 24		Zero:
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks
840	CB28	7.		34.8800	34.8801			
841		8.		34.8716	34.8718			
842		9.		34.8486	34.8488			
843		10.		34.8315	34.8317			
844		11.		34.8017	34.8015			
845		12.		34.6080	34.6081			
7845		12.		34.6099	34.6097			duplicate
846		13.		34.4023	34.4026			
847		14.		34.1257	34.1257			
848		15.		33.7238	33.7233			
849		16.		33.4101	33.4103			
850		17.		33.1279	33.1280			
851		18.		32.7766	32.7765			
852		19.		32.6130	32.6134			
853		20.		32.3282	32.3275	32.3277		
854		21		31.9473	31.9475			
855		22.		31.1088	31.1092			
856		23		29.7723	29.7724			
857	CB28	24		24.4728	24.4717	24.4721		
858	CB29	1		34.9607	34.9610			
859		2.		34.9549	34.9553			
7859		2		34.9554	34.9558			
860		3.		34.9443	34.9445			
861	CB29	4.		34.9325	34.9328			

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Cruise: 2004-16		Model #		Serial #		Date: 28 Oct 04		Analyst: B/M	
Standby: 1271669		Standard:				Tank Temp: 24.		Zero:	
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks	
828	C327	19		32.8724	32.8723				
829		20		31.7683	31.7678				
830		21		32.0965	32.0968				
831		22		31.7513	31.7514				
832		23		28.5880	28.5877	28.5873			
833	C327	24		26.3888	26.3888				
834	C328	1.		34.9539	34.9542				
835		2.		34.9517	34.9519				
7835		2.		34.9517	34.9518			duplicate	
836		3.		34.9457	34.9459				
837		4.		34.9345	34.9344				
7837		4.		34.9347	34.9346			duplicate	
838		5.		34.9173	34.9176				
839		6.		34.9003	34.9005				
840		7.		34.8806	34.8805				
841		8.		34.8696	34.8699				
842		9.		34.8496	34.8496				
843		10.		34.8321	34.8325				
844		11.		34.8014	34.8010				
845		12.		34.6102	34.6097				
7845		12.		34.6096	34.6089	34.6090		duplicate	
847		14.		34.1285	34.1286				
849		16.		33.4098	33.4095				

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Cruise: 2024-16	Model #	Serial #		Date: 28 Oct 04	Analyst: BSM			
Standby: 1.27/669	Standard:			Tank Temp: 24°	Zero:			
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks
858	C829	1.		34.9555	34.9559			
859		2.		34.9537	34.9540			
7859		2.		34.9546	34.9549			duplicate
860		3.		34.9440	34.9439			
861		4.		34.9323	34.9325			
7861		4.		34.9325	34.9322			duplicate
862		5.		34.9149	34.9148			
863		6.		34.8999	34.9001			
864		7.		34.8787	34.8784			
865		8.		34.8692	34.8695			
866		9.		34.8444	34.8443			
867		10.		34.8259	34.8260			
868		11.		34.8019	34.8017			
869		12.		34.6089	34.6093			
7869		12		34.6091	34.6087			duplicate
871		14.		34.1725	34.1719	34.1726		
873	C829	16		33.5330	33.5333			
882	C830	1.		34.9545	34.9556	34.9561		
883		2.		34.9480	34.9484			
7883		2.		34.9490	34.9490			duplicate
884		3.		34.9436	34.9438			
885		4.		34.9306	34.9308			
7885		4.		34.9314	34.9320	34.9330		duplicate unstable
886		5		34.9149	34.9152			

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Cruise: 2004-16		Model #		Serial # 59724		Date: 29 Oct 04		Analyst: RM
Standby: 1271665		Standard: .99987 34.995		Tank Temp: 24		Zero: - 0.000001		
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks
Standard				.999875	34.9951	no adjustment		-19935 39750
861	C229	4.		34.9326	34.9331	34.9330		+19935
862		5.		34.9156	34.9161			
863		6.		34.9014	34.9012			
864		7.		34.8782	34.8782			
865		8.		34.8672	34.8683	34.8681		
866		9.		34.8466	34.8472	34.8468		
867		10.		34.8284	34.8283			
7869		12.		34.6091	34.6092			duplicate
869		12.		34.6084	34.6082			
868		11.		34.8017	34.8020			
870		13		34.4074	34.4076			
871		14.		34.1678	34.1678			
872		15.		33.8369	33.8371			
873		16.		33.5486	33.5486			
874		17.		33.3749	33.3752			
875		18.		32.8392	32.8390			
876		19.		32.6466	32.6466			
877		20		32.3288	32.3289			
878		21		32.0247	32.0253	32.0252		
879		22.		31.8618	31.8618			
880		23		28.9271	28.9264	28.9270		
881		24		25.7287	25.7287			

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Salinity Analysis

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Cruise: 2004-16		Model #		Serial #		Date: 29 Oct 04		Analyst: B.M.
Standby: 27/6/03		Standard:		Tank Temp: 24		Zero:		
Sample	Station	Depth	Date	Salinity	Salinity	Salinity	Drift	Remarks
882	C830	1.		34.9536	34.9546	34.9544		
883		2.		34.9488	34.9489			
7883		2.		34.9487	34.9481	34.9484		duplicate
884		3.		34.9420	34.9413	34.9412		
885		4.		34.9293	34.9294			
7885		4.		34.9291	34.9294			duplicate
886		5.		34.9148	34.9147			
887		6.		34.9037	34.9036			
888		7.		34.8895	34.8902	34.8903		
889		8.		34.8755	34.8753			
890		9.		34.8574	34.8574			
891		10.		34.8407	34.8406			
892		11.		34.8054	34.8057			
893		12.		34.6034	34.6036			
7893		12		34.6024	34.6017	34.6021		duplicate
894		13.		34.4047	34.4049			
895		14.		34.0860	34.0864			
896		15.		33.7377	33.7369	33.7377		
897		16.		33.3826	33.3823			
898		17.		33.1098	33.1103			
899		18		32.7812	32.7815			
900		19.		32.6841	32.6838			
901		20		32.3040	32.3045			
902		21		32.0111	32.0106	32.0104		

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(18)

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$$\begin{array}{r} 36 \\ 36. \\ \hline 38 \\ 38 \\ \hline 44 \end{array}$$