

The National Marine Biological
Analytical Quality Control Scheme
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Particle Size Results – PS32

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Table 1. Summary of the particle size information received from participating laboratories and replicate analysis laboratories for the thirty-second particle size distribution - PS32.

Replicate Sample Data

Sample	Method	% < 63 micron	Median (phi)	Mean (phi)	Sort	IGS (SKi)
PS32_42	L ¹	58.78	4.88	4.79	2.62	-0.02
PS32_43	L ¹	57.88	4.82	4.75	2.63	0.00
PS32_44	L ¹	59.88	4.97	4.85	2.62	-0.04
PS32_45	L ¹	58.96	4.91	4.81	2.62	-0.02
PS32_46	L ¹	60.02	4.99	4.86	2.61	-0.04
PS32_47	L ¹	59.29	4.94	4.82	2.62	-0.03
PS32_48	L ¹	57.23	4.76	4.72	2.64	0.01
PS32_35	L ²	100	7.08	7.204	1.302	0.215
PS32_36	L ²	100	7.15	7.279	1.289	0.203
PS32_37	L ²	100	7.45	7.593	1.151	0.247
PS32_38	L ²	100	7.15	7.269	1.292	0.201
PS32_39	L ²	100	7.43	7.582	1.149	0.254
PS32_40	L ²	100	7.41	7.564	1.144	0.263
PS32_41	L ²	100	7.10	7.221	1.305	0.206
UM	Overall Average	79.43	6.07	6.09	1.93	0.10
UM	L¹RepAv	58.86	4.90	4.80	2.62	-0.02
UM	L²RepAv	100	7.25	7.39	1.23	0.23

Participant Data

Lab	Method	%<63µm	Median	Mean	Sort	IGS (SKi)
LB1501	L	62.02	4.98	4.69	2.54	-2.4
LB1502	-	-	-	-	-	-
LB1503	L	68.82	5.56	5.33	2.52	-0.09
LB1504	L	85.50	5.30	5.24	1.93	-0.1
LB1505	L	77.83	6.17	5.97	2.35	0.1
LB1506*	L	67.16	5.56	5.25	2.48	-0.16
LB1507	L	67.16	5.56	5.25	2.48	-0.16
LB1508	L	70.54	5.97	5.51	2.49	-0.28
LB1509	L	89.61	6.318	8.926	1.925	0.06
LB1510	L	72.10	5.86	5.50	2.45	-0.18
LB1511	L	69.69	5.64	5.44	2.59	-0.09
LB1526	L	65.53	5.34	3.49	2.53	0.06
LB1527	L	85.355	6.07	5.99	1.84	-0.07

Key to methods:

L - Laser analysis DS - Dry sieve CC - Coulter counter
 S - Sieve WS - Wet sieve FD - Freeze dried
 P - Pipette

L¹ - Replicate analysis by Malvern Laser (MS2000)

L² - Replicate analysis by Coulter Laser (LS230)

L* - data for this laboratory not included in calculations (replicate data).

"-" - No data. See forthcoming Annual Report, Section 6, for details.

Shaded cells - maximum and minimum values for each derived statistic.

Table 2. Z-score results for the derived statistics supplied by participating laboratories for the particle size exercise - PS32.

PS32																
LabCode	%<63µm	z-score	Flag	Median	z-score	Flag	Mean	z-score	Flag	Sort	z-score	Flag	IGS (SKi)	z-score	Flag	Description: pre/post analysis
Laser ¹ RepAv	58.86	-1.65	PASS	4.90	-1.88	PASS	4.80	-1.04	PASS	2.62	1.01	PASS	-0.019	0.45	PASS	Sandy mud / Sandy mud
Laser ² RepAv	100	2.83	Fail	7.25	3.64	Fail	7.39	2.52	Fail	1.23	-3.86	Fail	0.23	2.62	Fail	Mud / Mud
LB1501	62.02	-1.31	PASS	4.98	-1.69	PASS	4.69	-1.19	PASS	2.54	0.73	PASS	-2.4	-20.33	Fail	Drk Brwn, consolidated, slightly sticky, very slightly gravelly, sandy mud, with organic fragments and mica present.(g)sM
LB1502	-	-	Deemed Fail	-	-	Deemed Fail	-	-	Deemed Fail	-	-	Deemed Fail	-	-	Deemed Fail	- / -
LB1503	68.82	-0.57	PASS	5.56	-0.32	PASS	5.33	-0.31	PASS	2.52	0.66	PASS	-0.090	-0.18	PASS	sM / sM
LB1504	85.50	1.25	PASS	5.30	-0.93	PASS	5.24	-0.43	PASS	1.93	-1.41	PASS	-0.100	-0.26	PASS	Mud / Mud
LB1505	77.83	0.42	PASS	6.17	1.11	PASS	5.97	0.57	PASS	2.35	0.07	PASS	0.100	1.48	PASS	Sandy mud (anoxic) / Sandy mud (sM)
LB1506*	67.16	-0.75	PASS	5.56	-0.32	PASS	5.25	-0.42	PASS	2.48	0.52	PASS	-0.16	-0.79	PASS	Mud / Sandy Mud
LB1507	67.16	-0.75	PASS	5.56	-0.32	PASS	5.25	-0.42	PASS	2.48	0.52	PASS	-0.160	-0.79	PASS	Mud / Sandy Mud
LB1508	70.54	-0.38	PASS	5.97	0.64	PASS	5.51	-0.06	PASS	2.49	0.56	PASS	-0.280	-1.83	PASS	sandy mud / sandy mud
LB1509	89.61	1.70	PASS	6.32	1.45	PASS	8.926	4.63	Fail	1.93	-1.42	PASS	0.060	1.13	PASS	Silt / Poorly sorted medium silt
LB1510	72.10	-0.21	PASS	5.86	0.38	PASS	5.50	-0.08	PASS	2.45	0.42	PASS	-0.180	-0.96	PASS	Sandy mud / Sandy mud
LB1511	69.69	-0.47	PASS	5.64	-0.14	PASS	5.44	-0.16	PASS	2.59	0.91	PASS	-0.090	-0.18	PASS	Sandy MUD / Sandy MUD
LB1526	65.53	-0.92	PASS	5.34	-0.84	PASS	3.49	-2.84	Fail	2.53	0.70	PASS	0.060	1.13	PASS	Silt / -
LB1527	85.36	1.24	PASS	6.07	0.87	PASS	5.99	0.60	PASS	1.84	-1.72	PASS	-0.070	0.00	PASS	Mud / Sandy Mud

"-" no return and/or data from laboratory. See text, Section 6 in the forthcoming Annual Report, for details.

"*" = centralised analysis

Laser¹RepAv - Average of replicate analysis by Malvern Laser (Mastersizer2000)

Laser²RepAv - Average of replicate analysis by Coulter Laser (LS230)

Figure 2. Particle size distribution curves from participating laboratories for sediment samples from PS32 (replicated data excluded).

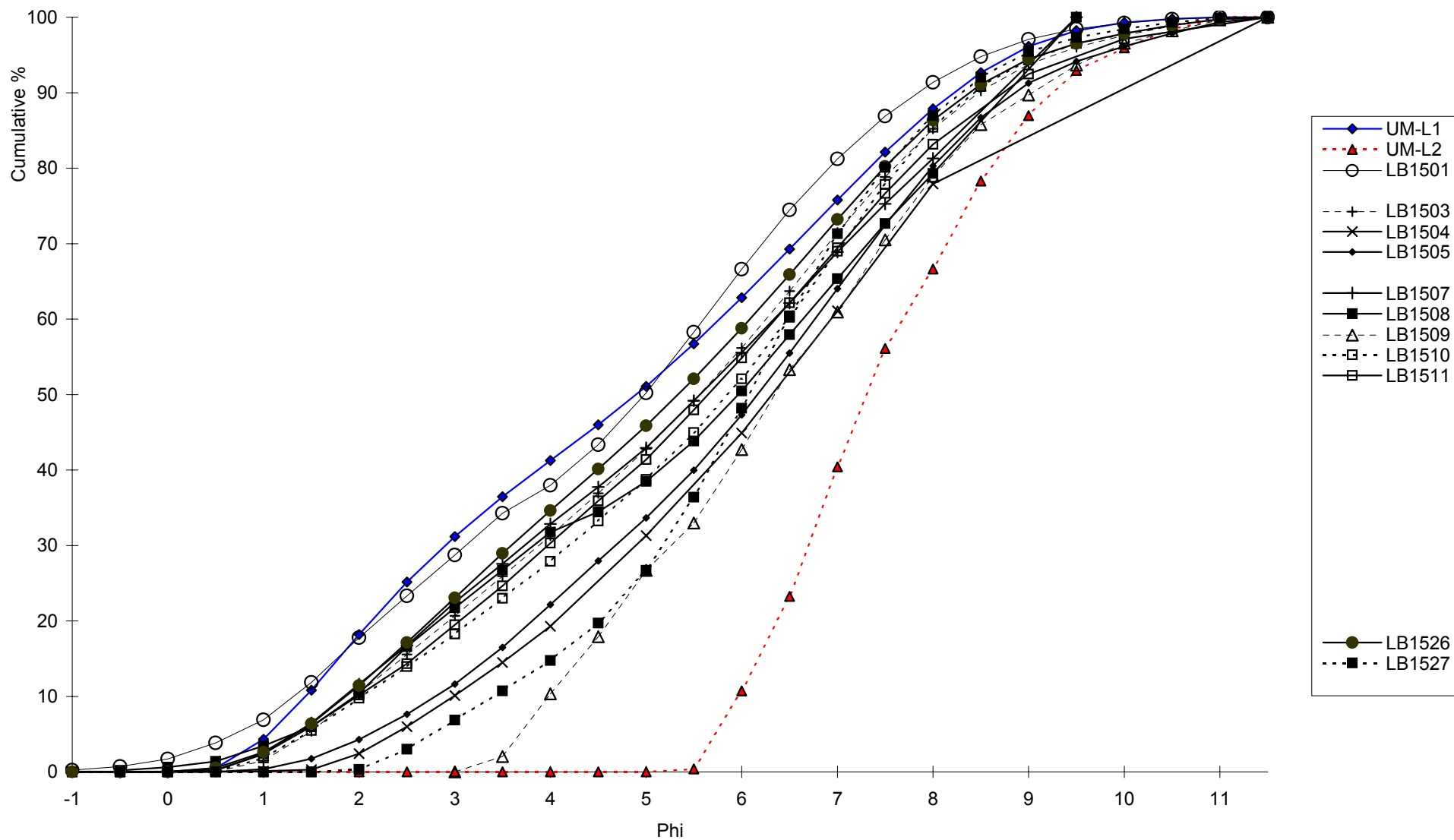


Figure 3. Z-scores for PS32 derived statistics (replicated data not displayed).

