

Datarapport: Kornstørrelsesfordeling

Laboratorieanalyser for DTU Aqua

Ingerlise Nørgaard



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Ingerlise Nørgaard

Stationslister tobisskrabetogt 2010

Stationslister	Positions nr	ICES sq.	Område	Station	lon	lat	Redskab
24-11-2010	2010-01	38F1	1	35	012184	543178	Ny v Veen
24-11-2010	2010-01	38F1	1	36	012182	543174	Ny v Veen
24-11-2010	2010-01	38F1	1	37	012177	543170	Ny v Veen
26-11-2010	2010-02	38F1	1	68	013973	543830	Ny v Veen
26-11-2010	2010-02	38F1	1	69	013964	543829	Ny v Veen
26-11-2010	2010-02	38F1	1	70	013956	543828	Ny v Veen
26-11-2010	2010-03	38F1	1	74	015274	543467	Ny v Veen
26-11-2010	2010-03	38F1	1	75	015266	543467	Ny v Veen
26-11-2010	2010-03	38F1	1	76	015262	543467	Ny v Veen
27-11-2010	2010-04	37F2	1	83	022240	542954	Ny v Veen
27-11-2010	2010-04	37F2	1	84	022239	542956	Ny v Veen
27-11-2010	2010-04	37F2	1	85	022230	542956	Ny v Veen
05-12-2010	4067-05	40F7	2	168	071566	555856	Ny v Veen
05-12-2010	4067-05	40F7	2	169	071562	555857	Ny v Veen
05-12-2010	4067-05	40F7	2	170	071555	555860	Ny v Veen
05-12-2010	4067-10	40F7	2	174	070731	555166	Ny v Veen
05-12-2010	4067-10	40F7	2	175	070783	555561	Ny v Veen
05-12-2010	4067-10	40F7	2	176	070778	555159	Ny v Veen
06-12-2010	4067-04	40F7	2	180	072477	554976	Ny v Veen
06-12-2010	4067-04	40F7	2	181	072489	554976	Ny v Veen
06-12-2010	4067-04	40F7	2	182	072480	554970	Ny v Veen
06-12-2010	4067-07	40F7	2	186	072544	553755	Ny v Veen
06-12-2010	4067-07	40F7	2	187	072550	553754	Ny v Veen
06-12-2010	4067-07	40F7	2	188	072557	553752	Ny v Veen
06-12-2010	3966-01	39F6	2	192	065013	552191	Ny v Veen
06-12-2010	3966-01	39F6	2	193	065019	552190	Ny v Veen
06-12-2010	3966-01	39F6	2	194	065031	552192	Ny v Veen
06-12-2010	3966-03	39F6	2	198	064904	551809	Ny v Veen
06-12-2010	3966-03	39F6	2	199	064909	551808	Ny v Veen
06-12-2010	3966-03	39F6	2	200	064920	551805	Ny v Veen
07-12-2010	3867-01	38F7	2	213	070573	545262	Ny v Veen
07-12-2010	3867-01	38F7	2	214	070570	545265	Ny v Veen
07-12-2010	3867-01	38F7	2	215	070569	545266	Ny v Veen
07-12-2010	3867-05	38F7	2	219	071810	544719	Ny v Veen
07-12-2010	3867-05	38F7	2	220	071816	544714	Ny v Veen
07-12-2010	3867-05	38F7	2	221	071821	544716	Ny v Veen
07-12-2010	3867-02	38F7	2	225	071781	544177	Ny v Veen
07-12-2010	3867-02	38F7	2	226	071785	544176	Ny v Veen
07-12-2010	3867-02	38F7	2	227	071792	544176	Ny v Veen
08-12-2010	3867-06	38F7	2	231	073032	543580	Ny v Veen
08-12-2010	3867-06	38F7	2	232	073032	543583	Ny v Veen
08-12-2010	3867-06	38F7	2	233	073031	543587	Ny v Veen
08-12-2010	3867-11	38F7	2	237	075967	543514	Ny v Veen
08-12-2010	3867-11	38F7	2	238	075958	543515	Ny v Veen
08-12-2010	3867-11	38F7	2	239	075944	541518	Ny v Veen
08-12-2010	3867-10	38F7	2	243	074825	544355	Ny v Veen

Prøvebehandling

GEUS har foretaget analyser på 51 prøver fra Tobisskrabetogt 2010.

Ved modtagelsen af prøverne er de blevet registreret med følgende 5 kategorier:

- dato
- lokalitet
- fortløbende laboratorienummer
- rekvirent
- analysekrav

Resterende prøvemateriale bortkastes 14 dage efter afrapportering.

Analysemetoder

Sigteanalyse:

Totalprøven er tørret og sigtet gennem en sigtesøjle fra 32 mm. ned til 0,063 mm med $\frac{1}{2}$ phi intervaller, hvilket svarer til 16 sigter. Metoden er tillempet i forhold til DS 405.9 DS/EN 933-1 idet der er indføjet flere sigter end der beskrives i denne standard.

Kornkurven:

Som udgangspunkt for kornstørrelsesanalysen er anvendt DS405.9, /EN 933-1. idet der er indføjet flere sigter end der beskrives i denne standard.

Resultater

I bilag 1 er vist kornkurven for sedimentprøverne. Kornkurven viser fordeling af sand, silt og ler i prøverne.

Referencer

Dansk Standard DS 405.9. Kornstørrelsesfordeling bestemt ved sigteanalyse. Dansk Standardiseringsråd, Kbh. 1978.

DS/EN 933-1. Kornstørrelsesfordeling bestemt ved sigteanalyse. Dansk Standardiseringsråd, Kbh. 2004.

Bilag 1

Grain Size Distribution

Geotechnical

Sample Id: Station 35
Lab. Id: 110000
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 113,8 g

Size Fractions

Size	Size	Weight	Weight	Cumulated
mm	Φ	g	%	amount passing
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,08	0,07	99,93
1,40	-0,49	0,16	0,14	99,79
1,00	0,00	0,50	0,44	99,35
0,710	0,49	1,49	1,31	98,04
0,500	1,00	5,49	4,82	93,22
0,355	1,49	18,06	15,87	77,35
0,250	2,00	45,22	39,74	37,61
0,180	2,47	34,66	30,46	7,15
0,125	3,00	6,84	6,01	1,14
0,090	3,47	0,30	0,26	0,88
0,075	3,74	0,02	0,02	0,86
0,063	3,99	0,00	0,00	0,86
< 0,063	> 3,99	0,98	0,86	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,86
Sand, fine (0,063 mm - 0,200 mm):	14,99
Sand, medium (0,2 mm - 0,6 mm):	79,66
Sand, coarse (0,6 mm - 2 mm):	4,42
Gravel (> 2 mm):	0,07
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,58	0,79
16%	84%	0,42	1,27
25%	75%	0,35	1,52
40%	60%	0,31	1,69
Median 50%	50%	0,28	1,82
75%	25%	0,22	2,18
84%	16%	0,20	2,32
90%	10%	0,19	2,42
95%	5%	0,16	2,64

Moments Statistics

Mean	1,80
Sorting	0,54
Skewness	-0,09
Kurtosis	1,15
Uniformity Coefficient	1,66

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

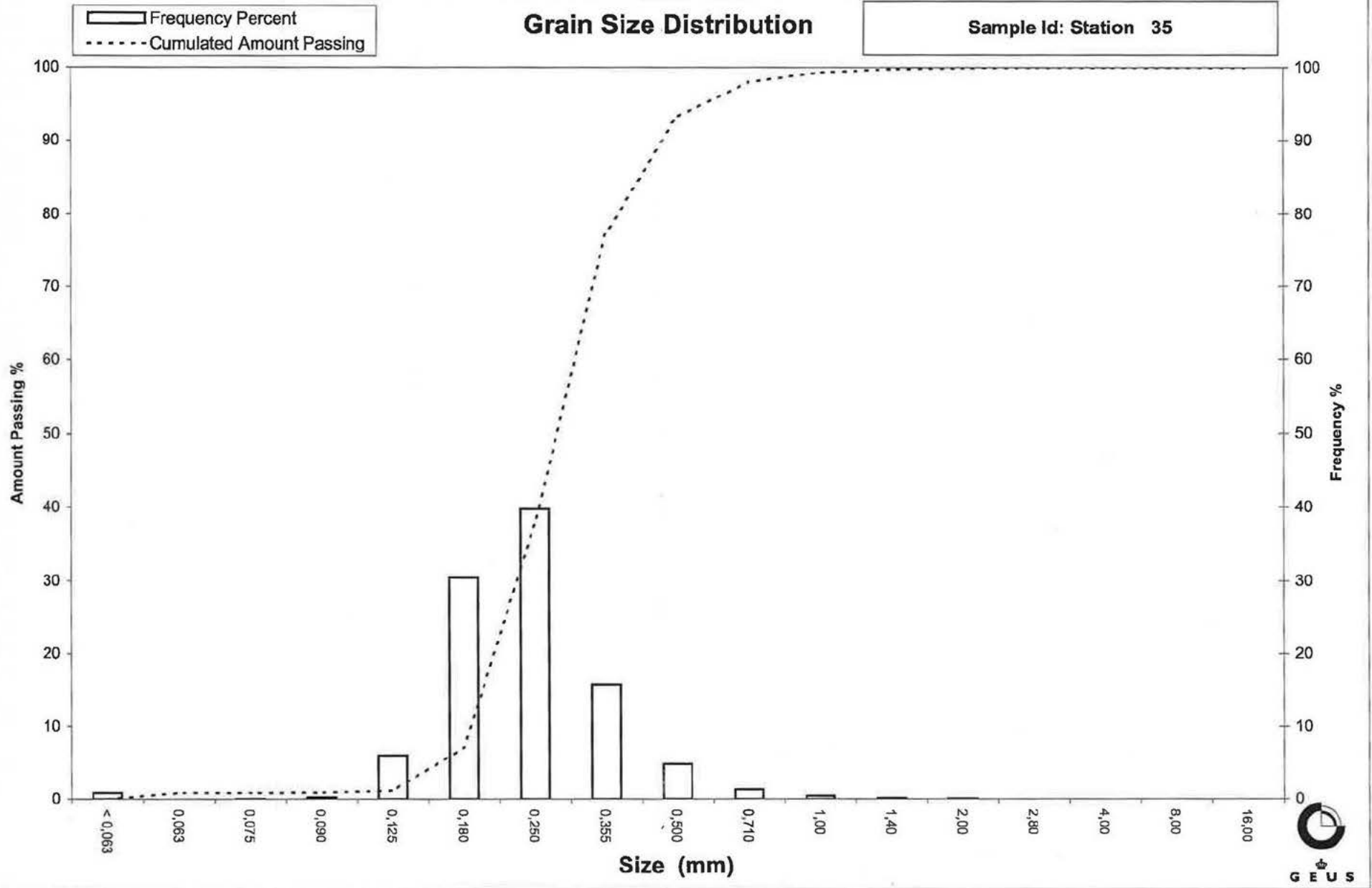
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Sample Id: Station 35



Grain Size Distribution

Geotechnical

Sample Id: Station 36
Lab. Id: 110001
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 109,2 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,80	0,73	99,27
4,00	-2,00	0,00	0,00	99,27
2,80	-1,49	0,00	0,00	99,27
2,00	-1,00	0,06	0,05	99,21
1,40	-0,49	0,17	0,16	99,06
1,00	0,00	0,35	0,32	98,74
0,710	0,49	1,32	1,21	97,53
0,500	1,00	5,37	4,92	92,61
0,355	1,49	18,58	17,01	75,60
0,250	2,00	38,56	35,31	40,28
0,180	2,47	32,73	29,97	10,31
0,125	3,00	9,54	8,74	1,58
0,090	3,47	0,81	0,74	0,83
0,075	3,74	0,09	0,08	0,75
0,063	3,99	0,02	0,02	0,73
< 0,063	> 3,99	0,80	0,73	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,73
Sand, fine (0,063 mm - 0,200 mm):	18,14
Sand, medium (0,2 mm - 0,6 mm):	76,08
Sand, coarse (0,6 mm - 2 mm):	4,26
Gravel (> 2 mm):	0,79
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,60	0,73
16%	84%	0,43	1,23
25%	75%	0,35	1,50
40%	60%	0,31	1,70
Median 50%	50%	0,28	1,84
75%	25%	0,21	2,22
84%	16%	0,19	2,37
90%	10%	0,18	2,49
95%	5%	0,15	2,77

Moments Statistics

Mean	1,81
Sorting	0,59
Skewness	-0,08
Kurtosis	1,16
Uniformity Coefficient	1,73

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the ½ phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

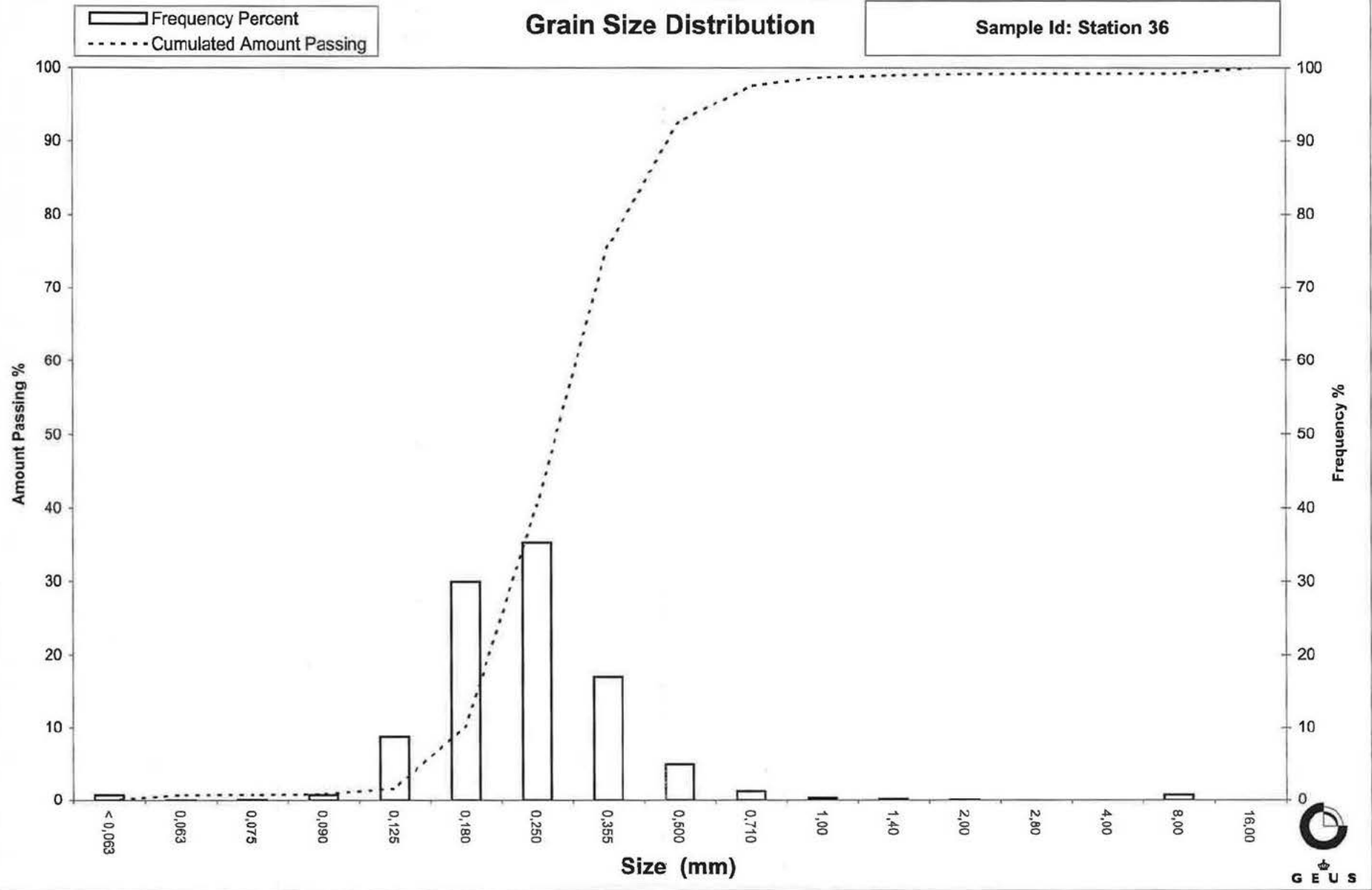
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 36



Grain Size Distribution

Geotechnical

Sample Id: Station 37
Lab. Id: 110002
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 16 mm. 53,4g > 31,5 mm er tillagt 16 mm



Total Weight 2447,94 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	163,89	6,70	93,30
8,00	-3,00	469,45	19,18	74,13
4,00	-2,00	617,34	25,22	48,91
2,80	-1,49	277,24	11,33	37,58
2,00	-1,00	148,02	6,05	31,54
1,40	-0,49	94,71	3,87	27,67
1,00	0,00	80,48	3,29	24,38
0,710	0,49	88,69	3,62	20,76
0,500	1,00	103,73	4,24	16,52
0,355	1,49	124,28	5,08	11,44
0,250	2,00	145,48	5,94	5,50
0,180	2,47	103,61	4,23	1,27
0,125	3,00	27,17	1,11	0,16
0,090	3,47	1,76	0,07	0,09
0,075	3,74	0,17	0,01	0,08
0,063	3,99	0,13	0,01	0,07
< 0,063	> 3,99	1,80	0,07	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,07
Sand, fine (0,063 mm - 0,200 mm):	2,40
Sand, medium (0,2 mm - 0,6 mm):	16,06
Sand, coarse (0,6 mm - 2 mm):	13,00
Gravel (> 2 mm):	68,46
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	-----	-----
16%	84%	12,12	-3,60
25%	75%	8,36	-3,06
40%	60%	5,76	-2,53
Median 50%	50%	4,17	-2,06
75%	25%	1,08	-0,10
84%	16%	0,49	1,04
90%	10%	0,33	1,60
95%	5%	0,24	2,05

Moments Statistics

Mean	-1,54
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	17,48

Size Classes and Percentiles are found by linear interpolation

Formulas

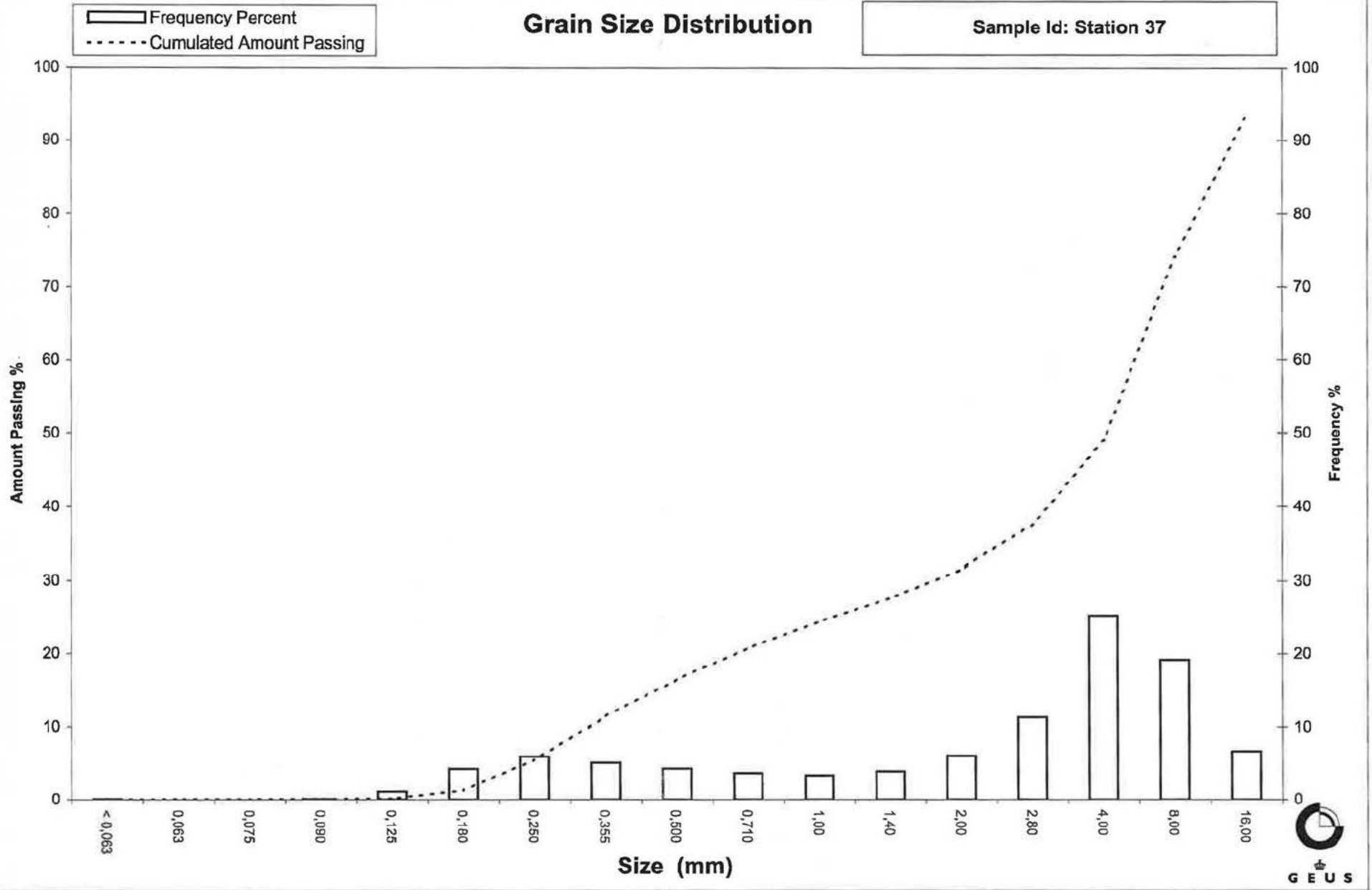
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 37



Grain Size Distribution

Geotechnical

Sample Id: Station 68
Lab. Id: 110003
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 133,07 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,19	0,14	99,86
2,80	-1,49	0,15	0,11	99,74
2,00	-1,00	0,02	0,02	99,73
1,40	-0,49	0,19	0,14	99,59
1,00	0,00	0,37	0,28	99,31
0,710	0,49	0,59	0,44	98,87
0,500	1,00	1,24	0,93	97,93
0,355	1,49	3,86	2,90	95,03
0,250	2,00	12,69	9,54	85,50
0,180	2,47	51,96	39,05	46,45
0,125	3,00	55,10	41,41	5,04
0,090	3,47	4,92	3,70	1,35
0,075	3,74	0,32	0,24	1,10
0,063	3,99	0,09	0,07	1,04
< 0,063	> 3,99	1,38	1,04	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,04
Sand, fine (0,063 mm - 0,200 mm):	56,57
Sand, medium (0,2 mm - 0,6 mm):	40,77
Sand, coarse (0,6 mm - 2 mm):	1,35
Gravel (> 2 mm):	0,27
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,35	1,50
16%	84%	0,25	2,02
25%	75%	0,23	2,11
40%	60%	0,20	2,29
Median 50%	50%	0,19	2,42
75%	25%	0,15	2,72
84%	16%	0,14	2,84
90%	10%	0,13	2,93
95%	5%	0,12	3,00

Moments Statistics

Mean	2,43
Sorting	0,44
Skewness	-0,11
Kurtosis	1,01
Uniformity Coefficient	1,55

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

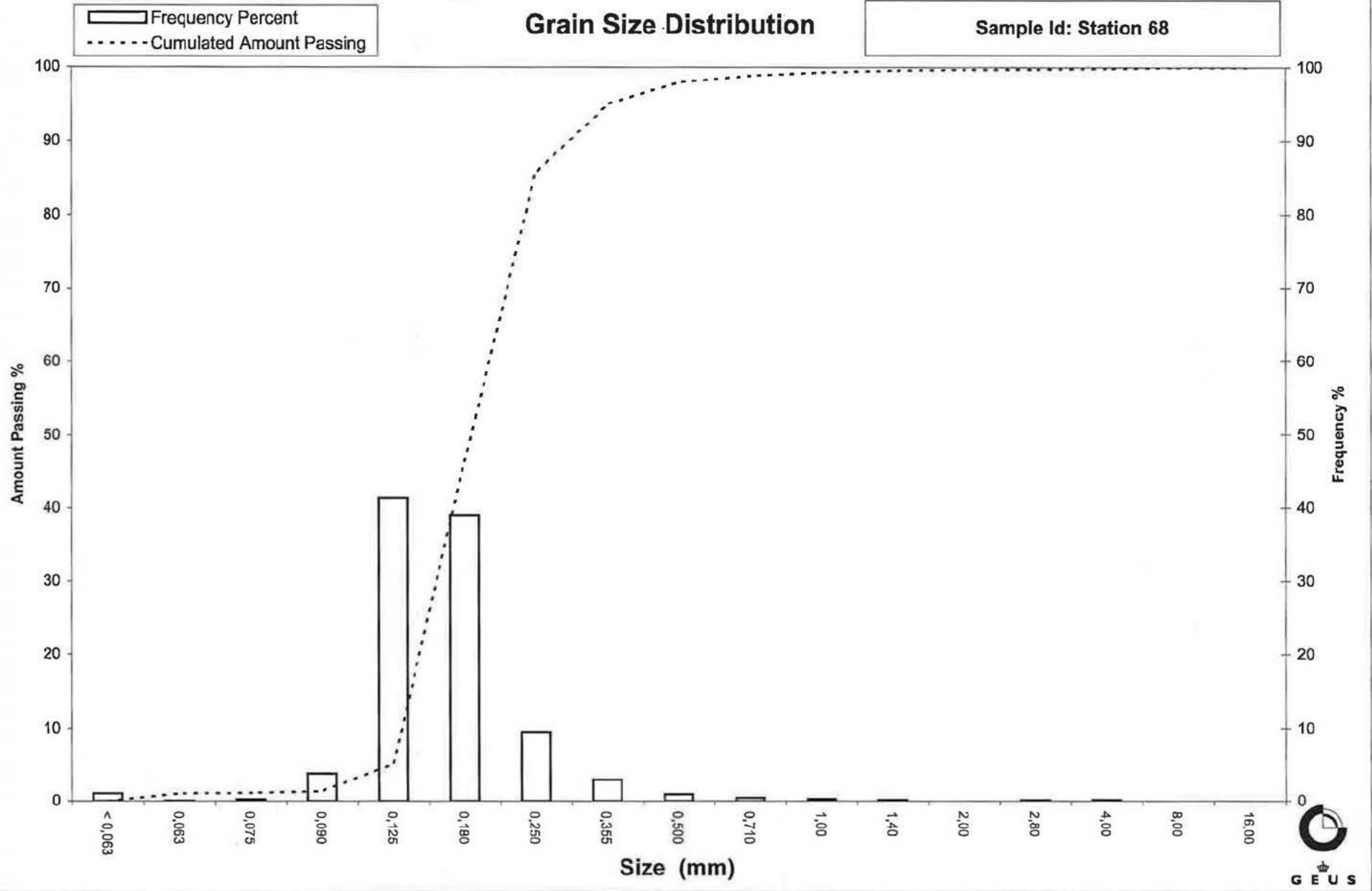
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 68



Grain Size Distribution

Geotechnical

Sample Id: Station 69
Lab. Id: 110004
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 111,44 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,01	0,01	99,99
2,00	-1,00	0,02	0,02	99,97
1,40	-0,49	0,07	0,06	99,91
1,00	0,00	0,17	0,15	99,76
0,710	0,49	0,34	0,31	99,45
0,500	1,00	1,23	1,10	98,35
0,355	1,49	5,17	4,64	93,71
0,250	2,00	19,24	17,26	76,44
0,180	2,47	53,01	47,57	28,88
0,125	3,00	29,07	26,09	2,79
0,090	3,47	2,08	1,87	0,92
0,075	3,74	0,08	0,07	0,85
0,063	3,99	0,02	0,02	0,83
< 0,063	> 3,99	0,93	0,83	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,83
Sand, fine (0,063 mm - 0,200 mm):	41,63
Sand, medium (0,2 mm - 0,6 mm):	56,41
Sand, coarse (0,6 mm - 2 mm):	1,10
Gravel (> 2 mm):	0,03
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	φ
Amount in sieve	Amount passing		
5%	95%	0,40	1,34
16%	84%	0,30	1,76
25%	75%	0,25	2,01
40%	60%	0,23	2,15
Median 50%	50%	0,21	2,24
75%	25%	0,17	2,54
84%	16%	0,15	2,71
90%	10%	0,14	2,83
95%	5%	0,13	2,95

Moments Statistics

Mean	2,24
Sorting	0,48
Skewness	-0,07
Kurtosis	1,25
Uniformity Coefficient	1,61

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

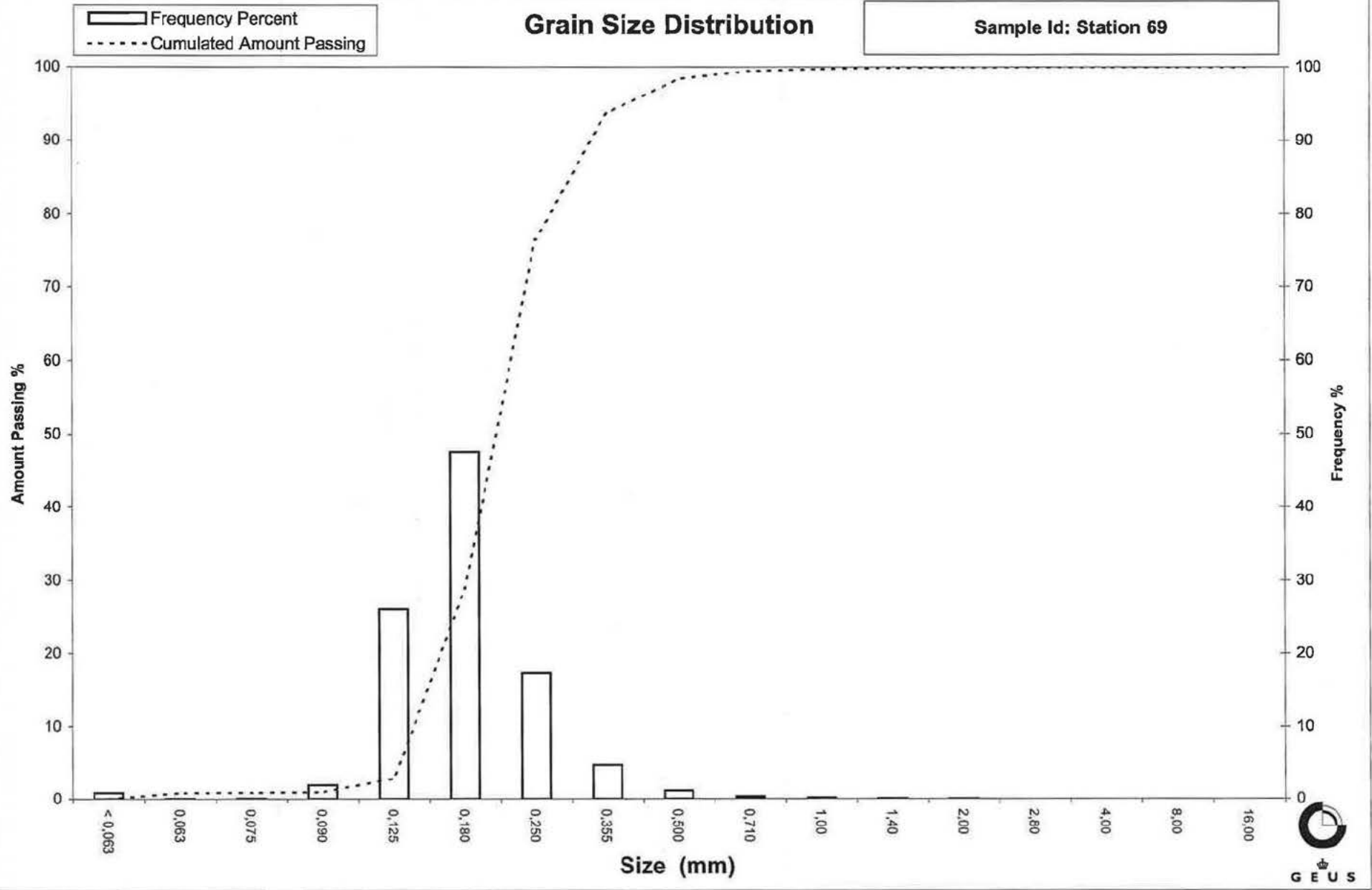
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 69



Grain Size Distribution

Geotechnical

Sample Id: Station 70
Lab. Id: 110005
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 104,29 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,13	0,12	99,88
2,80	-1,49	0,00	0,00	99,88
2,00	-1,00	0,02	0,02	99,86
1,40	-0,49	0,06	0,06	99,80
1,00	0,00	0,11	0,11	99,69
0,710	0,49	0,28	0,27	99,42
0,500	1,00	0,98	0,94	98,48
0,355	1,49	2,81	2,69	95,79
0,250	2,00	8,54	8,19	87,60
0,180	2,47	36,34	34,85	52,76
0,125	3,00	51,04	48,94	3,82
0,090	3,47	2,99	2,87	0,95
0,075	3,74	0,10	0,10	0,85
0,063	3,99	0,04	0,04	0,82
< 0,063	> 3,99	0,85	0,82	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,82
Sand, fine (0,063 mm - 0,200 mm):	61,90
Sand, medium (0,2 mm - 0,6 mm):	36,22
Sand, coarse (0,6 mm - 2 mm):	0,92
Gravel (> 2 mm):	0,14
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,34	1,54
16%	84%	0,24	2,04
25%	75%	0,22	2,15
40%	60%	0,19	2,36
Median 50%	50%	0,18	2,50
75%	25%	0,15	2,75
84%	16%	0,14	2,85
90%	10%	0,13	2,92
95%	5%	0,13	2,98

Moments Statistics

Mean	2,46
Sorting	0,42
Skewness	-0,23
Kurtosis	1,00
Uniformity Coefficient	1,47

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

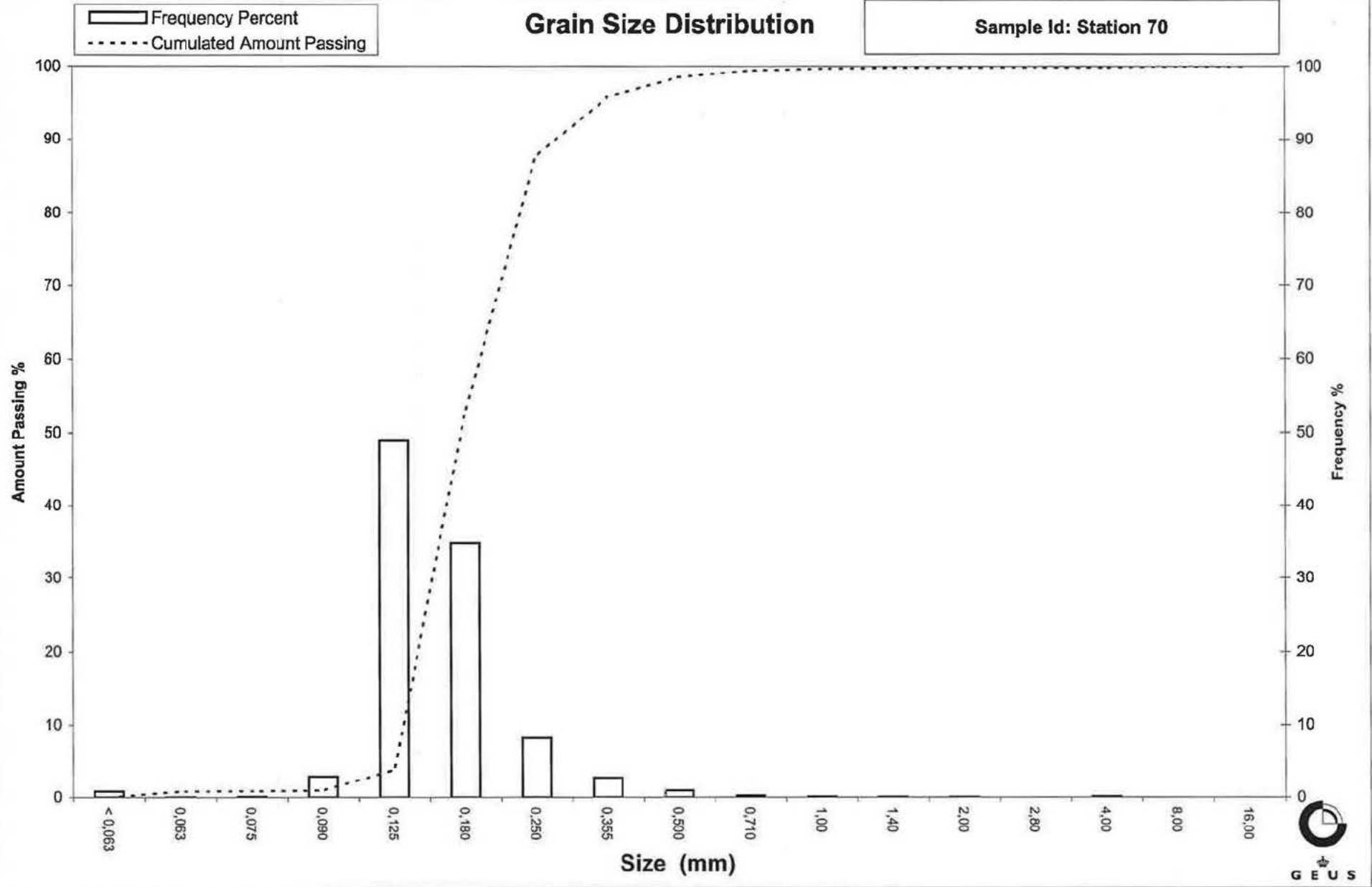
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 70



Grain Size Distribution

Geotechnical

Sample Id: Station 74
Lab. Id: 110006
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 16 mm. 65,1g > 31,5 mm er tillagt 16 mm



Total Weight 1739,67 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	132,73	7,63	92,37
8,00	-3,00	59,65	3,43	88,94
4,00	-2,00	255,09	14,66	74,28
2,80	-1,49	373,58	21,47	52,80
2,00	-1,00	317,55	18,25	34,55
1,40	-0,49	260,43	14,97	19,58
1,00	0,00	111,03	6,38	13,20
0,710	0,49	46,84	2,69	10,51
0,500	1,00	36,89	2,12	8,39
0,355	1,49	40,16	2,31	6,08
0,250	2,00	39,05	2,24	3,83
0,180	2,47	34,13	1,96	1,87
0,125	3,00	23,60	1,36	0,51
0,090	3,47	5,93	0,34	0,17
0,075	3,74	1,15	0,07	0,11
0,063	3,99	0,86	0,05	0,06
< 0,063	> 3,99	1,00	0,06	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,06
Sand, fine (0,063 mm - 0,200 mm):	2,37
Sand, medium (0,2 mm - 0,6 mm):	6,96
Sand, coarse (0,6 mm - 2 mm):	25,16
Gravel (> 2 mm):	65,45
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	-----	-----
16%	84%	6,65	-2,73
25%	75%	4,20	-2,07
40%	60%	3,20	-1,68
Median 50%	50%	2,68	-1,42
75%	25%	1,62	-0,69
84%	16%	1,18	-0,23
90%	10%	0,66	0,60
95%	5%	0,30	1,71

Moments Statistics

Mean	-1,46
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	4,85

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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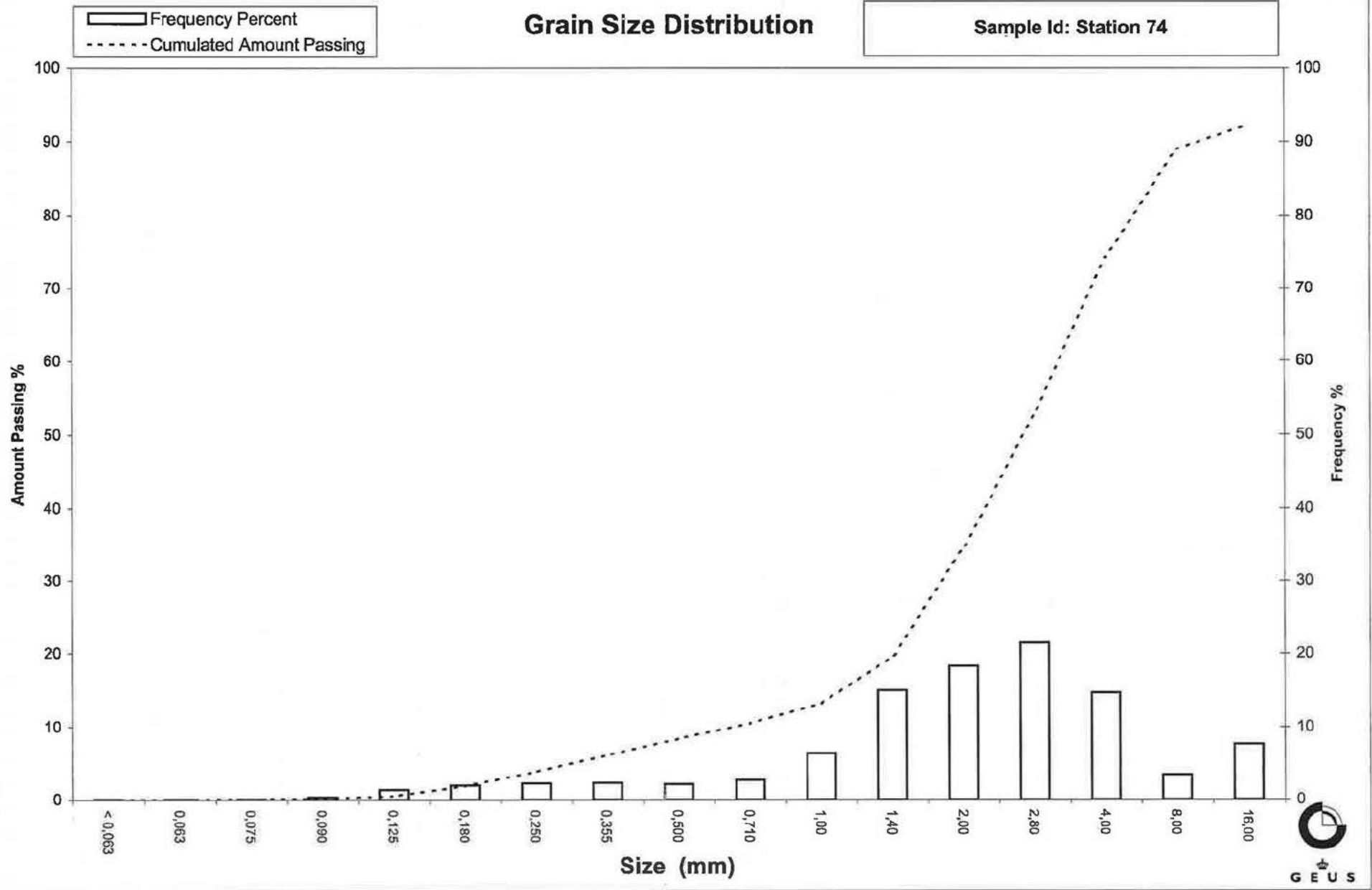
Sieve Analysis

Gravel

Sand

Grain Size Distribution

Sample Id: Station 74



Grain Size Distribution

Geotechnical

Sample Id: Station 75
Lab. Id: 110007
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks:



GEUS

Total Weight 2110,78 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	99,13	4,70	95,30
4,00	-2,00	479,10	22,70	72,61
2,80	-1,49	310,02	14,69	57,92
2,00	-1,00	248,55	11,78	46,14
1,40	-0,49	222,30	10,53	35,61
1,00	0,00	169,75	8,04	27,57
0,710	0,49	119,66	5,67	21,90
0,500	1,00	109,18	5,17	16,73
0,355	1,49	134,49	6,37	10,36
0,250	2,00	106,94	5,07	5,29
0,180	2,47	59,32	2,81	2,48
0,125	3,00	39,65	1,88	0,60
0,090	3,47	8,65	0,41	0,19
0,075	3,74	1,43	0,07	0,12
0,063	3,99	0,90	0,04	0,08
< 0,063	> 3,99	1,72	0,08	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,08
Sand, fine (0,063 mm - 0,200 mm):	3,20
Sand, medium (0,2 mm - 0,6 mm):	15,91
Sand, coarse (0,6 mm - 2 mm):	26,95
Gravel (> 2 mm):	53,86
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	7,95	-2,99
16%	84%	6,01	-2,59
25%	75%	4,42	-2,14
40%	60%	2,97	-1,57
Median 50%	50%	2,26	-1,18
75%	25%	0,87	0,20
84%	16%	0,48	1,05
90%	10%	0,35	1,52
95%	5%	0,24	2,04

Moments Statistics

Mean	-0,91
Sorting	1,67
Skewness	0,25
Kurtosis	0,88
Uniformity Coefficient	8,54

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean ($\phi_{16\%} + \phi_{84\%} + \phi_{50\%}$) / 3 (Folk and Ward 1957)

Sorting ($\phi_{84\%} - \phi_{16\%}$) / 4 + ($\phi_{95\%} - \phi_{5\%}$) / 6,6 (Folk and Ward 1957)

Kurtosis ($\phi_{95\%} - \phi_{5\%}$) / (2,44 * ($\phi_{75\%} - \phi_{25\%}$)) (Folk and Ward 1957)

Skewness ($\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}$) / (2 * ($\phi_{84\%} - \phi_{16\%}$)) + ($\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}$) / (2 * ($\phi_{95\%} - \phi_{5\%}$)) (Folk and Ward 1957)

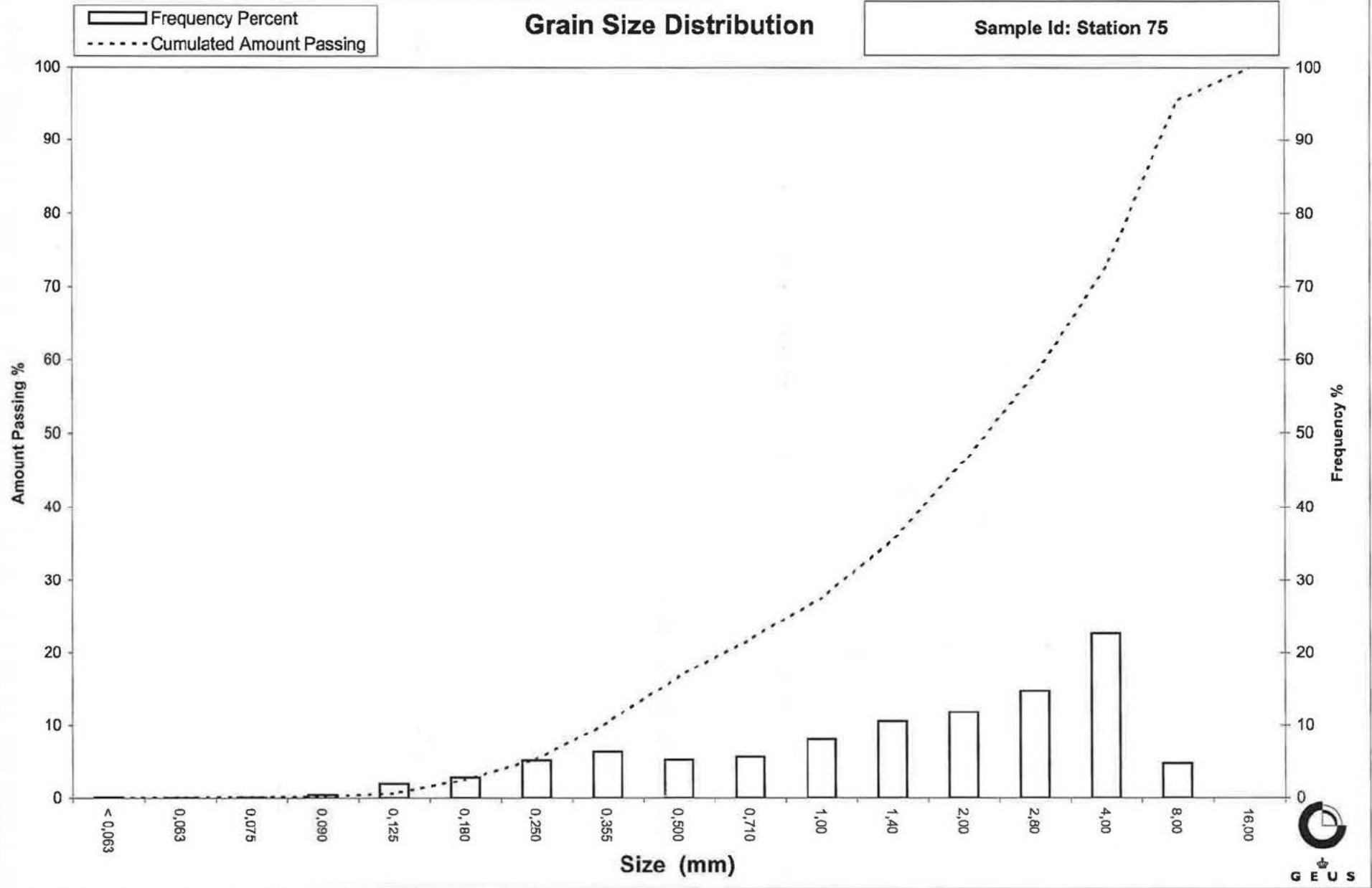
Uniformity Coefficient ($d_{60\%} / d_{10\%}$) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 75



Grain Size Distribution

Geotechnical

Sample Id: Station 76
Lab. Id: 110008
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 115,42 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,52	0,45	99,55
2,80	-1,49	0,00	0,00	99,55
2,00	-1,00	0,02	0,02	99,53
1,40	-0,49	0,05	0,04	99,49
1,00	0,00	0,09	0,08	99,41
0,710	0,49	0,11	0,10	99,32
0,500	1,00	0,29	0,25	99,06
0,355	1,49	1,48	1,28	97,78
0,250	2,00	8,05	6,97	90,81
0,180	2,47	41,09	35,60	55,21
0,125	3,00	54,52	47,24	7,97
0,090	3,47	8,22	7,12	0,85
0,075	3,74	0,53	0,46	0,39
0,063	3,99	0,14	0,12	0,27
< 0,063	> 3,99	0,31	0,27	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,27
Sand, fine (0,063 mm - 0,200 mm):	65,11
Sand, medium (0,2 mm - 0,6 mm):	33,81
Sand, coarse (0,6 mm - 2 mm):	0,35
Gravel (> 2 mm):	0,47
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,31	1,68
16%	84%	0,24	2,08
25%	75%	0,22	2,19
40%	60%	0,19	2,40
Median 50%	50%	0,17	2,52
75%	25%	0,14	2,79
84%	16%	0,13	2,90
90%	10%	0,13	2,97
95%	5%	0,11	3,18

Moments Statistics

Mean	2,50
Sorting	0,43
Skewness	-0,11
Kurtosis	1,03
Uniformity Coefficient	1,49

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

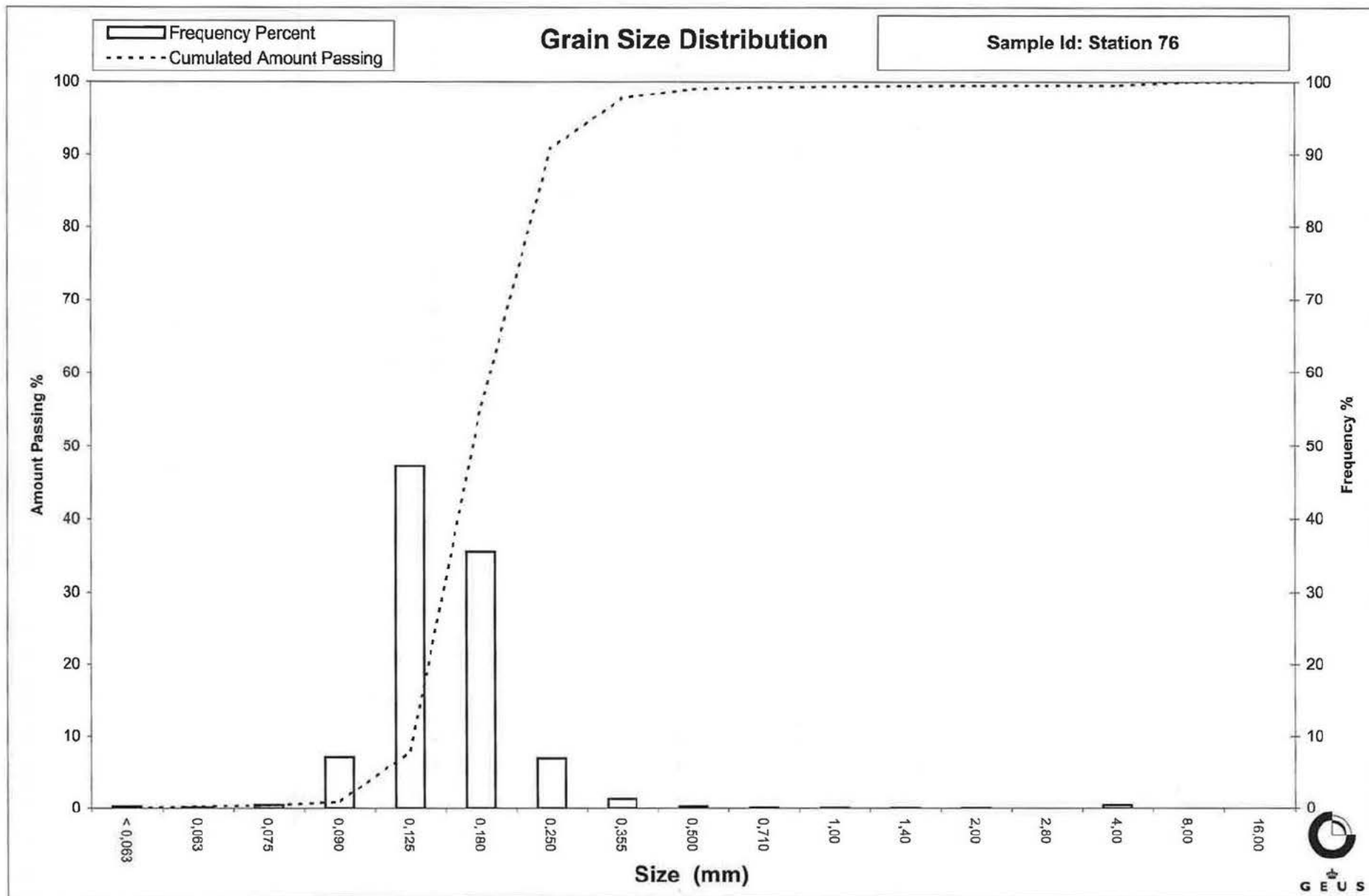
Size Classes and Percentiles
 are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 83
Lab. Id: 110009
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 113,4 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	2,17	1,91	98,09
2,80	-1,49	0,40	0,35	97,73
2,00	-1,00	0,58	0,51	97,22
1,40	-0,49	0,61	0,54	96,68
1,00	0,00	0,64	0,56	96,12
0,710	0,49	0,75	0,66	95,46
0,500	1,00	1,21	1,07	94,39
0,355	1,49	2,31	2,04	92,35
0,250	2,00	6,53	5,76	86,60
0,180	2,47	29,91	26,38	60,22
0,125	3,00	57,59	50,78	9,44
0,090	3,47	8,59	7,57	1,86
0,075	3,74	0,68	0,60	1,26
0,063	3,99	0,18	0,16	1,10
< 0,063	> 3,99	1,25	1,10	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,10
Sand, fine (0,063 mm - 0,200 mm):	66,65
Sand, medium (0,2 mm - 0,6 mm):	27,14
Sand, coarse (0,6 mm - 2 mm):	2,32
Gravel (> 2 mm):	2,78
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,62	0,69
16%	84%	0,24	2,04
25%	75%	0,22	2,19
40%	60%	0,18	2,48
Median 50%	50%	0,17	2,57
75%	25%	0,14	2,82
84%	16%	0,13	2,92
90%	10%	0,13	2,99
95%	5%	0,10	3,26

Moments Statistics

Mean	2,51
Sorting	0,61
Skewness	-0,33
Kurtosis	1,68
Uniformity Coefficient	1,43

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

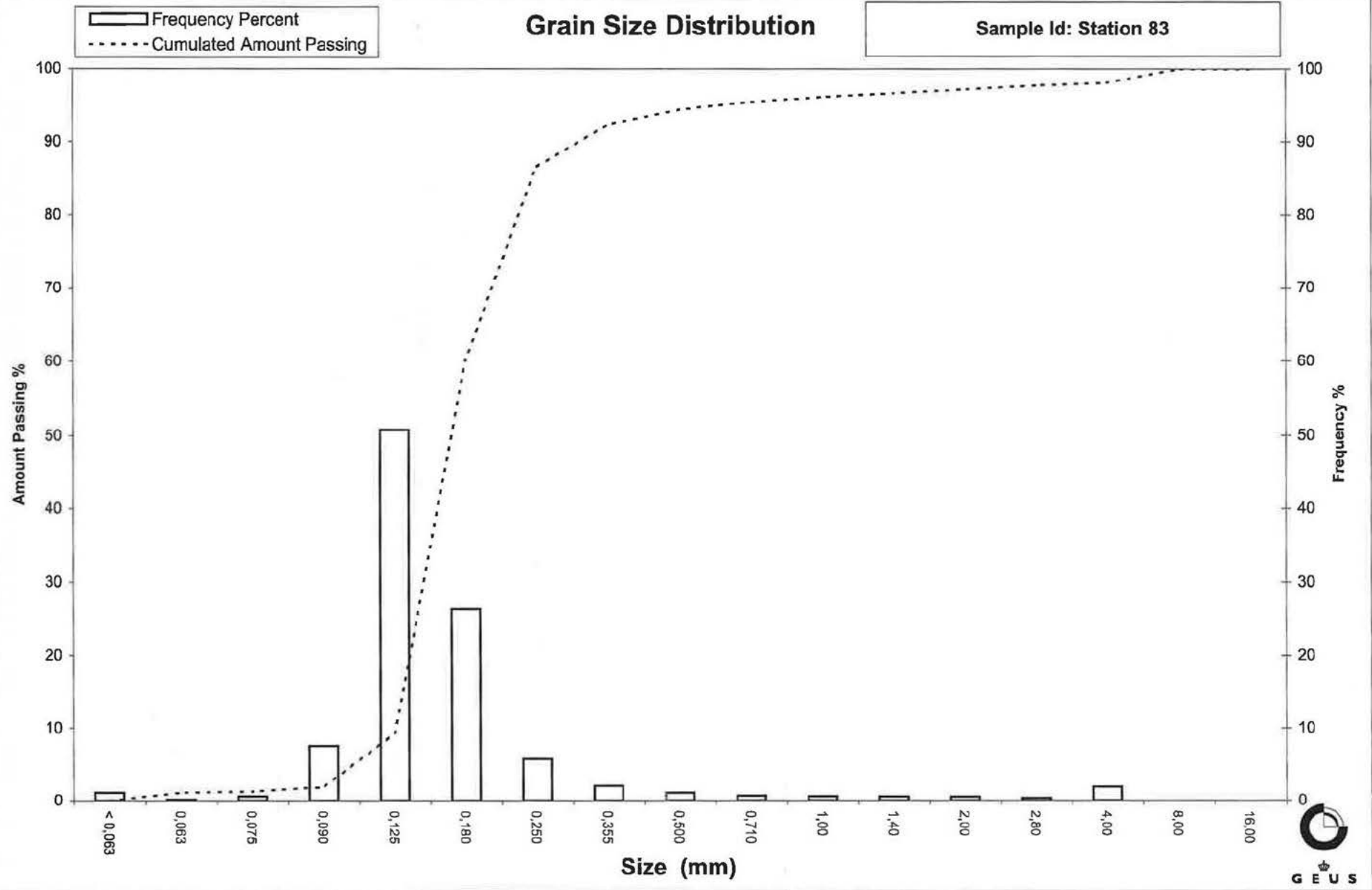
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 83



Grain Size Distribution

Geotechnical

Sample Id: Station 84
Lab. Id: 110010
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 105,45 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,47	0,45	99,55
2,80	-1,49	0,30	0,28	99,27
2,00	-1,00	0,37	0,35	98,92
1,40	-0,49	0,34	0,32	98,60
1,00	0,00	0,35	0,33	98,26
0,710	0,49	0,48	0,46	97,81
0,500	1,00	0,98	0,93	96,88
0,355	1,49	2,13	2,02	94,86
0,250	2,00	5,77	5,47	89,39
0,180	2,47	24,79	23,51	65,88
0,125	3,00	57,66	54,68	11,20
0,090	3,47	9,66	9,16	2,04
0,075	3,74	0,81	0,77	1,27
0,063	3,99	0,29	0,28	1,00
< 0,063	> 3,99	1,05	1,00	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,00
Sand, fine (0,063 mm - 0,200 mm):	71,60
Sand, medium (0,2 mm - 0,6 mm):	24,73
Sand, coarse (0,6 mm - 2 mm):	1,60
Gravel (> 2 mm):	1,08
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,37	1,45
16%	84%	0,23	2,10
25%	75%	0,21	2,27
40%	60%	0,17	2,52
Median 50%	50%	0,16	2,61
75%	25%	0,14	2,85
84%	16%	0,13	2,95
90%	10%	0,12	3,05
95%	5%	0,10	3,30

Moments Statistics

Mean	2,55
Sorting	0,49
Skewness	-0,23
Kurtosis	1,31
Uniformity Coefficient	1,45

Size Classes and Percentiles are found by linear interpolation

Formulas

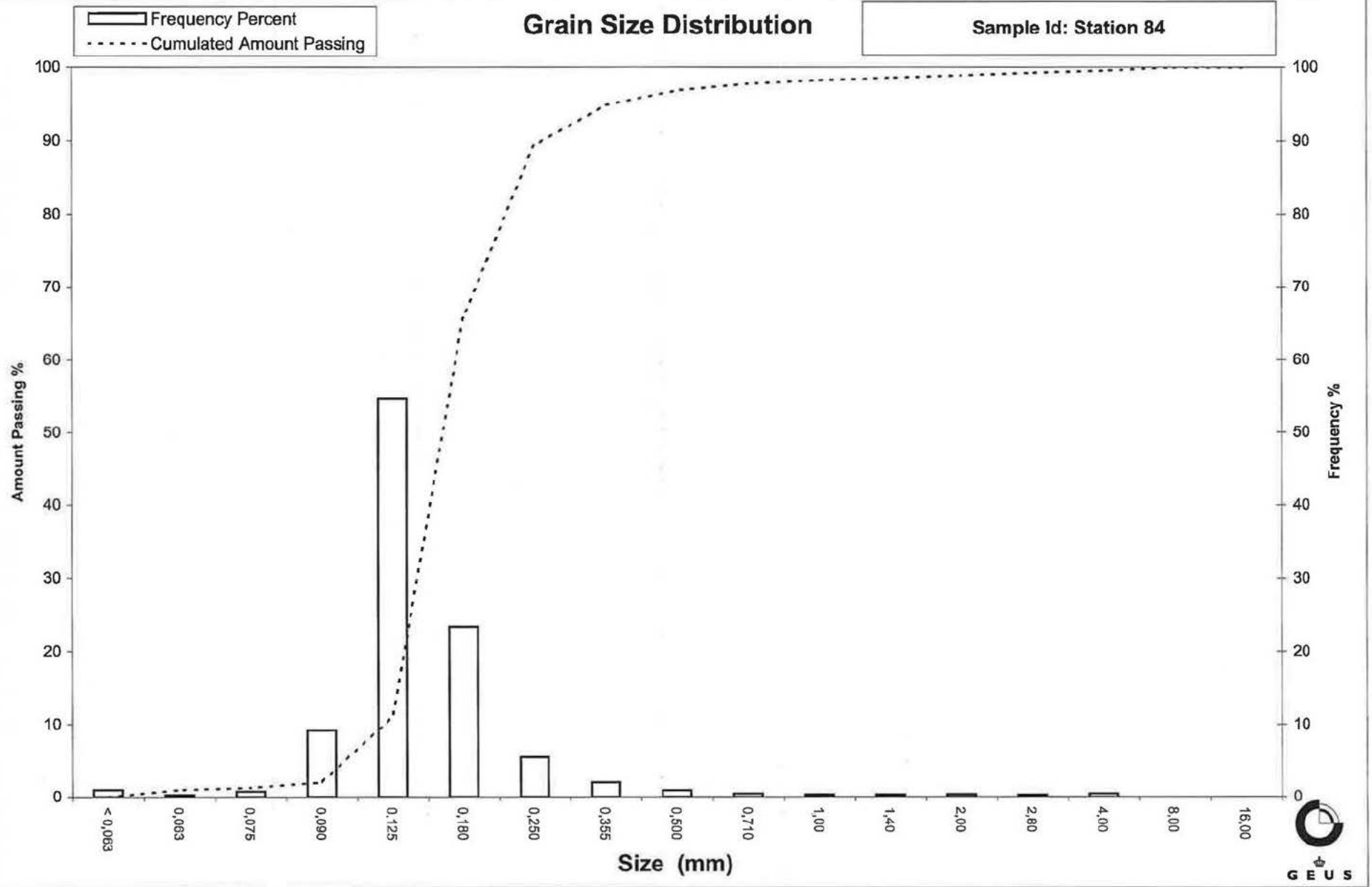
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 84



Grain Size Distribution

Geotechnical

Sample Id: Station 85
Lab. Id: 110011
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 202,75 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	7,36	3,63	96,37
4,00	-2,00	1,40	0,69	95,68
2,80	-1,49	1,42	0,70	94,98
2,00	-1,00	1,10	0,54	94,44
1,40	-0,49	0,74	0,37	94,07
1,00	0,00	1,01	0,50	93,57
0,710	0,49	1,01	0,50	93,07
0,500	1,00	1,81	0,89	92,18
0,355	1,49	3,82	1,88	90,29
0,250	2,00	12,34	6,08	84,21
0,180	2,47	46,11	22,74	61,46
0,125	3,00	104,19	51,39	10,07
0,090	3,47	17,79	8,78	1,30
0,075	3,74	1,15	0,57	0,73
0,063	3,99	0,41	0,20	0,53
< 0,063	> 3,99	1,07	0,53	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,53
Sand, fine (0,063 mm - 0,200 mm):	67,43
Sand, medium (0,2 mm - 0,6 mm):	24,64
Sand, coarse (0,6 mm - 2 mm):	1,83
Gravel (> 2 mm):	5,56
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	2,84	-1,50
16%	84%	0,25	2,00
25%	75%	0,22	2,17
40%	60%	0,18	2,49
Median 50%	50%	0,17	2,58
75%	25%	0,14	2,83
84%	16%	0,13	2,93
90%	10%	0,12	3,00
95%	5%	0,10	3,25

Moments Statistics

Mean	2,50
Sorting	0,95
Skewness	-0,48
Kurtosis	2,99
Uniformity Coefficient	1,43

Size Classes and Percentiles are found by linear interpolation

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

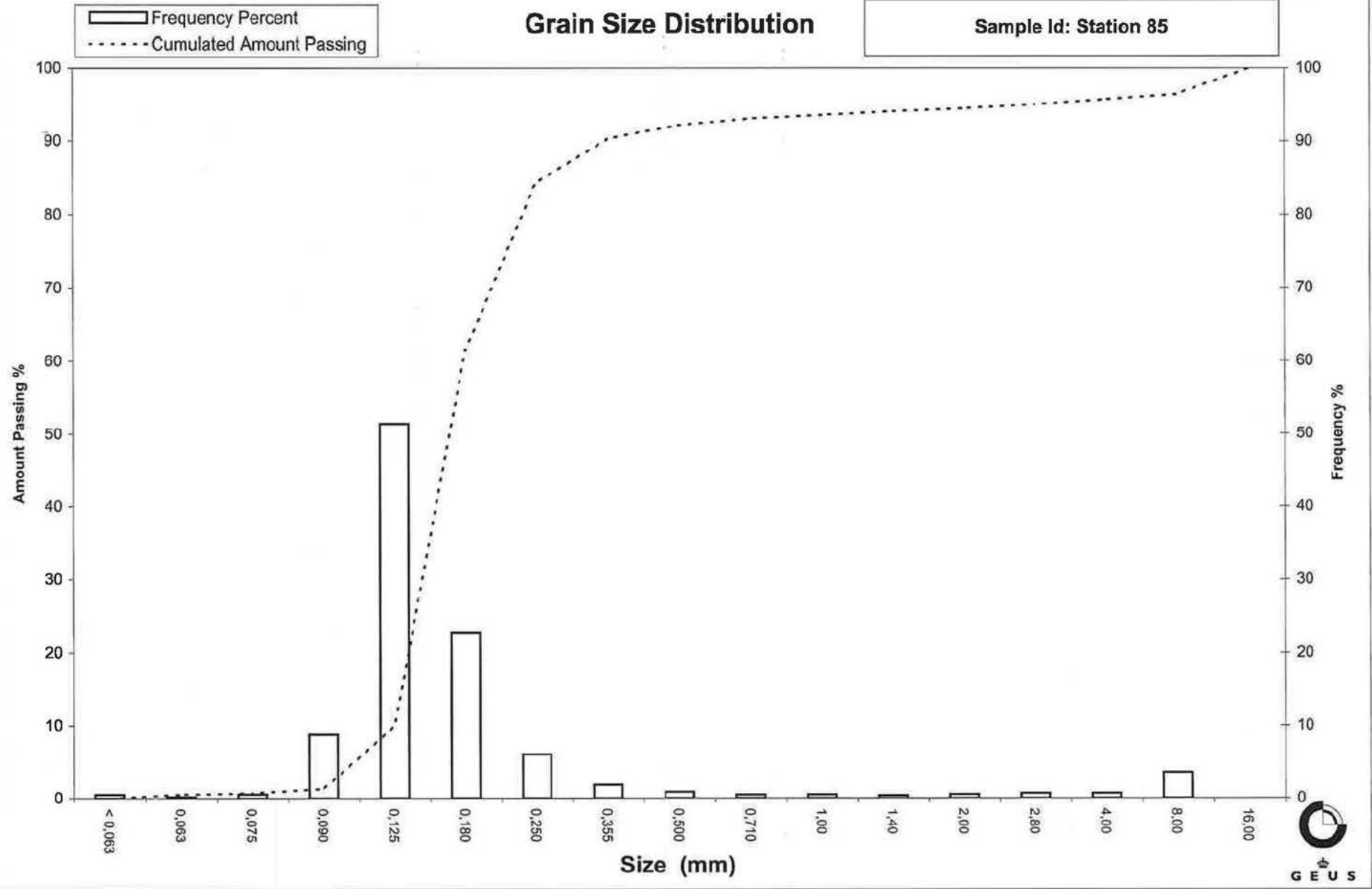
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 85



Grain Size Distribution

Geotechnical

Sample Id: Station 168
Lab. Id: 110012
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 104,11 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,01	0,01	99,99
2,00	-1,00	0,00	0,00	99,99
1,40	-0,49	0,04	0,04	99,95
1,00	0,00	0,22	0,21	99,74
0,710	0,49	0,26	0,25	99,49
0,500	1,00	0,44	0,42	99,07
0,355	1,49	2,55	2,45	96,62
0,250	2,00	14,11	13,55	83,07
0,180	2,47	29,01	27,86	55,20
0,125	3,00	41,66	40,02	15,19
0,090	3,47	13,01	12,50	2,69
0,075	3,74	1,26	1,21	1,48
0,063	3,99	0,44	0,42	1,06
< 0,063	> 3,99	1,10	1,06	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,06
Sand, fine (0,063 mm - 0,200 mm):	62,11
Sand, medium (0,2 mm - 0,6 mm):	36,11
Sand, coarse (0,6 mm - 2 mm):	0,72
Gravel (> 2 mm):	0,01
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,34	1,55
16%	84%	0,26	1,96
25%	75%	0,23	2,12
40%	60%	0,19	2,38
Median 50%	50%	0,17	2,53
75%	25%	0,14	2,85
84%	16%	0,13	2,99
90%	10%	0,11	3,18
95%	5%	0,10	3,37

Moments Statistics

Mean	2,49
Sorting	0,53
Skewness	-0,10
Kurtosis	1,03
Uniformity Coefficient	1,74

Size Classes and Percentiles are found by linear interpolation

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

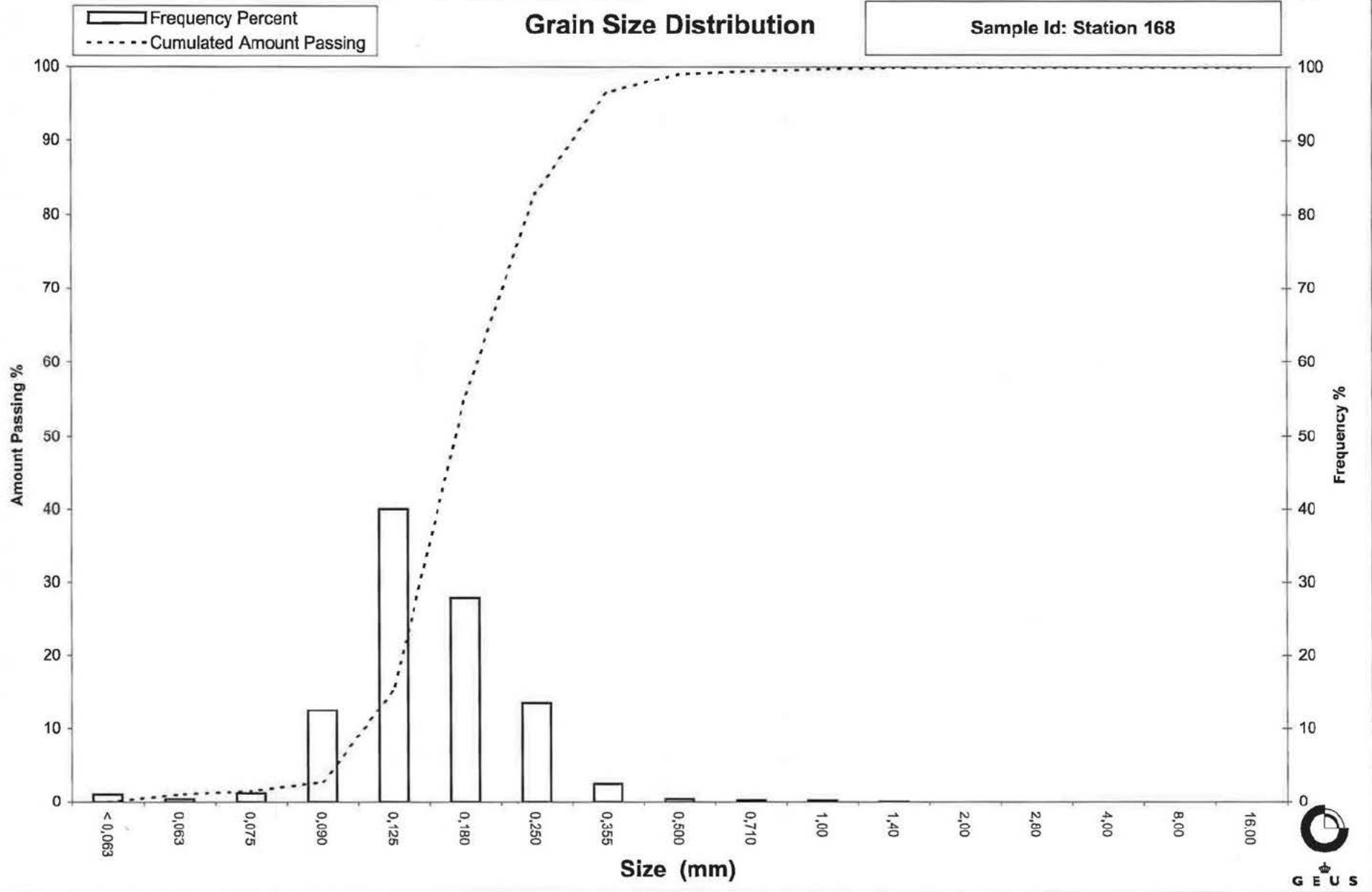
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 168



Grain Size Distribution

Geotechnical

Sample Id: Station 169
Lab. Id: 110013
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 103,93 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,00	0,00	100,00
1,40	-0,49	0,01	0,01	99,99
1,00	0,00	0,05	0,05	99,94
0,710	0,49	0,04	0,04	99,90
0,500	1,00	0,18	0,17	99,73
0,355	1,49	1,73	1,66	98,07
0,250	2,00	11,79	11,34	86,72
0,180	2,47	30,50	29,35	57,38
0,125	3,00	41,90	40,32	17,06
0,090	3,47	15,15	14,58	2,48
0,075	3,74	1,63	1,57	0,91
0,063	3,99	0,51	0,49	0,42
< 0,063	> 3,99	0,44	0,42	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,42
Sand, fine (0,063 mm - 0,200 mm):	65,34
Sand, medium (0,2 mm - 0,6 mm):	34,05
Sand, coarse (0,6 mm - 2 mm):	0,19
Gravel (> 2 mm):	0,00
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,33	1,61
16%	84%	0,24	2,04
25%	75%	0,22	2,17
40%	60%	0,19	2,42
Median 50%	50%	0,17	2,56
75%	25%	0,14	2,88
84%	16%	0,12	3,03
90%	10%	0,11	3,21
95%	5%	0,10	3,38

Moments Statistics

Mean	2,54
Sorting	0,52
Skewness	-0,06
Kurtosis	1,02
Uniformity Coefficient	1,72

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

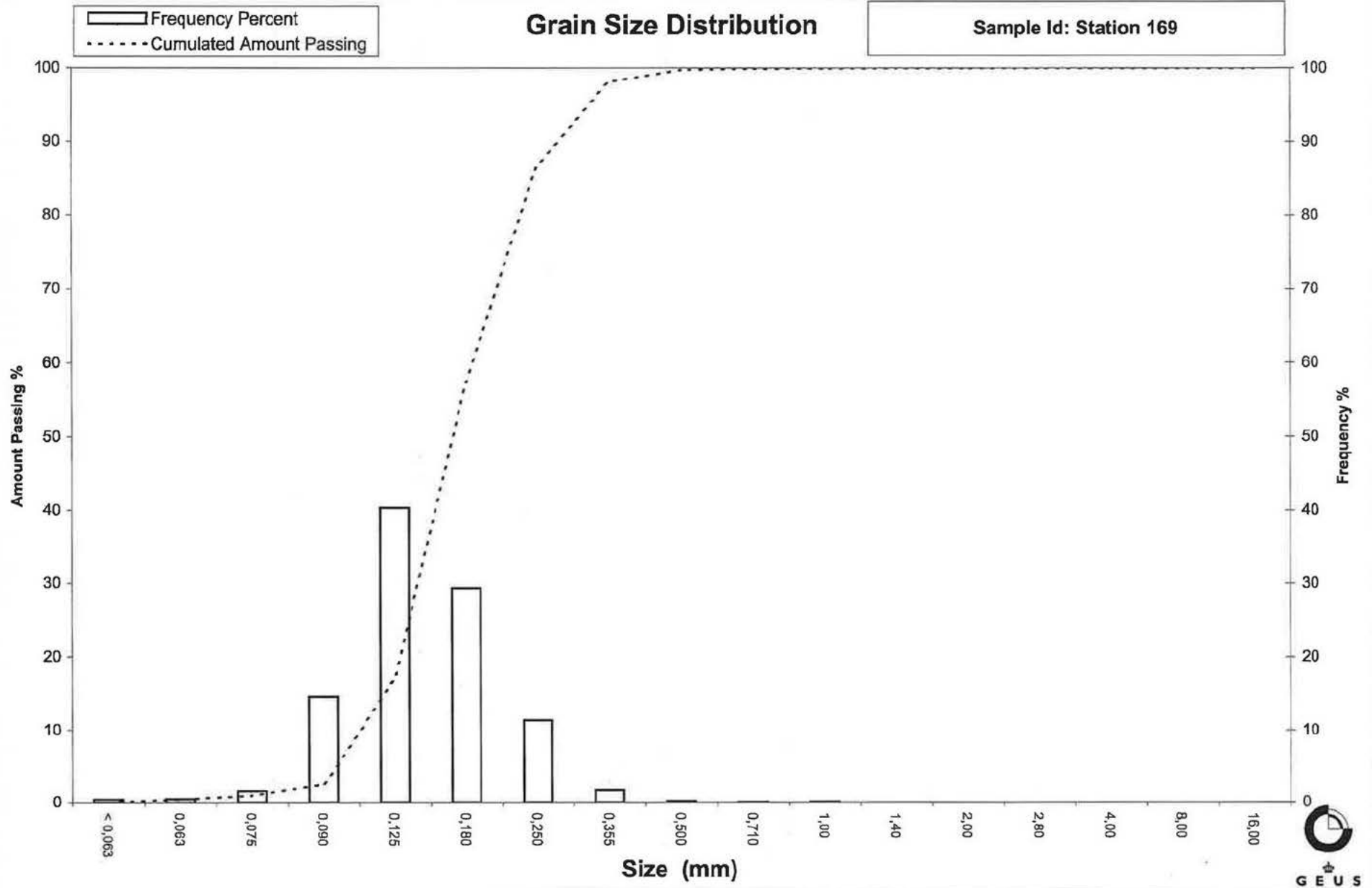
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 169



Grain Size Distribution

Geotechnical

Sample Id: Station 170
Lab. Id: 110014
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 109,12 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,02	0,02	99,98
1,40	-0,49	0,03	0,03	99,95
1,00	0,00	0,04	0,04	99,92
0,710	0,49	0,05	0,05	99,87
0,500	1,00	0,16	0,15	99,73
0,355	1,49	1,70	1,56	98,17
0,250	2,00	14,20	13,01	85,15
0,180	2,47	29,14	26,70	58,45
0,125	3,00	47,01	43,08	15,37
0,090	3,47	13,84	12,68	2,69
0,075	3,74	1,64	1,50	1,18
0,063	3,99	0,63	0,58	0,60
< 0,063	> 3,99	0,66	0,60	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,60
Sand, fine (0,063 mm - 0,200 mm):	65,47
Sand, medium (0,2 mm - 0,6 mm):	33,72
Sand, coarse (0,6 mm - 2 mm):	0,19
Gravel (> 2 mm):	0,02
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,33	1,60
16%	84%	0,25	2,02
25%	75%	0,22	2,16
40%	60%	0,18	2,44
Median 50%	50%	0,17	2,56
75%	25%	0,14	2,86
84%	16%	0,13	2,99
90%	10%	0,11	3,18
95%	5%	0,10	3,38

Moments Statistics

Mean	2,52
Sorting	0,51
Skewness	-0,10
Kurtosis	1,03
Uniformity Coefficient	1,67

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

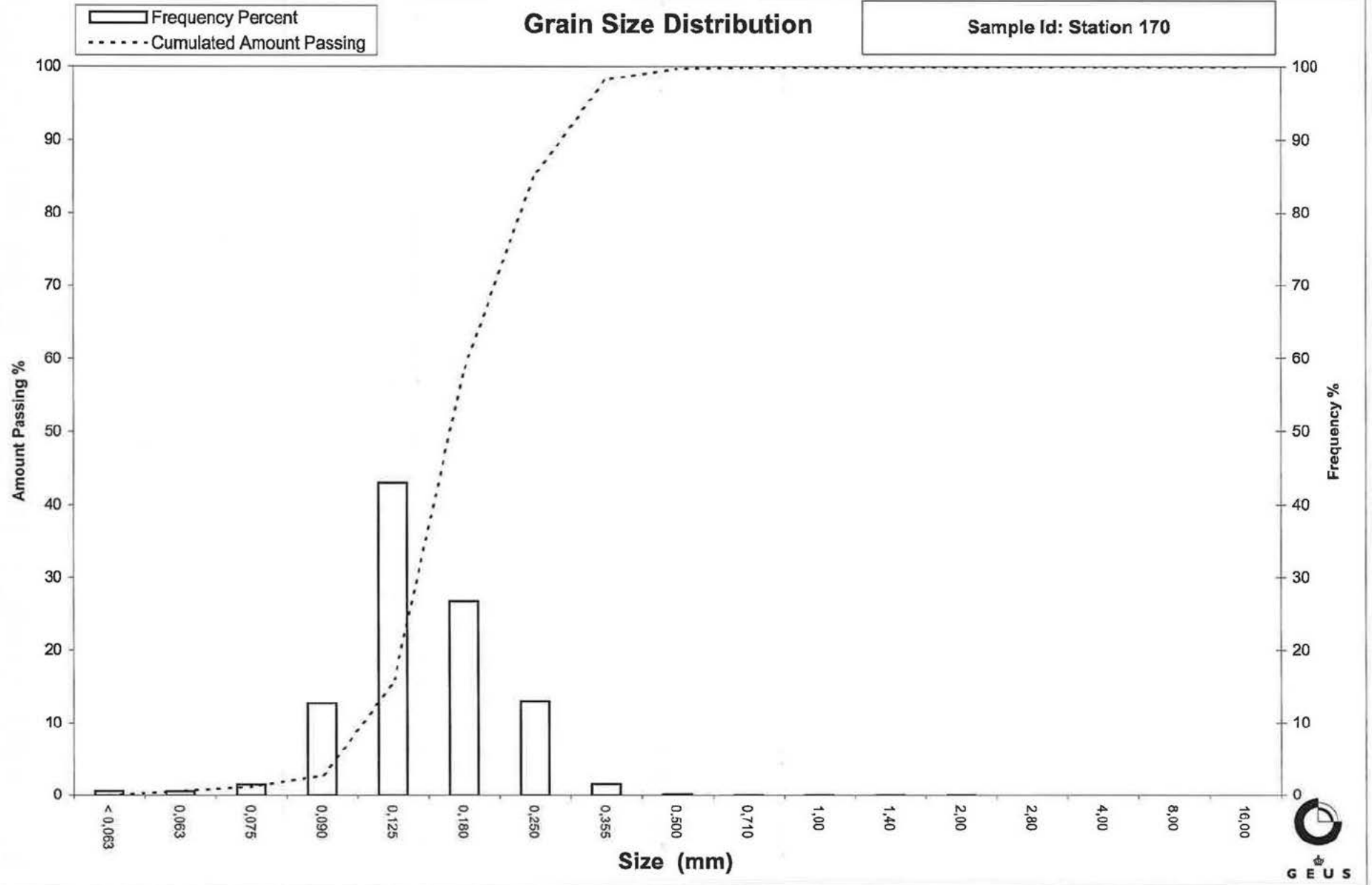
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Sample Id: Station 170



Grain Size Distribution

Geotechnical

Sample Id: Station 174
Lab. Id: 110015
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 105,33 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,09	0,09	99,91
2,80	-1,49	0,00	0,00	99,91
2,00	-1,00	0,02	0,02	99,90
1,40	-0,49	0,14	0,13	99,76
1,00	0,00	0,93	0,88	98,88
0,710	0,49	5,66	5,37	93,51
0,500	1,00	22,02	20,91	72,60
0,355	1,49	30,80	29,24	43,36
0,250	2,00	12,35	11,73	31,63
0,180	2,47	15,16	14,39	17,24
0,125	3,00	15,75	14,95	2,29
0,090	3,47	1,22	1,16	1,13
0,075	3,74	0,21	0,20	0,93
0,063	3,99	0,09	0,09	0,84
< 0,063	> 3,99	0,89	0,84	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,84
Sand, fine (0,063 mm - 0,200 mm):	20,51
Sand, medium (0,2 mm - 0,6 mm):	61,20
Sand, coarse (0,6 mm - 2 mm):	17,34
Gravel (> 2 mm):	0,10
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,79	0,34
16%	84%	0,61	0,70
25%	75%	0,52	0,93
40%	60%	0,44	1,19
Median 50%	50%	0,39	1,37
75%	25%	0,22	2,20
84%	16%	0,18	2,51
90%	10%	0,15	2,70
95%	5%	0,13	2,89

Moments Statistics

Mean	1,53
Sorting	0,84
Skewness	0,23
Kurtosis	0,82
Uniformity Coefficient	2,85

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the ½ phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

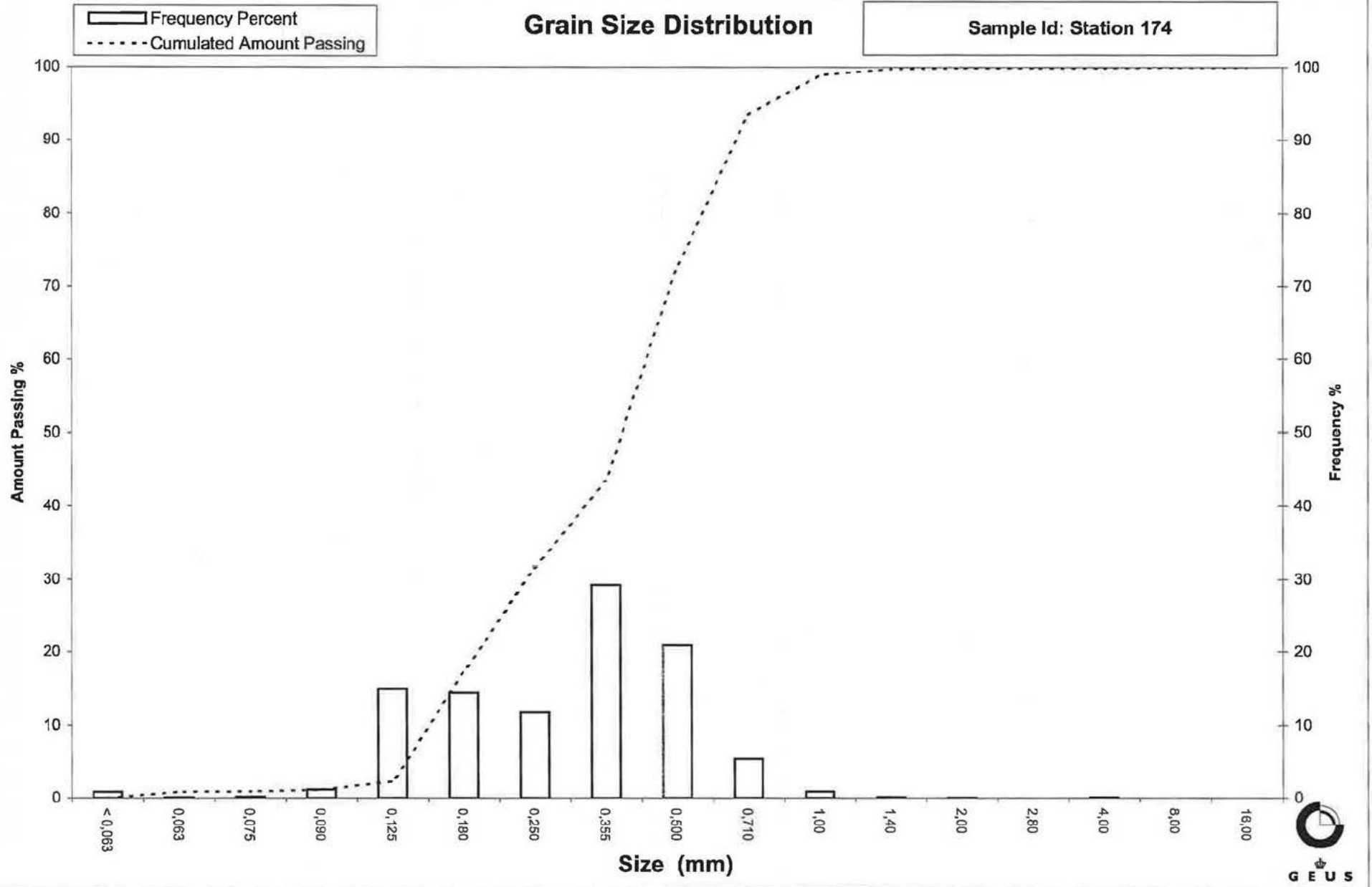
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 174



Grain Size Distribution

Geotechnical

Sample Id: Station 175
Lab. Id: 110016
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 101,32 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,00	0,00	100,00
1,40	-0,49	0,03	0,03	99,97
1,00	0,00	0,11	0,11	99,86
0,710	0,49	0,40	0,39	99,47
0,500	1,00	0,82	0,81	98,66
0,355	1,49	1,99	1,96	96,69
0,250	2,00	8,61	8,50	88,20
0,180	2,47	47,66	47,04	41,16
0,125	3,00	37,32	36,83	4,32
0,090	3,47	2,63	2,60	1,73
0,075	3,74	0,90	0,89	0,84
0,063	3,99	0,22	0,22	0,62
< 0,063	> 3,99	0,63	0,62	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,62
Sand, fine (0,063 mm - 0,200 mm):	53,97
Sand, medium (0,2 mm - 0,6 mm):	44,45
Sand, coarse (0,6 mm - 2 mm):	0,96
Gravel (> 2 mm):	0,00
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,33	1,58
16%	84%	0,24	2,04
25%	75%	0,23	2,12
40%	60%	0,21	2,27
Median 50%	50%	0,19	2,37
75%	25%	0,16	2,68
84%	16%	0,14	2,81
90%	10%	0,13	2,91
95%	5%	0,13	2,99

Moments Statistics

Mean	2,41
Sorting	0,41
Skewness	0,01
Kurtosis	1,02
Uniformity Coefficient	1,56

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

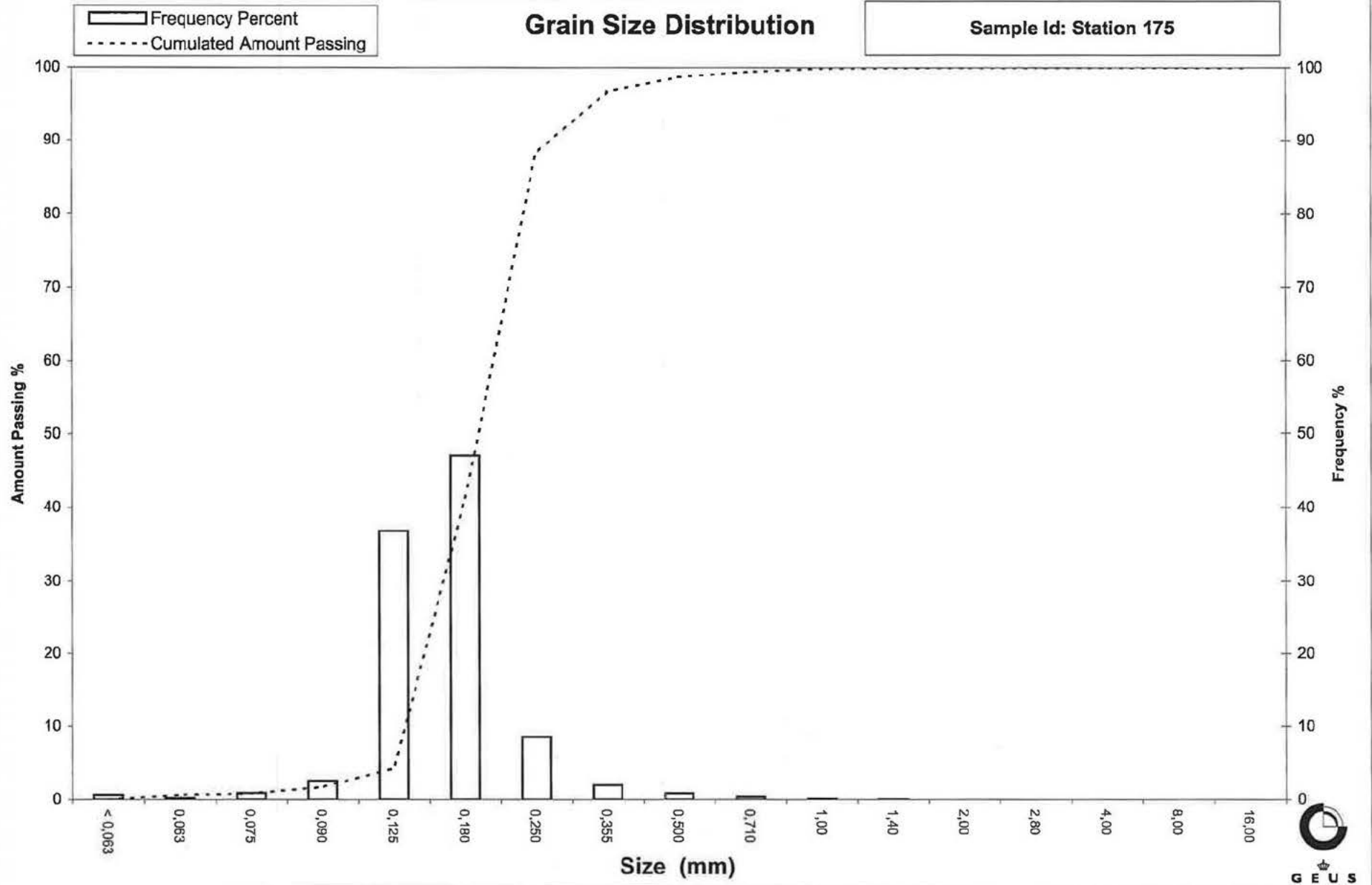
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Sample Id: Station 175



Grain Size Distribution

Geotechnical

Sample Id: Station 176
Lab. Id: 110017
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 104,43 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,04	0,04	99,96
2,00	-1,00	0,05	0,05	99,91
1,40	-0,49	0,06	0,06	99,86
1,00	0,00	0,18	0,17	99,68
0,710	0,49	0,30	0,29	99,40
0,500	1,00	0,87	0,83	98,56
0,355	1,49	1,50	1,44	97,13
0,250	2,00	4,87	4,66	92,46
0,180	2,47	49,31	47,22	45,25
0,125	3,00	41,87	40,09	5,15
0,090	3,47	3,52	3,37	1,78
0,075	3,74	0,63	0,60	1,18
0,063	3,99	0,22	0,21	0,97
< 0,063	> 3,99	1,01	0,97	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,97
Sand, fine (0,063 mm - 0,200 mm):	57,77
Sand, medium (0,2 mm - 0,6 mm):	40,22
Sand, coarse (0,6 mm - 2 mm):	0,95
Gravel (> 2 mm):	0,09
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,31	1,70
16%	84%	0,24	2,07
25%	75%	0,22	2,16
40%	60%	0,20	2,31
Median 50%	50%	0,19	2,42
75%	25%	0,15	2,72
84%	16%	0,14	2,84
90%	10%	0,13	2,93
95%	5%	0,12	3,02

Moments Statistics

Mean	2,44
Sorting	0,39
Skewness	0,01
Kurtosis	0,97
Uniformity Coefficient	1,53

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

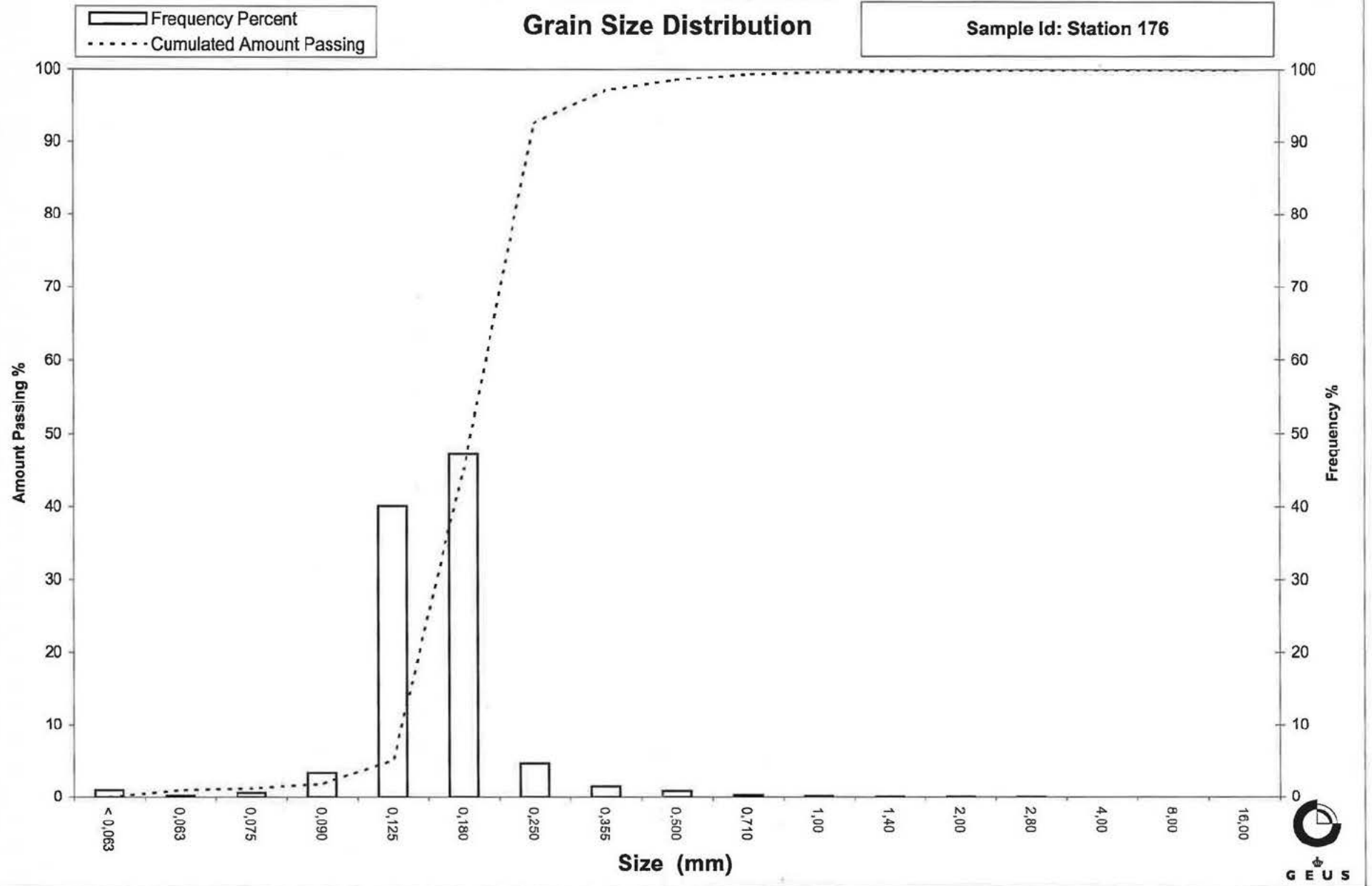
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Sample Id: Station 176



Grain Size Distribution

Geotechnical

Sample Id: Station 180
Lab. Id: 110018
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 104,02 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,24	0,23	99,77
2,80	-1,49	0,07	0,07	99,70
2,00	-1,00	0,08	0,08	99,63
1,40	-0,49	0,09	0,09	99,54
1,00	0,00	0,17	0,16	99,38
0,710	0,49	0,22	0,21	99,16
0,500	1,00	0,56	0,54	98,63
0,355	1,49	2,42	2,33	96,30
0,250	2,00	10,17	9,78	86,52
0,180	2,47	26,45	25,43	61,09
0,125	3,00	48,58	46,70	14,39
0,090	3,47	11,87	11,41	2,98
0,075	3,74	1,14	1,10	1,88
0,063	3,99	0,45	0,43	1,45
< 0,063	> 3,99	1,51	1,45	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,45
Sand, fine (0,063 mm - 0,200 mm):	66,91
Sand, medium (0,2 mm - 0,6 mm):	30,52
Sand, coarse (0,6 mm - 2 mm):	0,74
Gravel (> 2 mm):	0,37
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,34	1,55
16%	84%	0,24	2,04
25%	75%	0,22	2,20
40%	60%	0,18	2,48
Median 50%	50%	0,17	2,58
75%	25%	0,14	2,86
84%	16%	0,13	2,98
90%	10%	0,11	3,16
95%	5%	0,10	3,38

Moments Statistics

Mean	2,53
Sorting	0,51
Skewness	-0,14
Kurtosis	1,12
Uniformity Coefficient	1,60

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

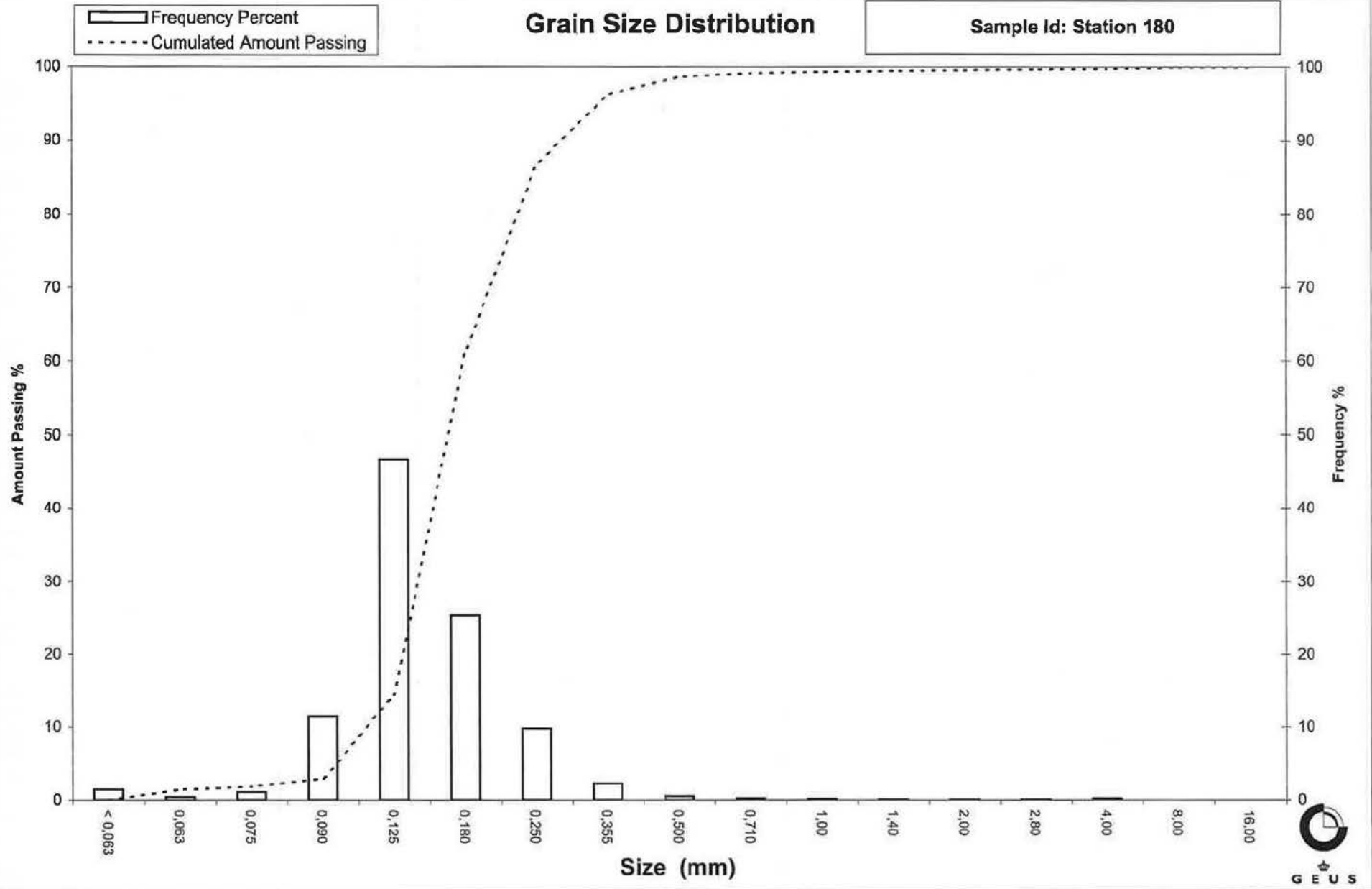
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 180



Grain Size Distribution

Geotechnical

Sample Id: Station 181
Lab. Id: 110019
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 104,79 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	
Sieve Analysis	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,11	0,10	99,90
	2,80	-1,49	0,07	0,07	99,83
	2,00	-1,00	0,10	0,10	99,73
	1,40	-0,49	0,06	0,06	99,68
	1,00	0,00	0,48	0,46	99,22
	0,710	0,49	0,36	0,34	98,87
	0,500	1,00	0,60	0,57	98,30
	0,355	1,49	2,21	2,11	96,19
	0,250	2,00	10,03	9,57	86,62
	0,180	2,47	28,92	27,60	59,02
	0,125	3,00	49,36	47,10	11,92
	0,090	3,47	9,71	9,27	2,65
	0,075	3,74	1,12	1,07	1,58
	0,063	3,99	0,49	0,47	1,12
	< 0,063	> 3,99	1,17	1,12	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,12
Sand, fine (0,063 mm - 0,200 mm):	65,79
Sand, medium (0,2 mm - 0,6 mm):	31,67
Sand, coarse (0,6 mm - 2 mm):	1,16
Gravel (> 2 mm):	0,27
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,34	1,55
16%	84%	0,24	2,04
25%	75%	0,22	2,18
40%	60%	0,18	2,45
Median 50%	50%	0,17	2,56
75%	25%	0,14	2,83
84%	16%	0,13	2,95
90%	10%	0,12	3,09
95%	5%	0,10	3,34

Moments Statistics

Mean	2,52
Sorting	0,50
Skewness	-0,14
Kurtosis	1,12
Uniformity Coefficient	1,55

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the ½ phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

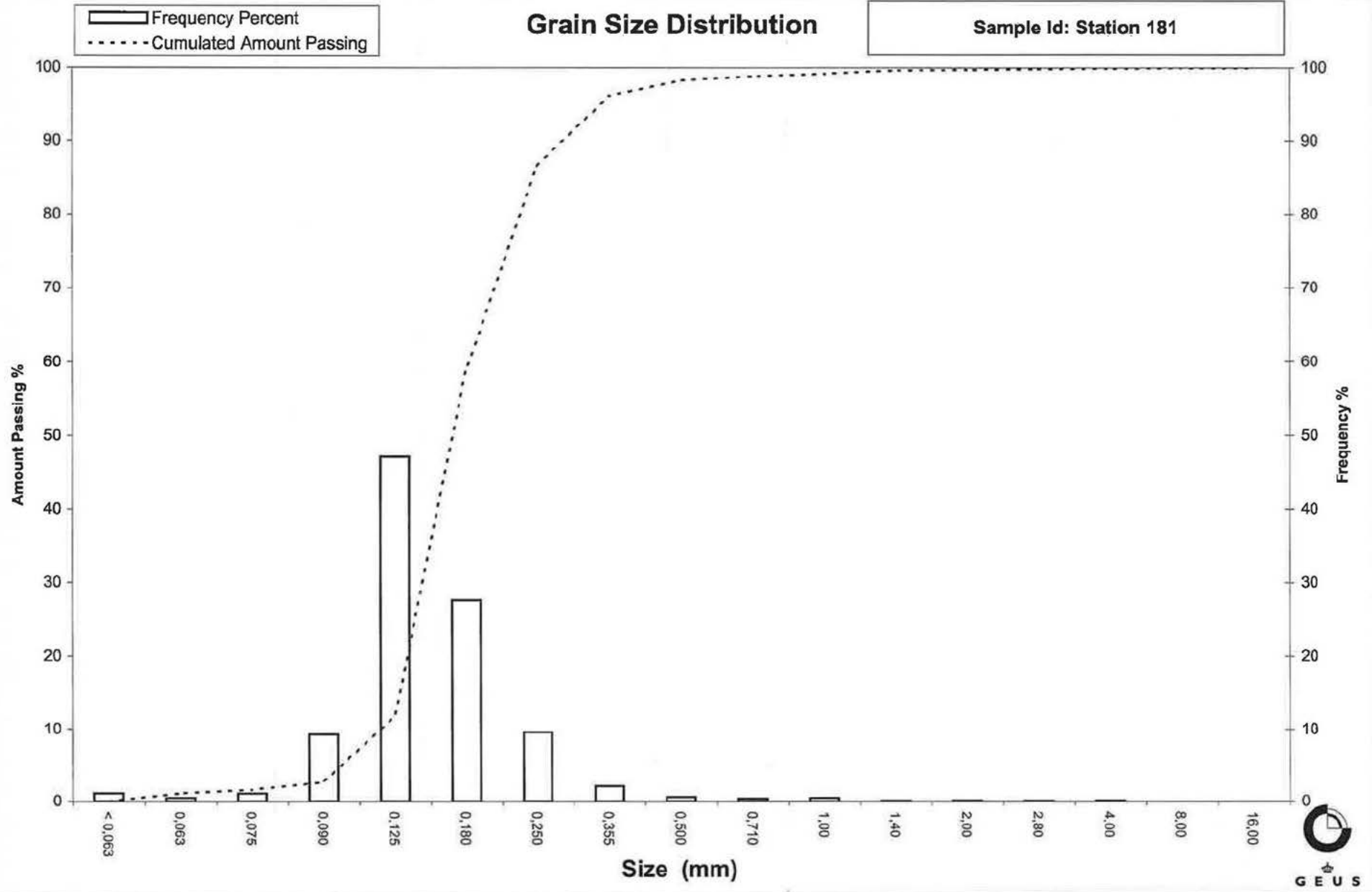
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 181



Grain Size Distribution

Geotechnical

Sample Id: Station 182
Lab. Id: 110020
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 120,43 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,22	0,18	99,82
2,80	-1,49	0,06	0,05	99,77
2,00	-1,00	0,09	0,07	99,69
1,40	-0,49	0,15	0,12	99,57
1,00	0,00	0,31	0,26	99,31
0,710	0,49	0,46	0,38	98,93
0,500	1,00	0,67	0,56	98,37
0,355	1,49	2,89	2,40	95,97
0,250	2,00	14,04	11,66	84,31
0,180	2,47	36,15	30,02	54,30
0,125	3,00	52,01	43,19	11,11
0,090	3,47	10,98	9,12	1,99
0,075	3,74	1,29	1,07	0,92
0,063	3,99	0,42	0,35	0,57
< 0,063	> 3,99	0,69	0,57	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,57
Sand, fine (0,063 mm - 0,200 mm):	62,30
Sand, medium (0,2 mm - 0,6 mm):	35,76
Sand, coarse (0,6 mm - 2 mm):	1,06
Gravel (> 2 mm):	0,31
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,35	1,53
16%	84%	0,25	2,00
25%	75%	0,23	2,13
40%	60%	0,19	2,37
Median 50%	50%	0,17	2,52
75%	25%	0,14	2,81
84%	16%	0,13	2,93
90%	10%	0,12	3,05
95%	5%	0,10	3,30

Moments Statistics

Mean	2,48
Sorting	0,50
Skewness	-0,11
Kurtosis	1,07
Uniformity Coefficient	1,60

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the ½ phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

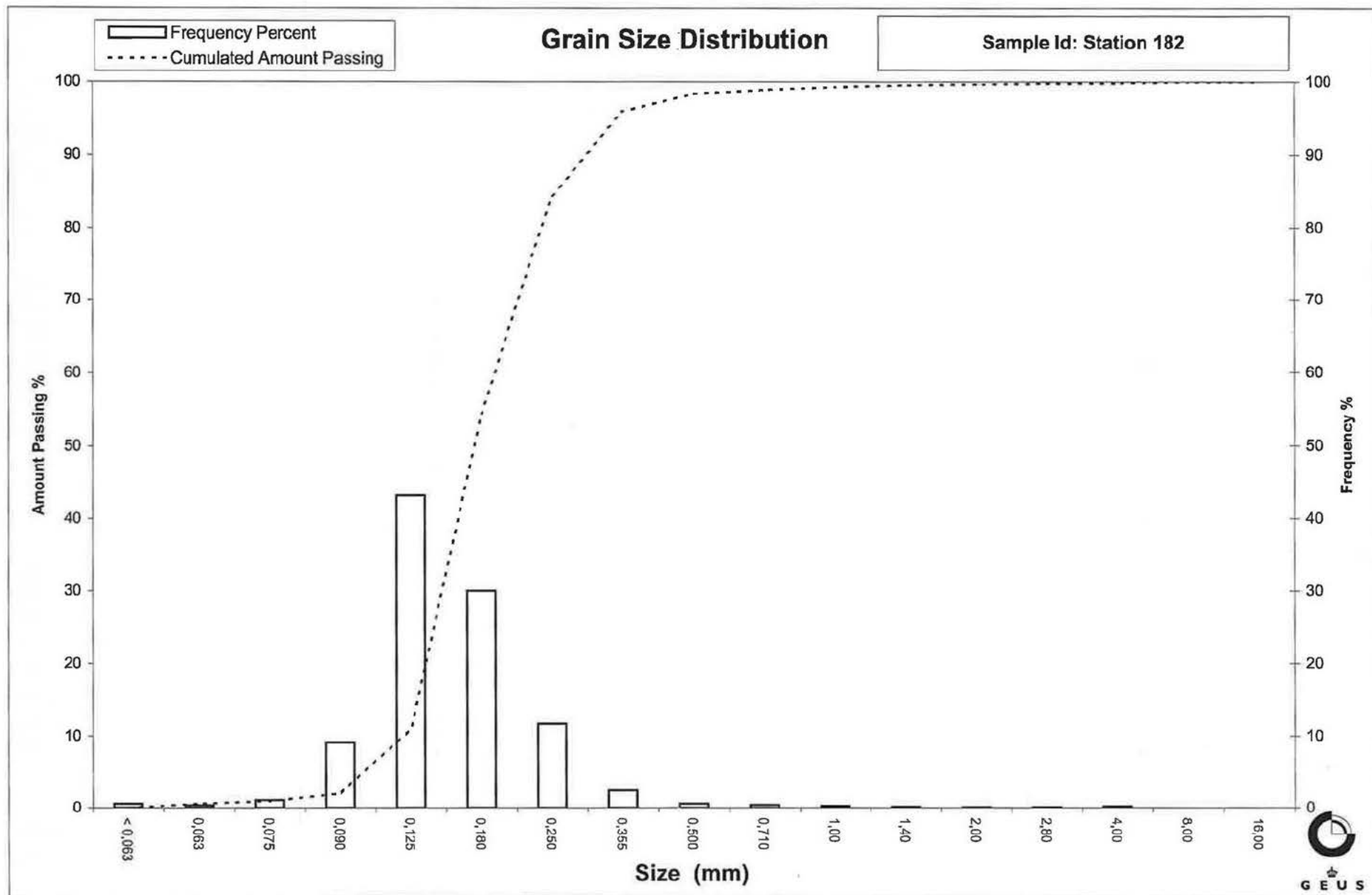
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 186
Lab. Id: 110021
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 203,39 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,04	0,02	99,98
2,80	-1,49	0,14	0,07	99,91
2,00	-1,00	0,53	0,26	99,65
1,40	-0,49	25,16	12,37	87,28
1,00	0,00	71,77	35,29	51,99
0,710	0,49	39,33	19,34	32,66
0,500	1,00	35,51	17,46	15,20
0,355	1,49	23,94	11,77	3,43
0,250	2,00	4,64	2,28	1,15
0,180	2,47	0,75	0,37	0,78
0,125	3,00	0,41	0,20	0,58
0,090	3,47	0,18	0,09	0,49
0,075	3,74	0,10	0,05	0,44
0,063	3,99	0,05	0,02	0,41
< 0,063	> 3,99	0,84	0,41	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,41
Sand, fine (0,063 mm - 0,200 mm):	0,47
Sand, medium (0,2 mm - 0,6 mm):	22,63
Sand, coarse (0,6 mm - 2 mm):	76,14
Gravel (> 2 mm):	0,35
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,77	-0,83
16%	84%	1,36	-0,45
25%	75%	1,26	-0,33
40%	60%	1,09	-0,13
Median 50%	50%	0,97	0,04
75%	25%	0,62	0,69
84%	16%	0,51	0,97
90%	10%	0,44	1,20
95%	5%	0,37	1,42

Moments Statistics

Mean	0,19
Sorting	0,69
Skewness	0,27
Kurtosis	0,89
Uniformity Coefficient	2,50

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

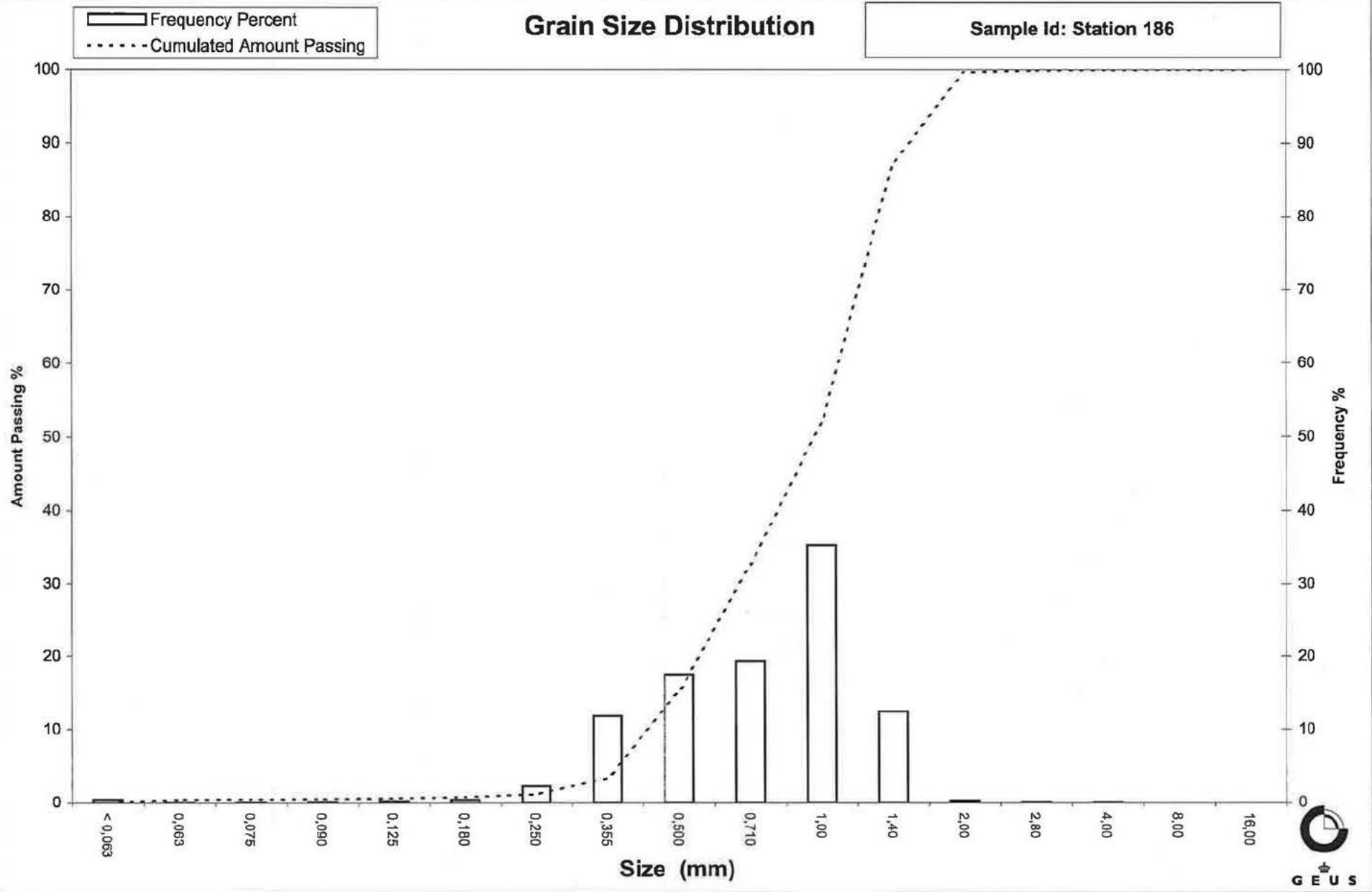
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Sample Id: Station 186



Grain Size Distribution

Geotechnical

Sample Id: Station 187
Lab. Id: 110022
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 203,09 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated
	mm	Φ	g	%	amount passing
Sieve Analysis	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,00	0,00	100,00
	2,80	-1,49	0,05	0,02	99,98
	2,00	-1,00	0,43	0,21	99,76
	1,40	-0,49	12,88	6,34	93,42
	1,00	0,00	48,50	23,88	69,54
	0,710	0,49	37,97	18,70	50,84
	0,500	1,00	48,01	23,64	27,20
	0,355	1,49	41,59	20,48	6,73
	0,250	2,00	10,01	4,93	1,80
	0,180	2,47	1,52	0,75	1,05
	0,125	3,00	0,61	0,30	0,75
	0,090	3,47	0,21	0,10	0,65
	0,075	3,74	0,09	0,04	0,60
	0,063	3,99	0,03	0,01	0,59
	< 0,063	> 3,99	1,19	0,59	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,59
Sand, fine (0,063 mm - 0,200 mm):	0,68
Sand, medium (0,2 mm - 0,6 mm):	37,20
Sand, coarse (0,6 mm - 2 mm):	61,30
Gravel (> 2 mm):	0,24
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,55	-0,63
16%	84%	1,24	-0,31
25%	75%	1,09	-0,13
40%	60%	0,85	0,23
Median 50%	50%	0,70	0,51
75%	25%	0,48	1,05
84%	16%	0,42	1,25
90%	10%	0,38	1,40
95%	5%	0,32	1,65

Moments Statistics

Mean	0,48
Sorting	0,74
Skewness	-0,03
Kurtosis	0,80
Uniformity Coefficient	2,25

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

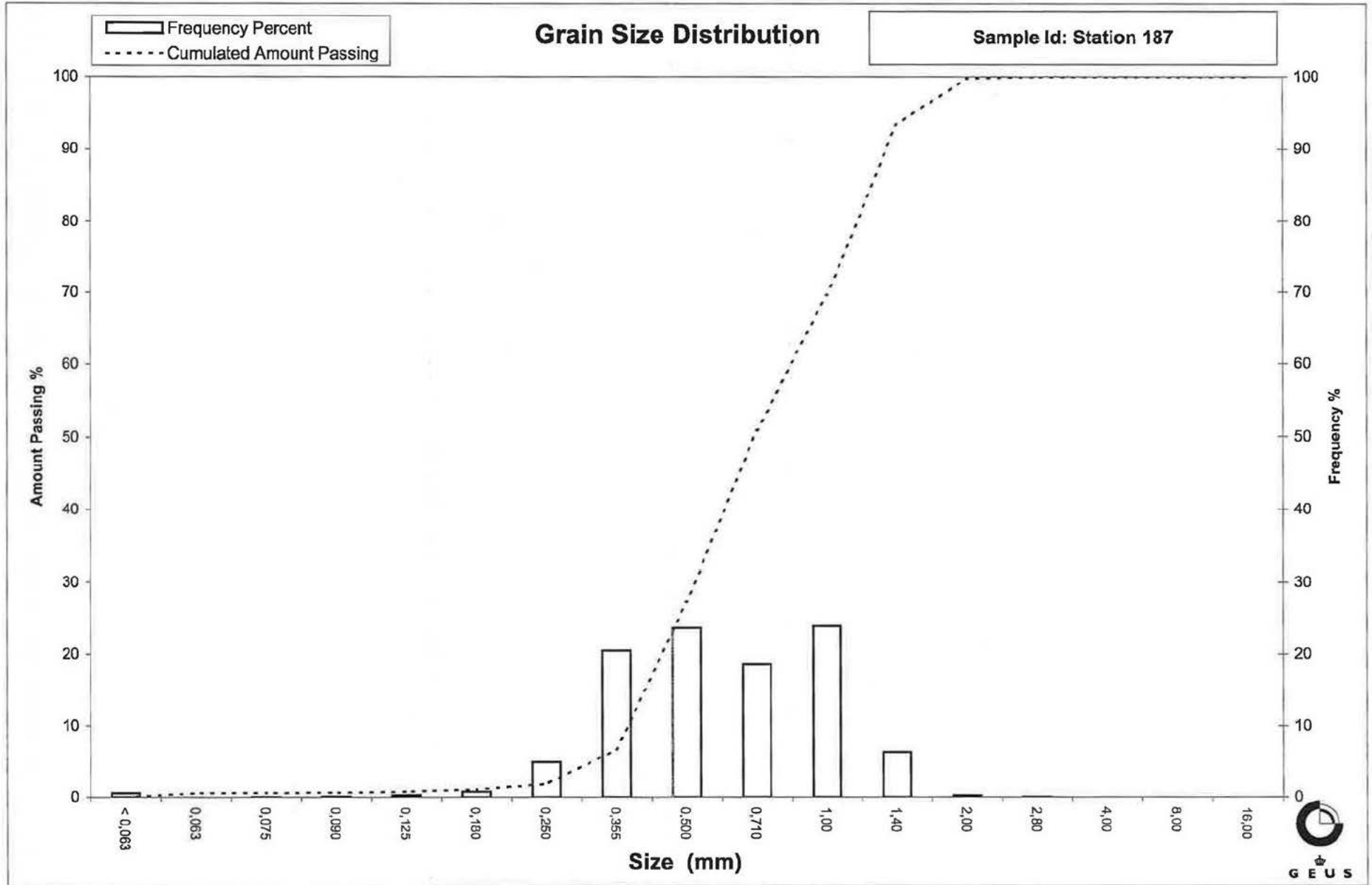
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 188
Lab. Id: 110023
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 204,46 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,08	0,04	99,96
2,80	-1,49	0,00	0,00	99,96
2,00	-1,00	0,24	0,12	99,84
1,40	-0,49	8,02	3,92	95,92
1,00	0,00	43,16	21,11	74,81
0,710	0,49	37,37	18,28	56,53
0,500	1,00	48,89	23,91	32,62
0,355	1,49	46,80	22,89	9,73
0,250	2,00	14,25	6,97	2,76
0,180	2,47	2,61	1,28	1,49
0,125	3,00	1,07	0,52	0,96
0,090	3,47	0,46	0,22	0,74
0,075	3,74	0,13	0,06	0,67
0,063	3,99	0,06	0,03	0,65
< 0,063	> 3,99	1,32	0,65	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,65
Sand, fine (0,063 mm - 0,200 mm):	1,21
Sand, medium (0,2 mm - 0,6 mm):	42,16
Sand, coarse (0,6 mm - 2 mm):	55,83
Gravel (> 2 mm):	0,16
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,38	-0,47
16%	84%	1,17	-0,23
25%	75%	1,00	-0,01
40%	60%	0,76	0,39
Median 50%	50%	0,65	0,62
75%	25%	0,45	1,15
84%	16%	0,39	1,34
90%	10%	0,36	1,49
95%	5%	0,28	1,82

Moments Statistics

Mean	0,58
Sorting	0,74
Skewness	-0,01
Kurtosis	0,81
Uniformity Coefficient	2,14

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

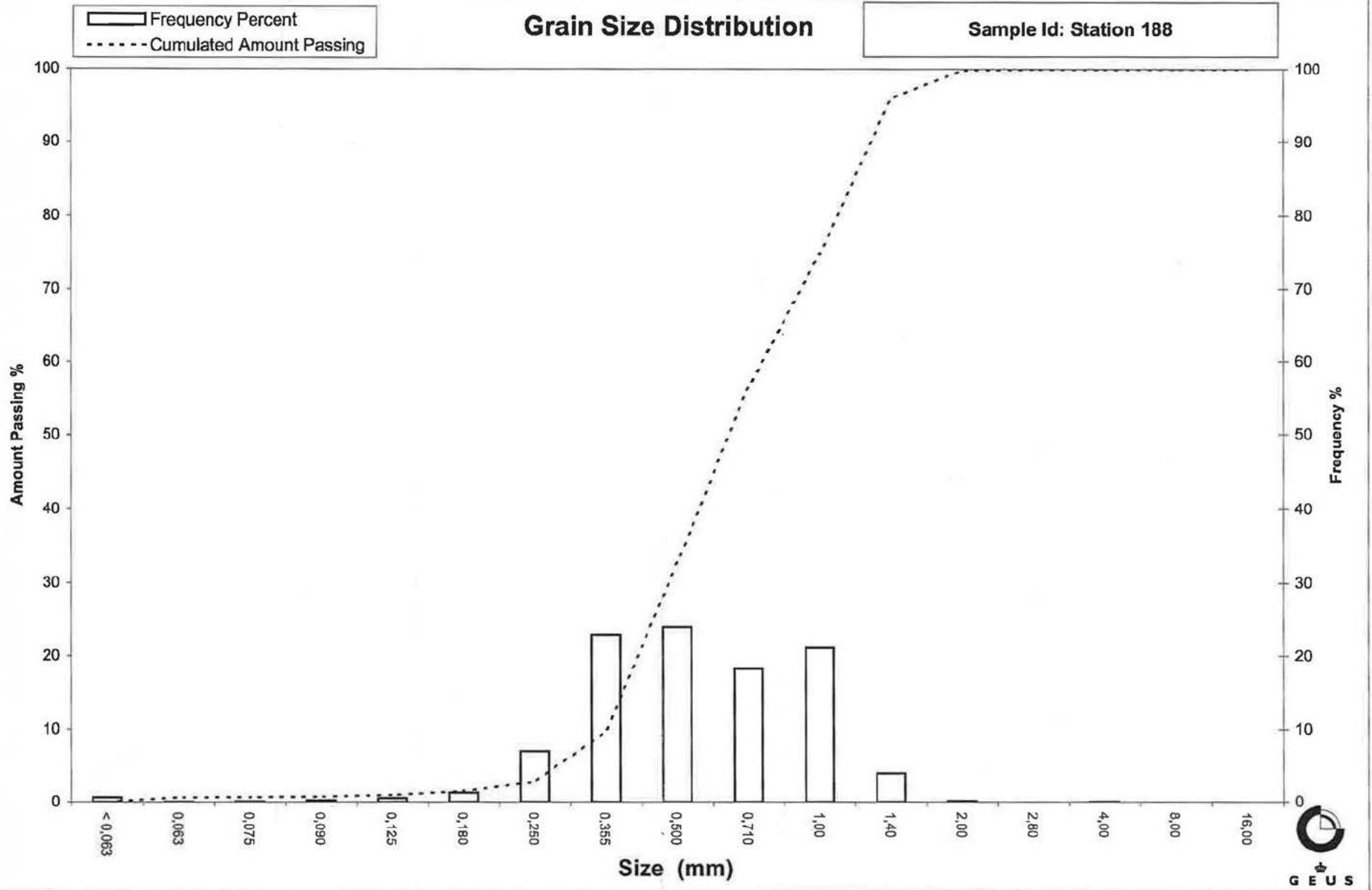
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Sample Id: Station 188



Grain Size Distribution

Geotechnical

Sample Id: Station 192
Lab. Id: 110024
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 100,43 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,00	0,00	100,00
1,40	-0,49	0,07	0,07	99,93
1,00	0,00	0,24	0,24	99,69
0,710	0,49	0,62	0,62	99,07
0,500	1,00	1,58	1,57	97,50
0,355	1,49	4,72	4,70	92,80
0,250	2,00	16,02	15,95	76,85
0,180	2,47	36,91	36,75	40,10
0,125	3,00	35,89	35,74	4,36
0,090	3,47	3,21	3,20	1,16
0,075	3,74	0,22	0,22	0,95
0,063	3,99	0,12	0,12	0,83
< 0,063	> 3,99	0,83	0,83	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,83
Sand, fine (0,063 mm - 0,200 mm):	49,77
Sand, medium (0,2 mm - 0,6 mm):	47,65
Sand, coarse (0,6 mm - 2 mm):	1,75
Gravel (> 2 mm):	0,00
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,42	1,24
16%	84%	0,30	1,75
25%	75%	0,25	2,02
40%	60%	0,22	2,20
Median 50%	50%	0,20	2,33
75%	25%	0,16	2,67
84%	16%	0,14	2,81
90%	10%	0,13	2,90
95%	5%	0,13	2,99

Moments Statistics

Mean	2,30
Sorting	0,53
Skewness	-0,17
Kurtosis	1,10
Uniformity Coefficient	1,63

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the ½ phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

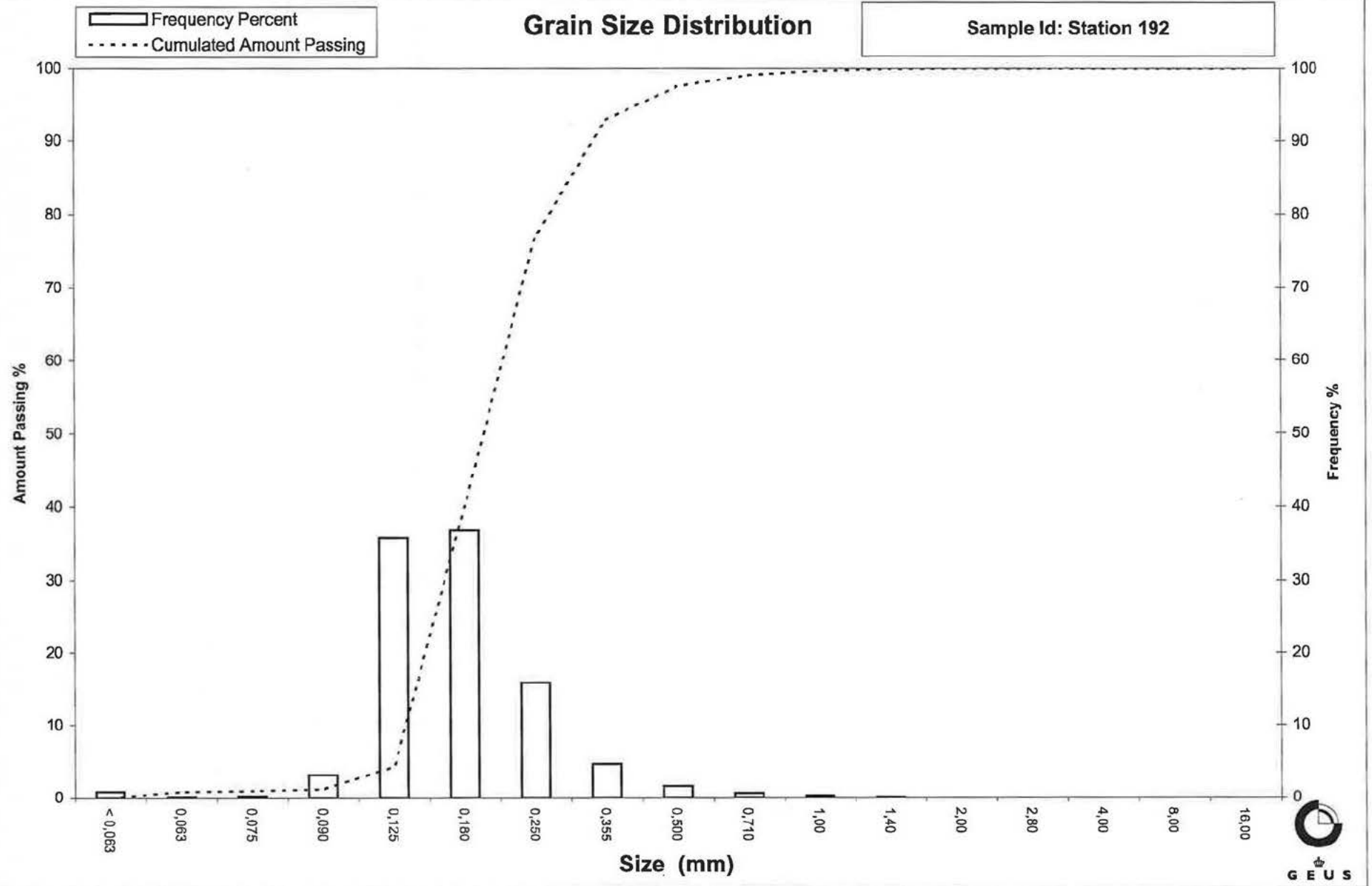
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 192



Grain Size Distribution

Geotechnical

Sample Id: Station 193
Lab. Id: 110025
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat < 2mm



Total Weight 104,06 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,02	0,02	99,98
2,00	-1,00	0,00	0,00	99,98
1,40	-0,49	0,03	0,03	99,95
1,00	0,00	0,31	0,30	99,65
0,710	0,49	1,41	1,35	98,30
0,500	1,00	2,72	2,61	95,69
0,355	1,49	7,36	7,07	88,61
0,250	2,00	24,14	23,20	65,41
0,180	2,47	41,13	39,53	25,89
0,125	3,00	24,21	23,27	2,62
0,090	3,47	1,87	1,80	0,83
0,075	3,74	0,17	0,16	0,66
0,063	3,99	0,03	0,03	0,63
< 0,063	> 3,99	0,66	0,63	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,63
Sand, fine (0,063 mm - 0,200 mm):	36,55
Sand, medium (0,2 mm - 0,6 mm):	59,75
Sand, coarse (0,6 mm - 2 mm):	3,05
Gravel (> 2 mm):	0,02
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,49	1,04
16%	84%	0,33	1,58
25%	75%	0,29	1,77
40%	60%	0,24	2,06
Median 50%	50%	0,22	2,17
75%	25%	0,18	2,49
84%	16%	0,16	2,67
90%	10%	0,14	2,81
95%	5%	0,13	2,94

Moments Statistics

Mean	2,14
Sorting	0,56
Skewness	-0,13
Kurtosis	1,08
Uniformity Coefficient	1,69

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the ½ phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

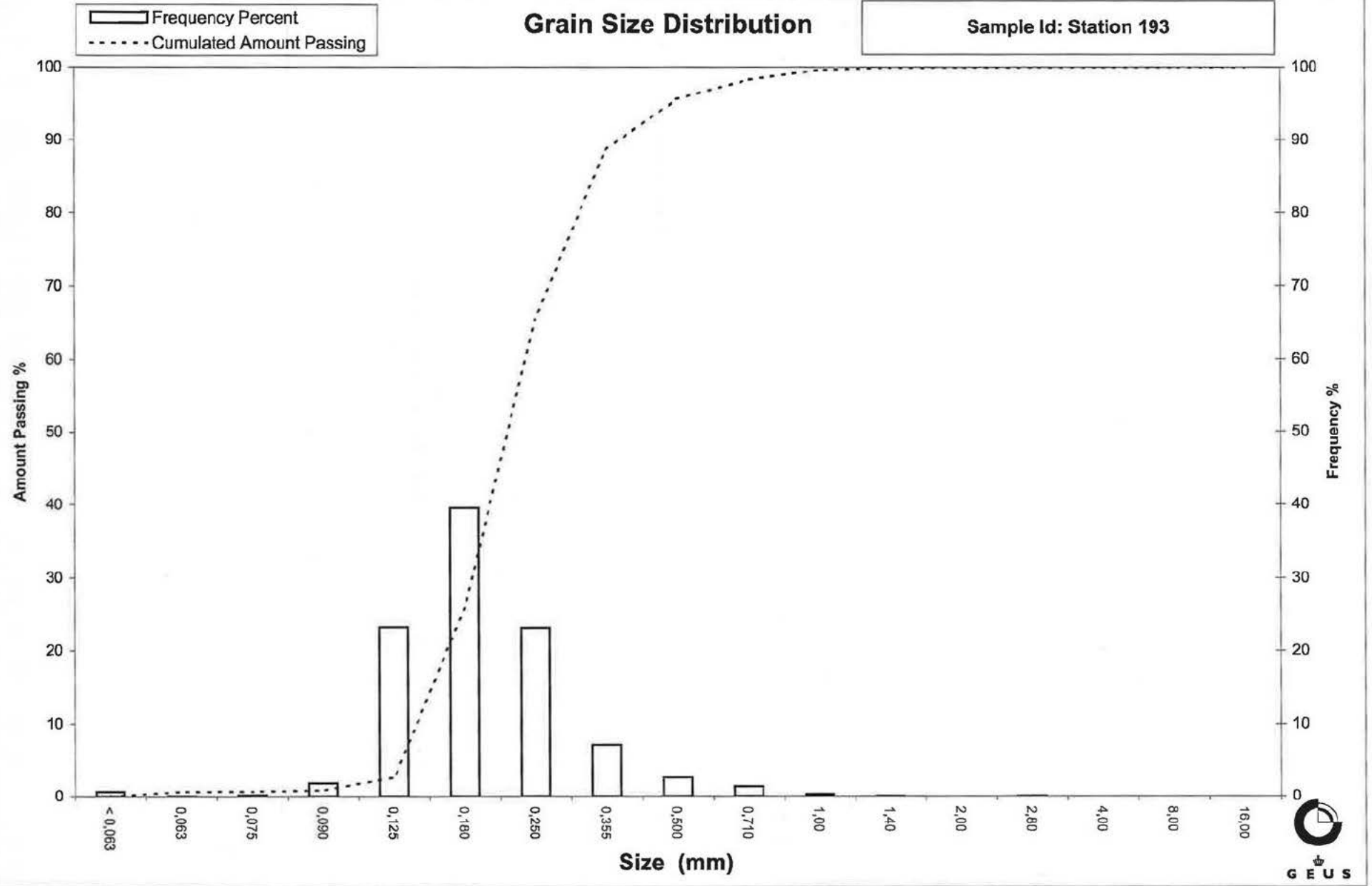
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 193



Grain Size Distribution

Geotechnical

Sample Id: Station 194
Lab. Id: 110026
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 104,04 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,04	0,04	99,96
2,00	-1,00	0,03	0,03	99,93
1,40	-0,49	0,18	0,17	99,76
1,00	0,00	0,31	0,30	99,46
0,710	0,49	0,71	0,68	98,78
0,500	1,00	4,89	4,70	94,08
0,355	1,49	22,34	21,47	72,61
0,250	2,00	36,52	35,10	37,50
0,180	2,47	34,09	32,77	4,74
0,125	3,00	3,56	3,42	1,32
0,090	3,47	0,34	0,33	0,99
0,075	3,74	0,13	0,12	0,87
0,063	3,99	0,04	0,04	0,83
< 0,063	> 3,99	0,86	0,83	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,83
Sand, fine (0,063 mm - 0,200 mm):	13,27
Sand, medium (0,2 mm - 0,6 mm):	82,22
Sand, coarse (0,6 mm - 2 mm):	3,62
Gravel (> 2 mm):	0,07
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,54	0,89
16%	84%	0,43	1,21
25%	75%	0,37	1,43
40%	60%	0,32	1,66
Median 50%	50%	0,29	1,80
75%	25%	0,22	2,16
84%	16%	0,20	2,29
90%	10%	0,19	2,39
95%	5%	0,18	2,47

Moments Statistics

Mean	1,77
Sorting	0,51
Skewness	-0,12
Kurtosis	0,89
Uniformity Coefficient	1,66

Size Classes and Percentiles are found by linear interpolation

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

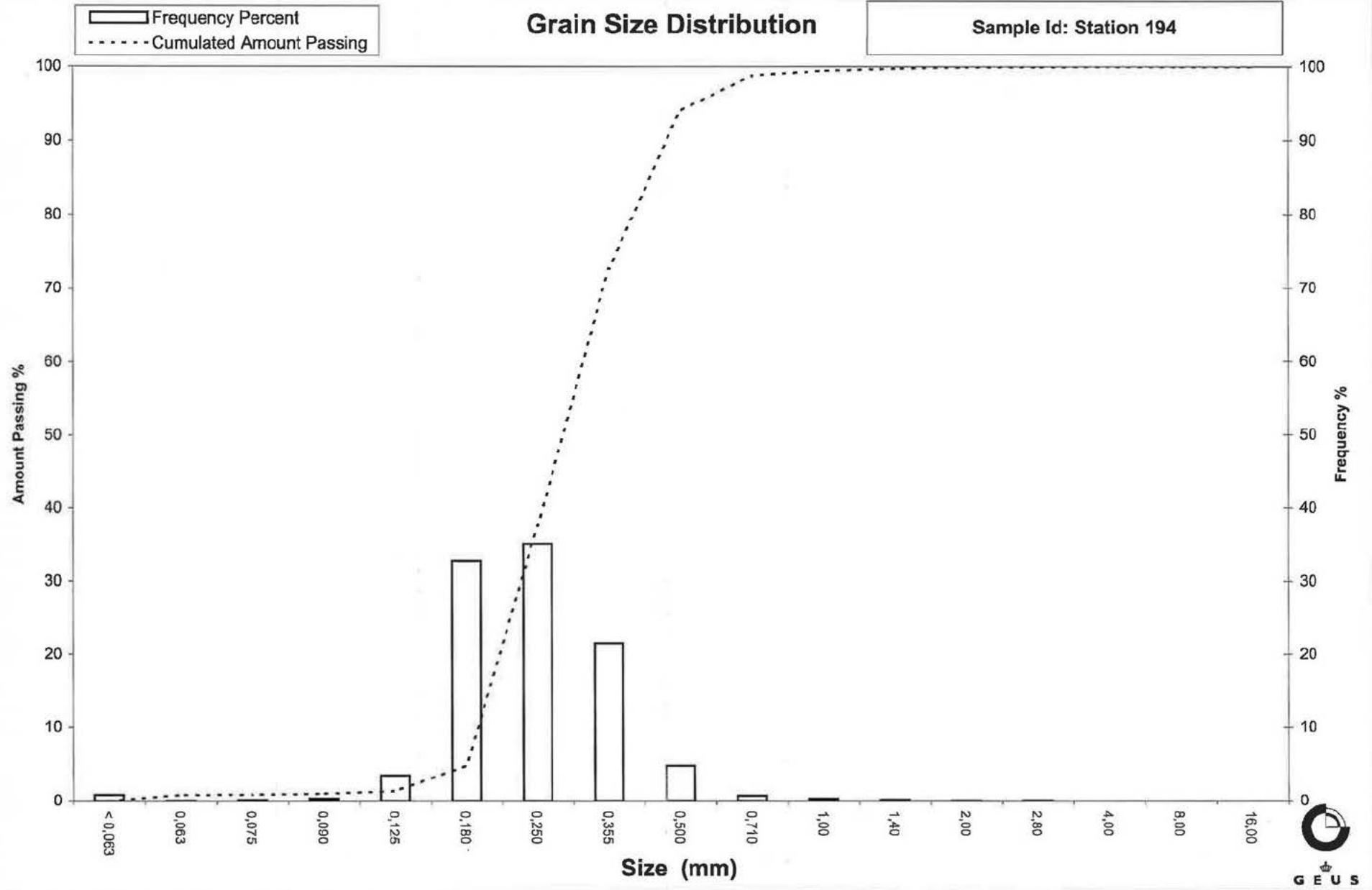
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 194



Grain Size Distribution

Geotechnical

Sample Id: Station 198
Lab. Id: 110027
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 205,64 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,01	0,00	100,00
2,00	-1,00	0,05	0,02	99,97
1,40	-0,49	0,67	0,33	99,65
1,00	0,00	21,09	10,26	89,39
0,710	0,49	60,67	29,50	59,89
0,500	1,00	34,78	16,91	42,97
0,355	1,49	38,72	18,83	24,14
0,250	2,00	31,11	15,13	9,02
0,180	2,47	14,44	7,02	1,99
0,125	3,00	3,21	1,56	0,43
0,090	3,47	0,18	0,09	0,35
0,075	3,74	0,07	0,03	0,31
0,063	3,99	0,03	0,01	0,30
< 0,063	> 3,99	0,61	0,30	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,30
Sand, fine (0,063 mm - 0,200 mm):	3,70
Sand, medium (0,2 mm - 0,6 mm):	47,03
Sand, coarse (0,6 mm - 2 mm):	48,94
Gravel (> 2 mm):	0,03
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,22	-0,29
16%	84%	0,95	0,08
25%	75%	0,86	0,22
40%	60%	0,71	0,49
Median 50%	50%	0,59	0,77
75%	25%	0,36	1,47
84%	16%	0,30	1,74
90%	10%	0,26	1,96
95%	5%	0,21	2,25

Moments Statistics

Mean	0,86
Sorting	0,80
Skewness	0,17
Kurtosis	0,83
Uniformity Coefficient	2,77

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

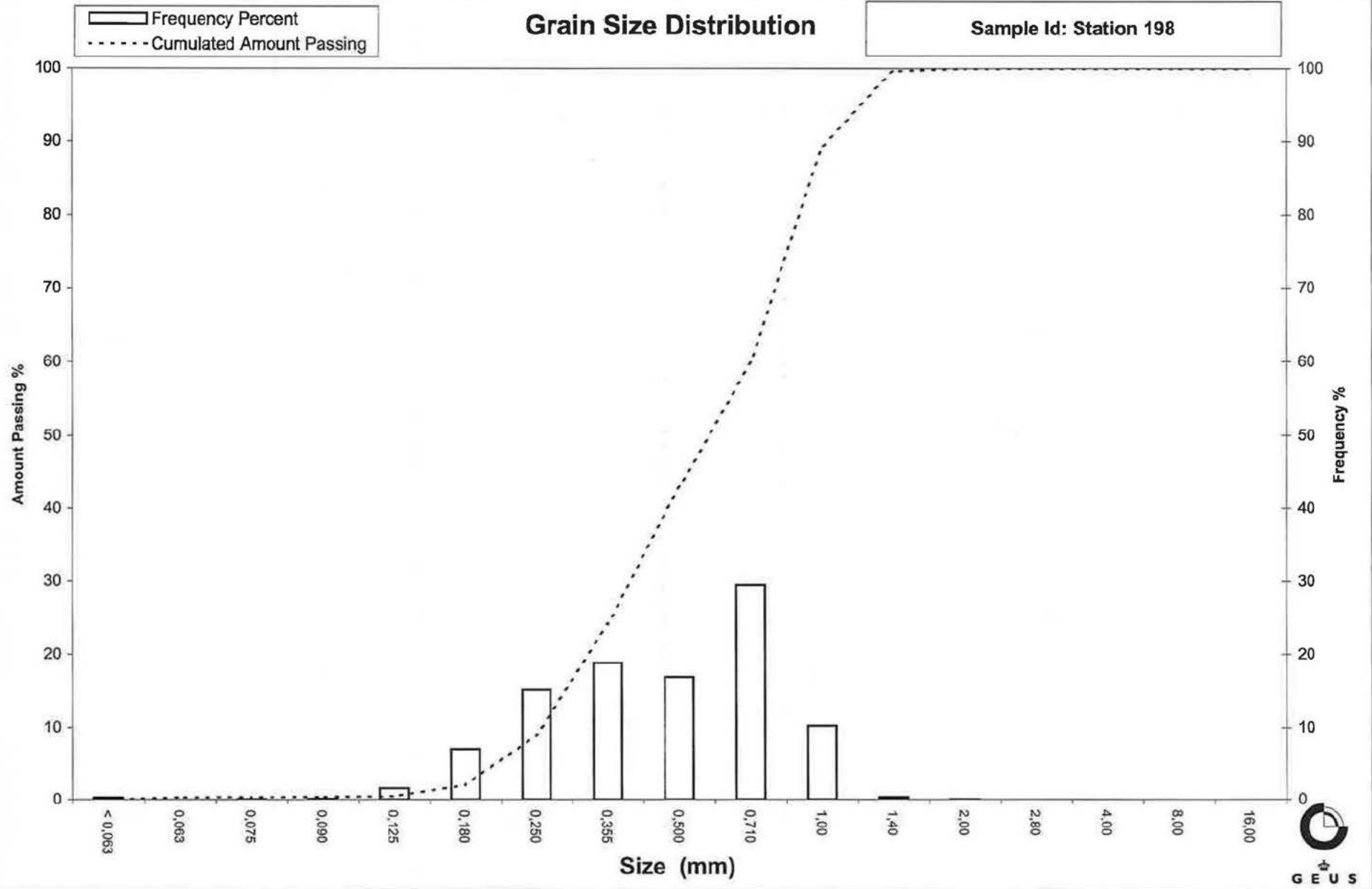
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 198



Grain Size Distribution

Geotechnical

Sample Id: Station 199
Lab. Id: 110028
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 208,46 g

Size Fractions

Size	Size	Weight	Weight	Cumulate
mm	Φ	g	%	amount passing
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,09	0,04	99,96
2,80	-1,49	0,00	0,00	99,96
2,00	-1,00	0,09	0,04	99,91
1,40	-0,49	0,52	0,25	99,66
1,00	0,00	15,56	7,46	92,20
0,710	0,49	68,52	32,87	59,33
0,500	1,00	37,10	17,80	41,53
0,355	1,49	35,66	17,11	24,43
0,250	2,00	34,06	16,34	8,09
0,180	2,47	12,78	6,13	1,96
0,125	3,00	2,38	1,14	0,82
0,090	3,47	0,22	0,11	0,71
0,075	3,74	0,16	0,08	0,63
0,063	3,99	0,04	0,02	0,61
< 0,063	> 3,99	1,28	0,61	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,61
Sand, fine (0,063 mm - 0,200 mm):	3,09
Sand, medium (0,2 mm - 0,6 mm):	46,30
Sand, coarse (0,6 mm - 2 mm):	49,91
Gravel (> 2 mm):	0,09
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,15	-0,20
16%	84%	0,93	0,11
25%	75%	0,85	0,24
40%	60%	0,72	0,48
Median 50%	50%	0,60	0,74
75%	25%	0,36	1,47
84%	16%	0,30	1,73
90%	10%	0,26	1,93
95%	5%	0,21	2,22

Moments Statistics

Mean	0,86
Sorting	0,77
Skewness	0,23
Kurtosis	0,80
Uniformity Coefficient	2,73

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the ½ phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

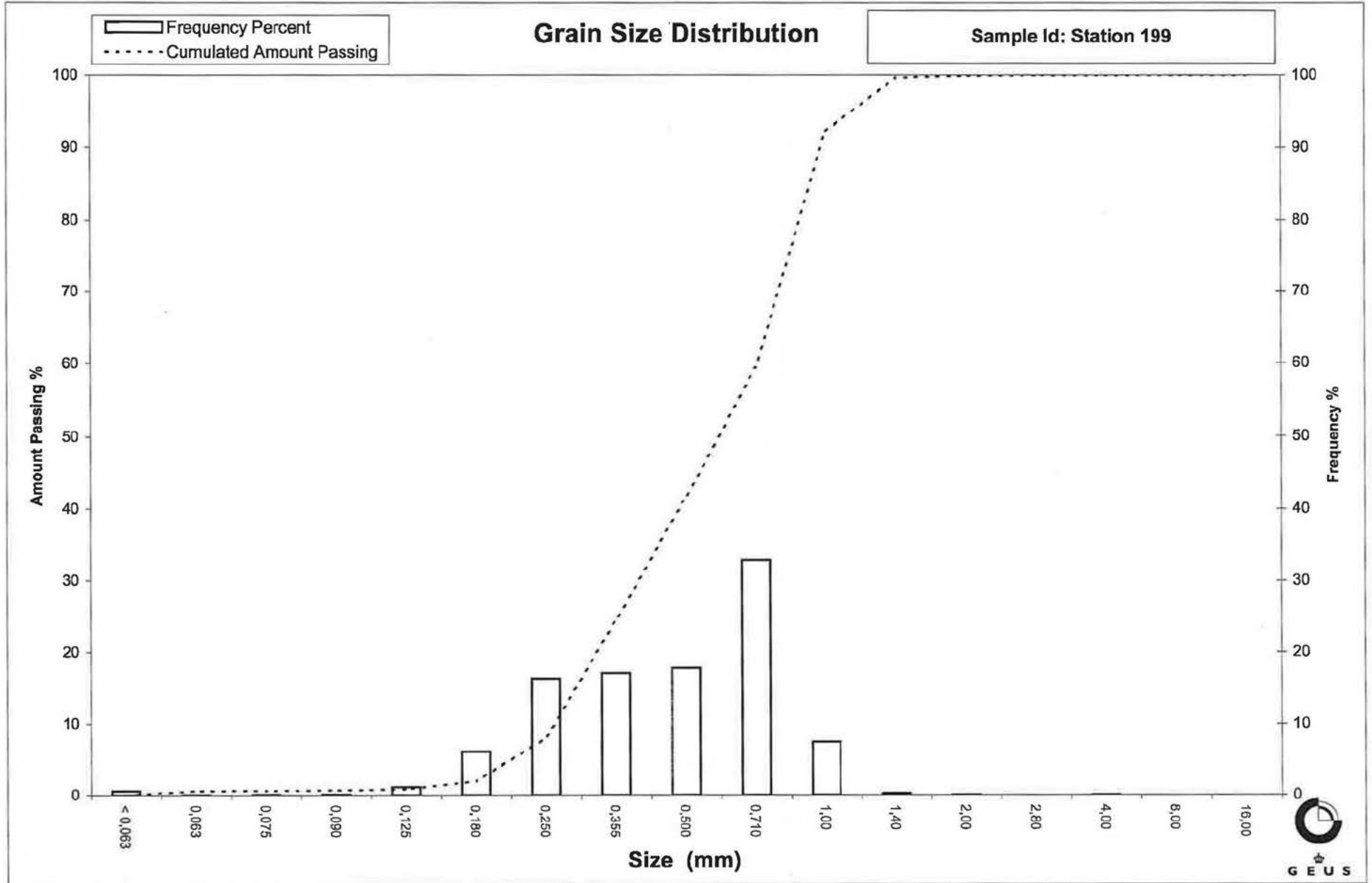
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 200
Lab. Id: 110029
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 203,14 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,10	0,05	99,95
2,00	-1,00	0,08	0,04	99,91
1,40	-0,49	0,26	0,13	99,78
1,00	0,00	6,61	3,25	96,53
0,710	0,49	55,25	27,20	69,33
0,500	1,00	40,33	19,85	49,48
0,355	1,49	36,84	18,14	31,34
0,250	2,00	40,21	19,79	11,55
0,180	2,47	17,82	8,77	2,78
0,125	3,00	3,85	1,90	0,88
0,090	3,47	0,42	0,21	0,67
0,075	3,74	0,07	0,03	0,64
0,063	3,99	0,05	0,02	0,62
< 0,063	> 3,99	1,25	0,62	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,62
Sand, fine (0,063 mm - 0,200 mm):	4,67
Sand, medium (0,2 mm - 0,6 mm):	53,65
Sand, coarse (0,6 mm - 2 mm):	40,98
Gravel (> 2 mm):	0,09
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,98	0,02
16%	84%	0,87	0,21
25%	75%	0,77	0,38
40%	60%	0,61	0,71
Median 50%	50%	0,51	0,98
75%	25%	0,32	1,64
84%	16%	0,27	1,87
90%	10%	0,24	2,07
95%	5%	0,20	2,34

Moments Statistics

Mean	1,02
Sorting	0,77
Skewness	0,12
Kurtosis	0,75
Uniformity Coefficient	2,57

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

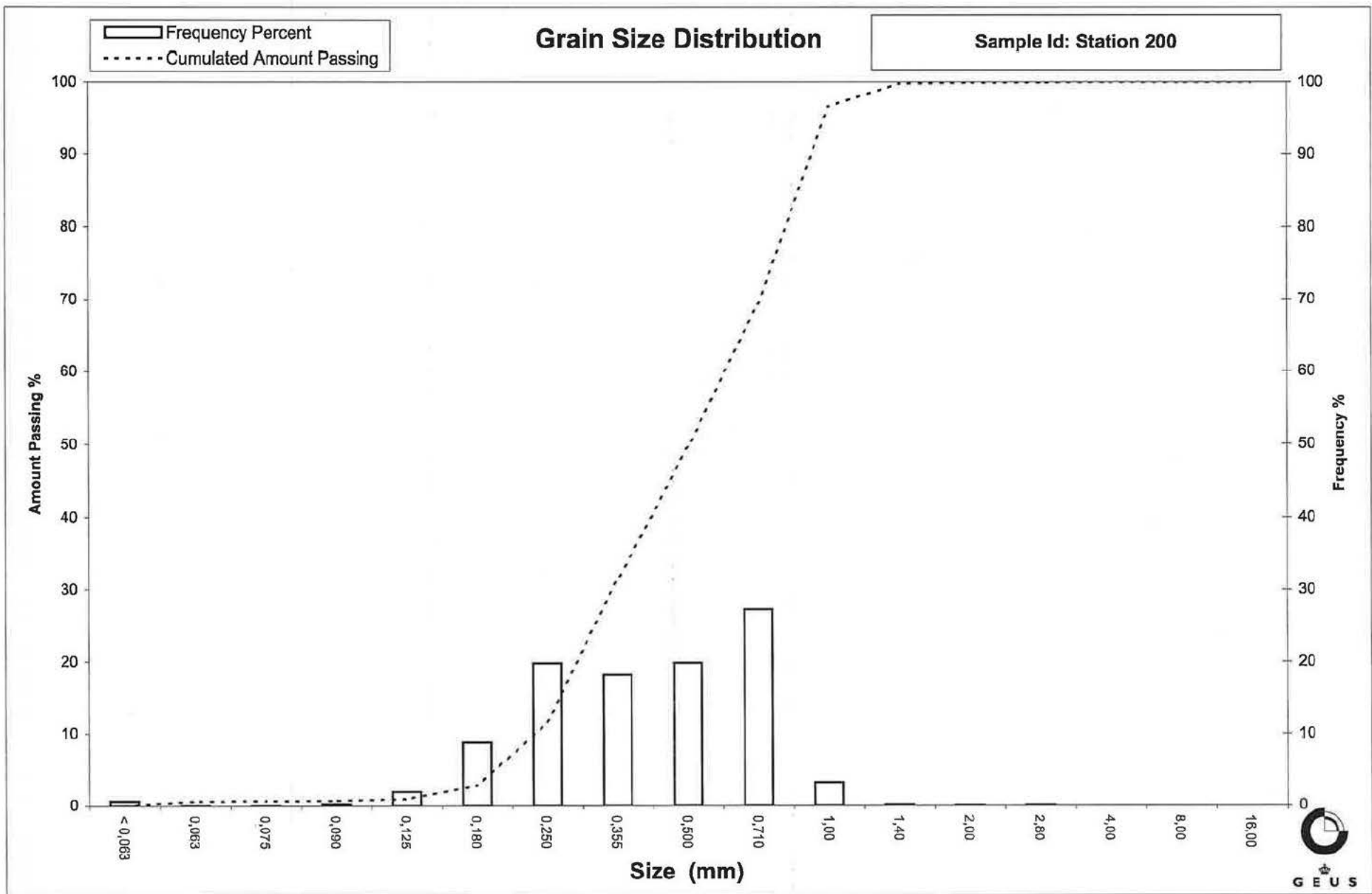
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 213
Lab. Id: 110030
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 218,16 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,14	0,06	99,94
2,80	-1,49	0,57	0,26	99,67
2,00	-1,00	0,79	0,36	99,31
1,40	-0,49	1,25	0,57	98,74
1,00	0,00	4,83	2,21	96,53
0,710	0,49	16,71	7,66	88,87
0,500	1,00	41,27	18,92	69,95
0,355	1,49	74,32	34,07	35,88
0,250	2,00	58,89	26,99	8,89
0,180	2,47	13,60	6,23	2,65
0,125	3,00	3,26	1,49	1,16
0,090	3,47	0,62	0,28	0,88
0,075	3,74	0,11	0,05	0,83
0,063	3,99	0,05	0,02	0,80
< 0,063	> 3,99	1,75	0,80	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,80
Sand, fine (0,063 mm - 0,200 mm):	3,63
Sand, medium (0,2 mm - 0,6 mm):	74,52
Sand, coarse (0,6 mm - 2 mm):	20,36
Gravel (> 2 mm):	0,69
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,94	0,09
16%	84%	0,66	0,61
25%	75%	0,56	0,85
40%	60%	0,46	1,13
Median 50%	50%	0,42	1,27
75%	25%	0,31	1,68
84%	16%	0,28	1,85
90%	10%	0,25	1,98
95%	5%	0,21	2,28

Moments Statistics

Mean	1,24
Sorting	0,64
Skewness	-0,07
Kurtosis	1,08
Uniformity Coefficient	1,80

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

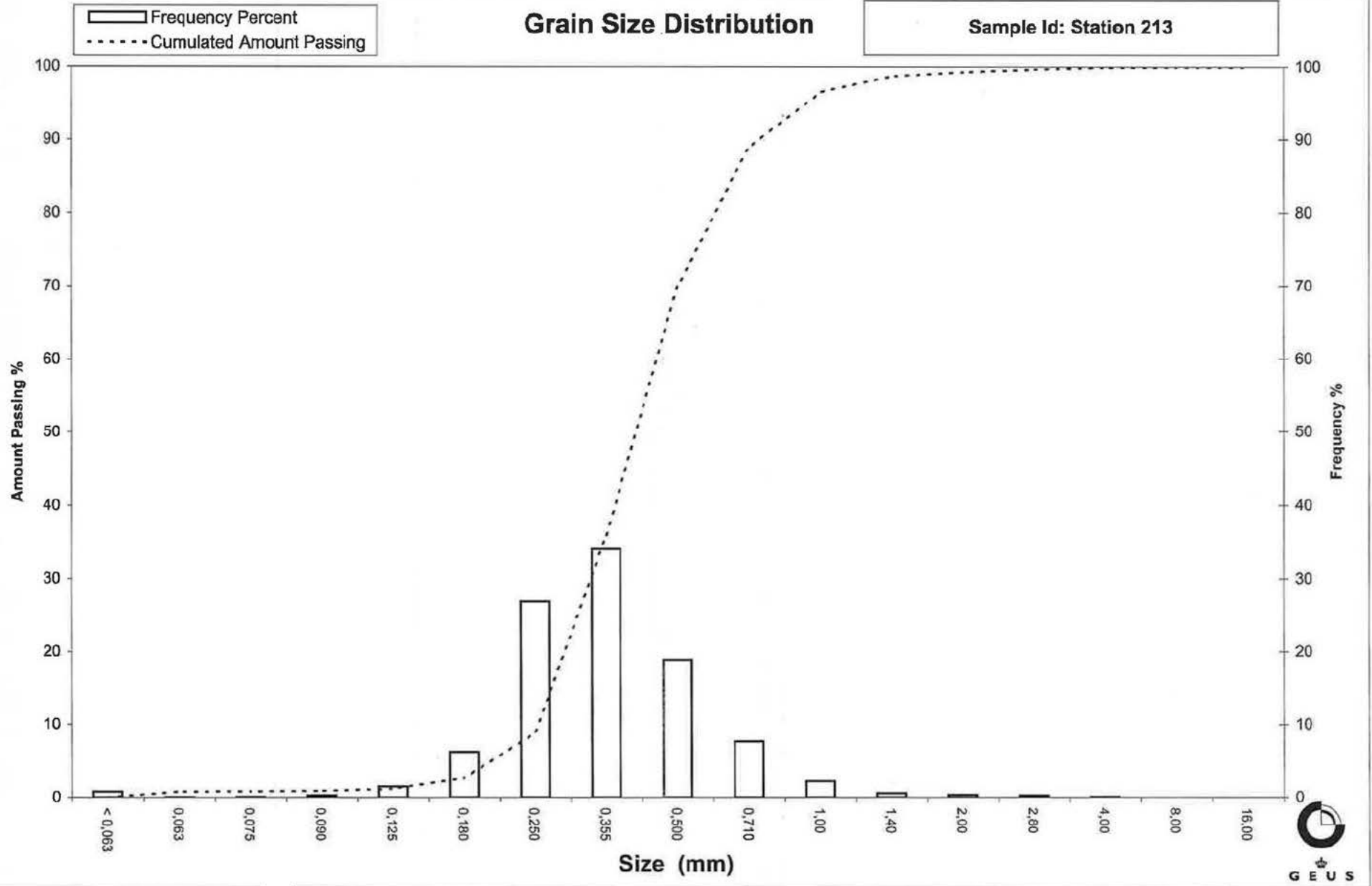
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 213



Grain Size Distribution

Geotechnical

Sample Id: Station 214
Lab. Id: 110031
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 201,83 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,45	0,22	99,78
2,80	-1,49	1,18	0,58	99,19
2,00	-1,00	1,75	0,87	98,33
1,40	-0,49	2,92	1,45	96,88
1,00	0,00	7,68	3,81	93,07
0,710	0,49	26,46	13,11	79,96
0,500	1,00	54,69	27,10	52,87
0,355	1,49	64,49	31,95	20,91
0,250	2,00	32,45	16,08	4,84
0,180	2,47	6,18	3,06	1,77
0,125	3,00	1,80	0,89	0,88
0,090	3,47	0,36	0,18	0,70
0,075	3,74	0,06	0,03	0,67
0,063	3,99	0,02	0,01	0,66
< 0,063	> 3,99	1,34	0,66	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,66
Sand, fine (0,063 mm - 0,200 mm):	1,98
Sand, medium (0,2 mm - 0,6 mm):	63,12
Sand, coarse (0,6 mm - 2 mm):	32,56
Gravel (> 2 mm):	1,67
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,20	-0,27
16%	84%	0,80	0,32
25%	75%	0,67	0,57
40%	60%	0,56	0,85
Median 50%	50%	0,49	1,04
75%	25%	0,37	1,42
84%	16%	0,32	1,63
90%	10%	0,28	1,82
95%	5%	0,25	1,99

Moments Statistics

Mean	1,00
Sorting	0,67
Skewness	-0,12
Kurtosis	1,09
Uniformity Coefficient	1,96

Size Classes and Percentiles are found by linear interpolation

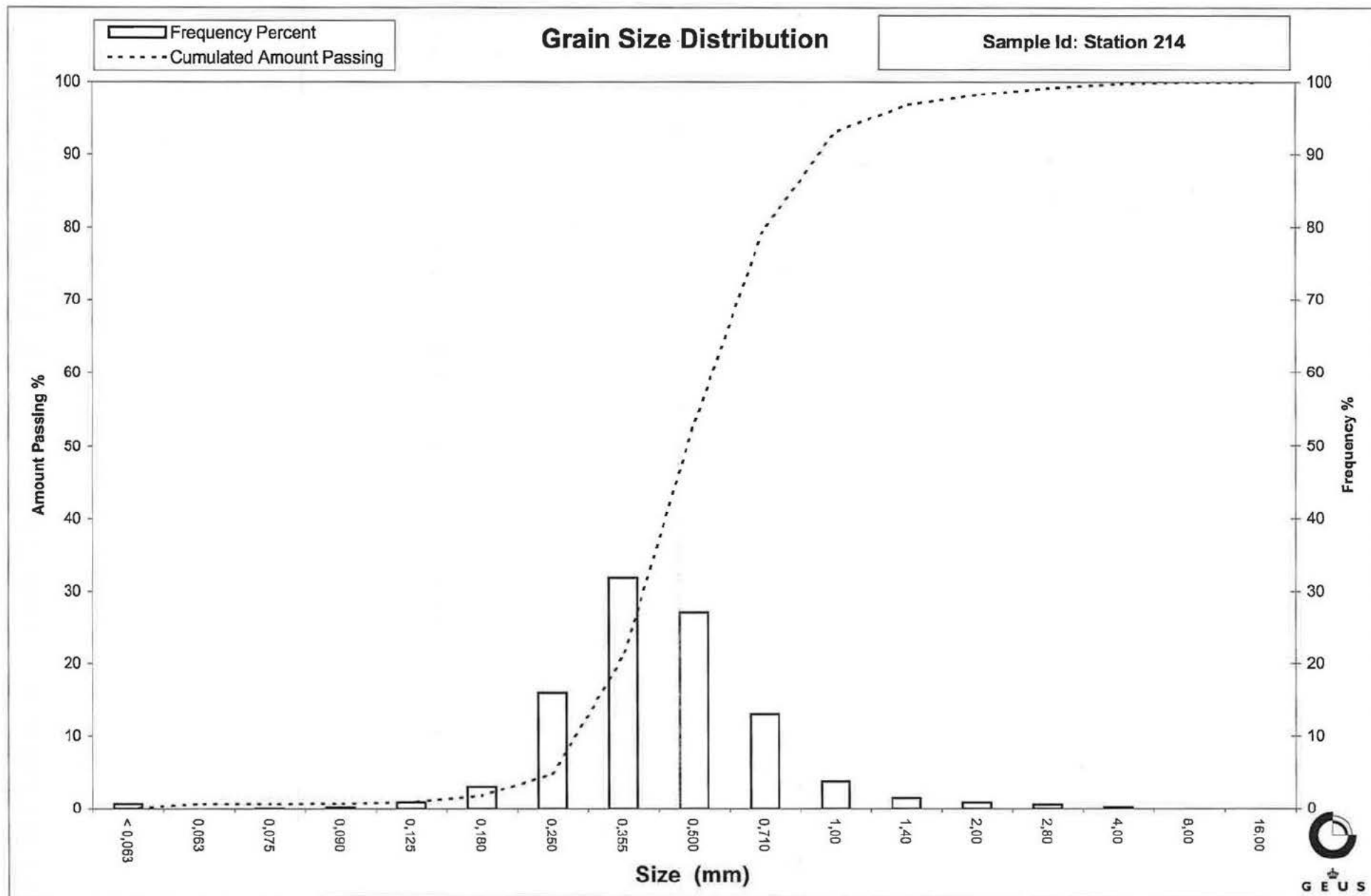
The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 215
Lab. Id: 110032
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



GEUS

Total Weight 204,67 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,24	0,12	99,88
4,00	-2,00	0,92	0,45	99,43
2,80	-1,49	1,49	0,73	98,71
2,00	-1,00	2,56	1,25	97,45
1,40	-0,49	4,40	2,15	95,30
1,00	0,00	10,88	5,32	89,99
0,710	0,49	33,52	16,38	73,61
0,500	1,00	60,07	29,35	44,26
0,355	1,49	57,04	27,87	16,39
0,250	2,00	25,39	12,41	3,99
0,180	2,47	5,09	2,49	1,50
0,125	3,00	1,12	0,55	0,95
0,090	3,47	0,21	0,10	0,85
0,075	3,74	0,06	0,03	0,82
0,063	3,99	0,02	0,01	0,81
< 0,063	> 3,99	1,66	0,81	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,81
Sand, fine (0,063 mm - 0,200 mm):	1,40
Sand, medium (0,2 mm - 0,6 mm):	56,03
Sand, coarse (0,6 mm - 2 mm):	39,22
Gravel (> 2 mm):	2,55
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,38	-0,46
16%	84%	0,89	0,16
25%	75%	0,73	0,44
40%	60%	0,61	0,71
Median 50%	50%	0,54	0,89
75%	25%	0,40	1,32
84%	16%	0,35	1,51
90%	10%	0,30	1,73
95%	5%	0,26	1,95

Moments Statistics

Mean	0,85
Sorting	0,70
Skewness	-0,10
Kurtosis	1,13
Uniformity Coefficient	2,04

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

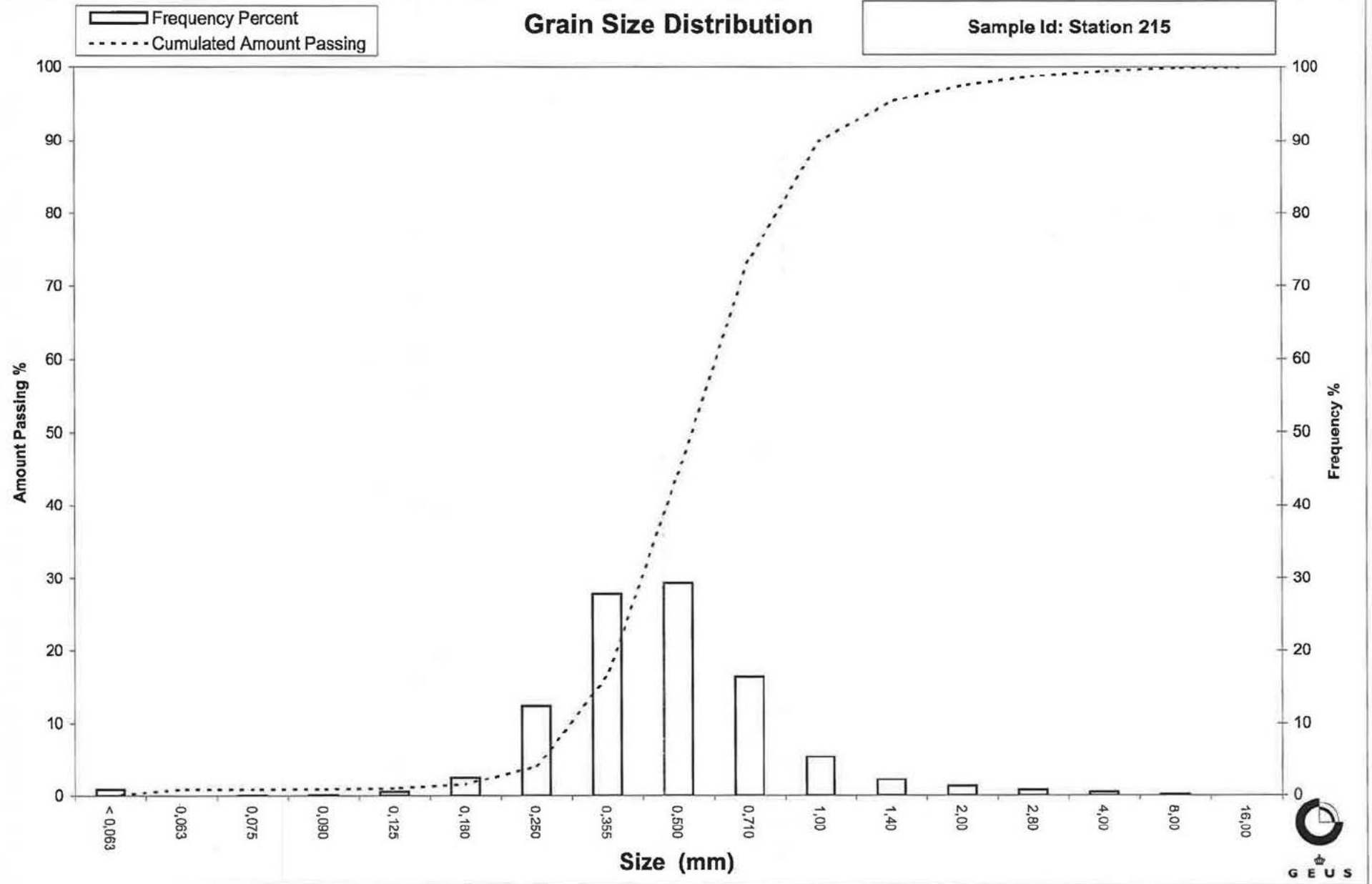
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 215



Grain Size Distribution

Geotechnical

Sample Id: Station 219
Lab. Id: 110033
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 101,22 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,06	0,06	99,94
2,00	-1,00	0,01	0,01	99,93
1,40	-0,49	0,06	0,06	99,87
1,00	0,00	0,07	0,07	99,80
0,710	0,49	0,14	0,14	99,66
0,500	1,00	1,19	1,18	98,49
0,355	1,49	9,45	9,34	89,15
0,250	2,00	29,93	29,57	59,58
0,180	2,47	39,54	39,06	20,52
0,125	3,00	17,59	17,38	3,14
0,090	3,47	2,17	2,14	1,00
0,075	3,74	0,13	0,13	0,87
0,063	3,99	0,02	0,02	0,85
< 0,063	> 3,99	0,86	0,85	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,85
Sand, fine (0,063 mm - 0,200 mm):	30,83
Sand, medium (0,2 mm - 0,6 mm):	67,37
Sand, coarse (0,6 mm - 2 mm):	0,88
Gravel (> 2 mm):	0,07
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,45	1,17
16%	84%	0,34	1,57
25%	75%	0,30	1,71
40%	60%	0,25	1,99
Median 50%	50%	0,23	2,10
75%	25%	0,19	2,41
84%	16%	0,17	2,59
90%	10%	0,15	2,77
95%	5%	0,13	2,93

Moments Statistics

Mean	2,09
Sorting	0,52
Skewness	-0,05
Kurtosis	1,04
Uniformity Coefficient	1,71

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

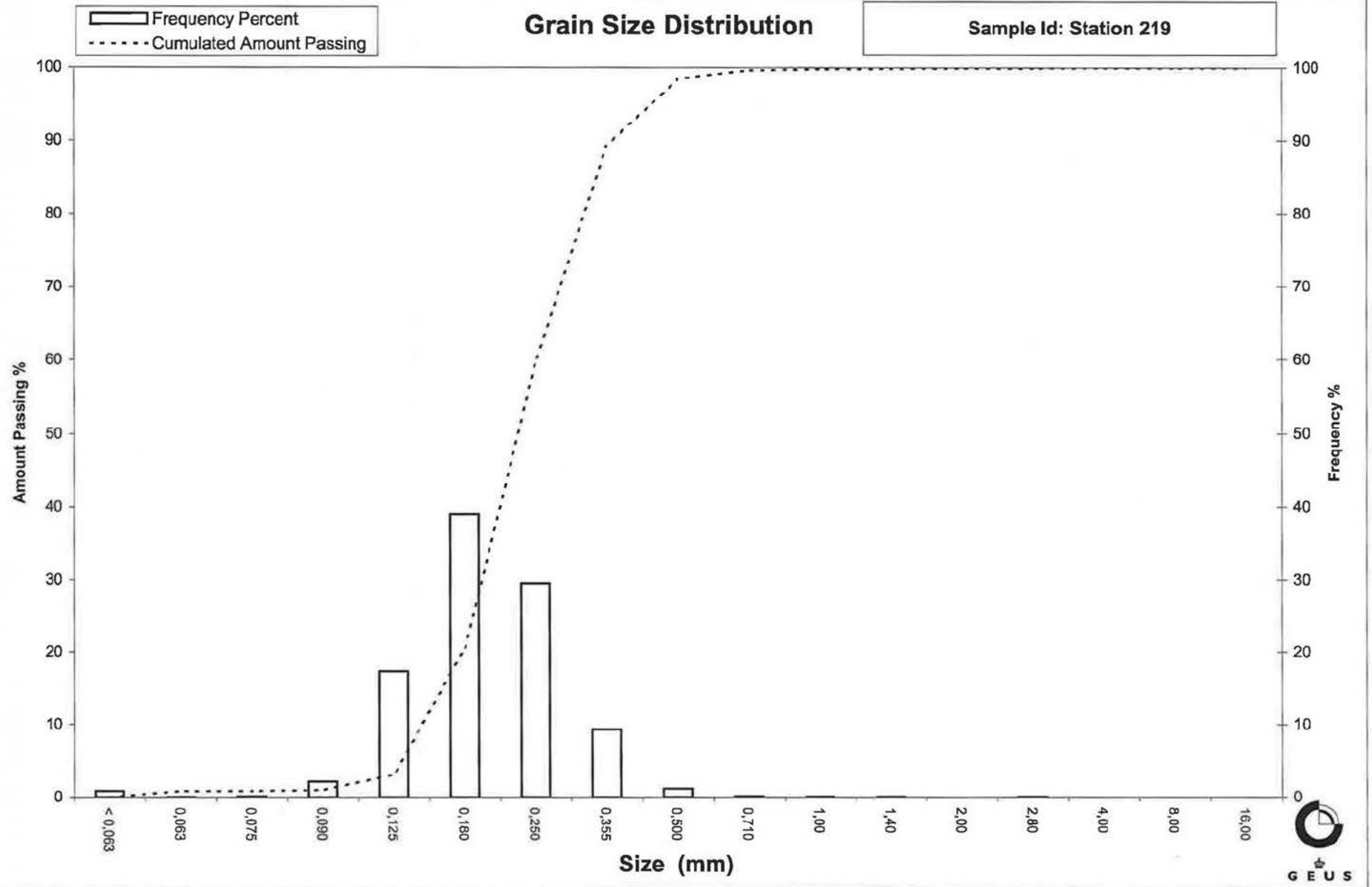
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 219



Grain Size Distribution

Geotechnical

Sample Id: Station 220
Lab. Id: 110034
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 117,06 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,02	0,02	99,98
1,40	-0,49	0,01	0,01	99,97
1,00	0,00	0,15	0,13	99,85
0,710	0,49	0,15	0,13	99,72
0,500	1,00	0,85	0,73	98,99
0,355	1,49	4,87	4,16	94,83
0,250	2,00	15,01	12,82	82,01
0,180	2,47	40,40	34,51	47,50
0,125	3,00	46,94	40,10	7,40
0,090	3,47	7,42	6,34	1,06
0,075	3,74	0,65	0,56	0,50
0,063	3,99	0,27	0,23	0,27
< 0,063	> 3,99	0,32	0,27	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,27
Sand, fine (0,063 mm - 0,200 mm):	57,08
Sand, medium (0,2 mm - 0,6 mm):	41,98
Sand, coarse (0,6 mm - 2 mm):	0,65
Gravel (> 2 mm):	0,02
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,36	1,47
16%	84%	0,27	1,91
25%	75%	0,24	2,08
40%	60%	0,21	2,28
Median 50%	50%	0,19	2,43
75%	25%	0,15	2,75
84%	16%	0,14	2,87
90%	10%	0,13	2,96
95%	5%	0,11	3,16

Moments Statistics

Mean	2,40
Sorting	0,50
Skewness	-0,12
Kurtosis	1,05
Uniformity Coefficient	1,60

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

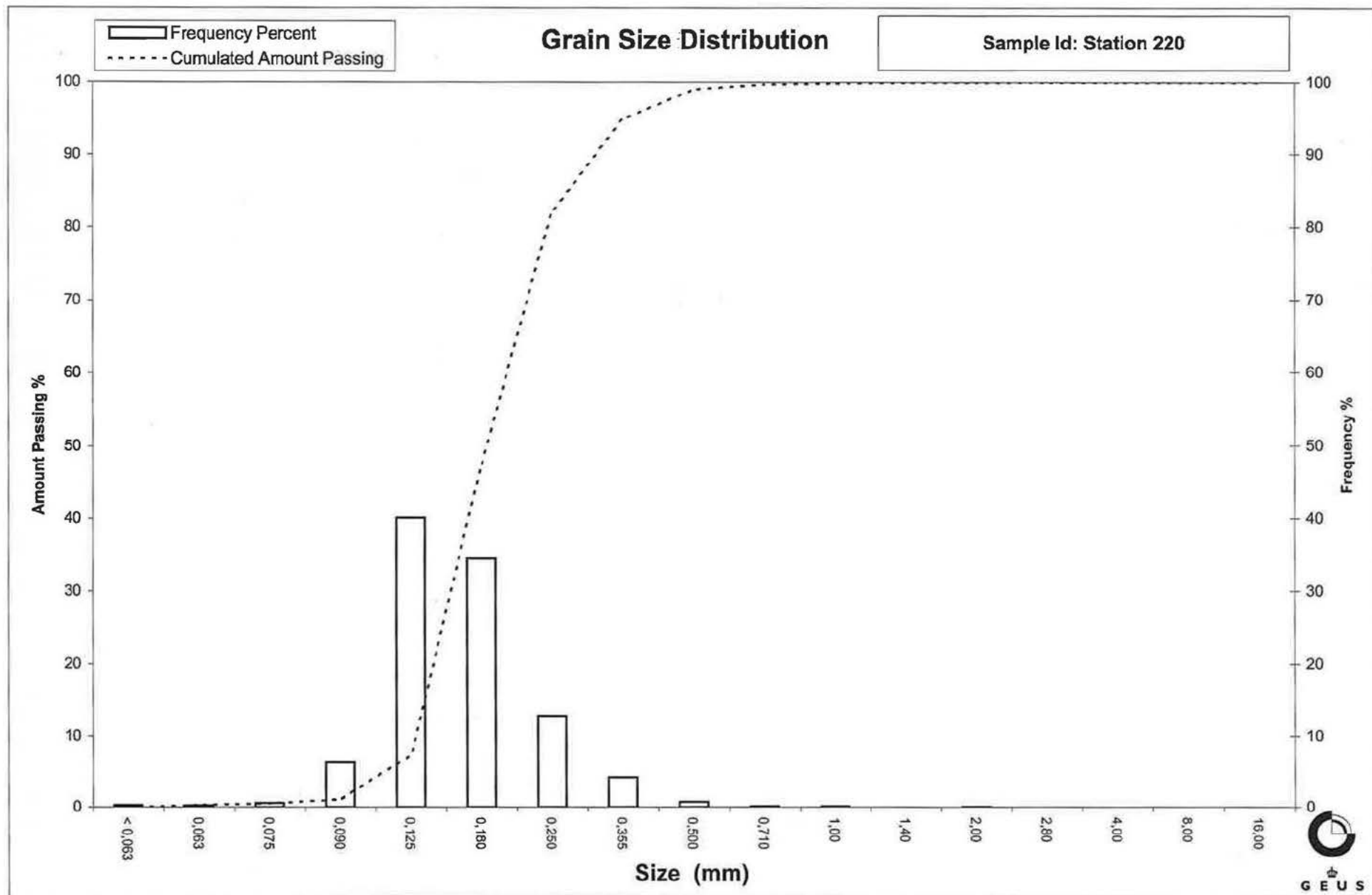
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 221
Lab. Id: 110035
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 101,01 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,03	0,03	99,97
2,00	-1,00	0,06	0,06	99,91
1,40	-0,49	0,05	0,05	99,86
1,00	0,00	0,11	0,11	99,75
0,710	0,49	0,22	0,22	99,53
0,500	1,00	1,34	1,33	98,20
0,355	1,49	7,53	7,46	90,75
0,250	2,00	17,84	17,67	73,08
0,180	2,47	33,86	33,52	39,56
0,125	3,00	33,83	33,49	6,07
0,090	3,47	4,96	4,91	1,15
0,075	3,74	0,25	0,25	0,90
0,063	3,99	0,11	0,11	0,79
< 0,063	> 3,99	0,80	0,79	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,79
Sand, fine (0,063 mm - 0,200 mm):	48,34
Sand, medium (0,2 mm - 0,6 mm):	49,70
Sand, coarse (0,6 mm - 2 mm):	1,08
Gravel (> 2 mm):	0,09
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,44	1,19
16%	84%	0,31	1,67
25%	75%	0,26	1,94
40%	60%	0,22	2,17
Median 50%	50%	0,20	2,31
75%	25%	0,16	2,68
84%	16%	0,14	2,82
90%	10%	0,13	2,93
95%	5%	0,12	3,09

Moments Statistics

Mean	2,27
Sorting	0,58
Skewness	-0,14
Kurtosis	1,05
Uniformity Coefficient	1,69

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the ½ phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

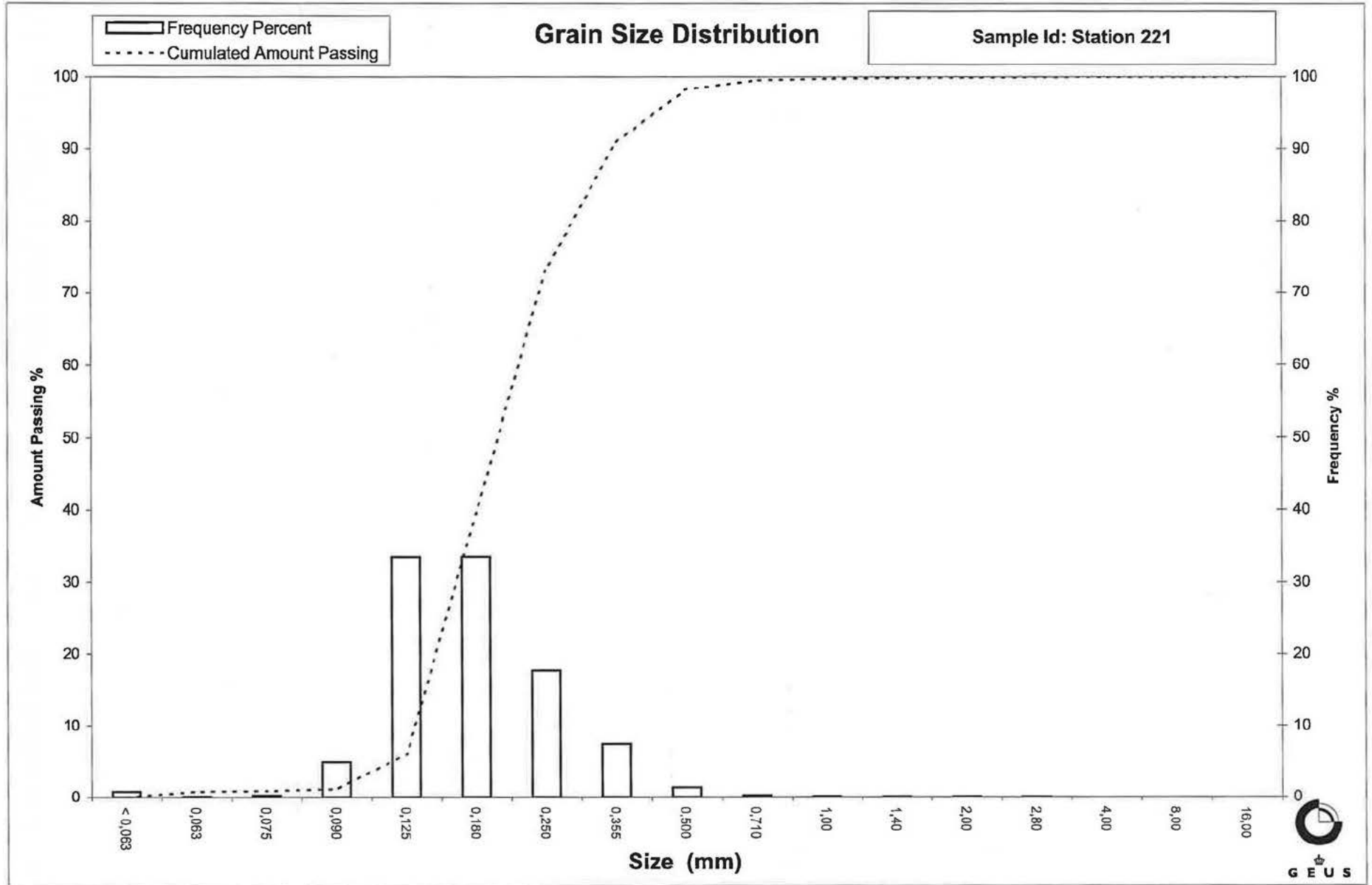
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 225
Lab. Id: 110036
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 114,08 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount
mm	Φ	g	%	amount passing
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,04	0,04	99,96
2,80	-1,49	0,03	0,03	99,94
2,00	-1,00	0,04	0,04	99,90
1,40	-0,49	0,04	0,04	99,87
1,00	0,00	0,22	0,19	99,68
0,710	0,49	1,22	1,07	98,61
0,500	1,00	17,12	15,01	83,60
0,355	1,49	40,27	35,30	48,30
0,250	2,00	33,58	29,44	18,86
0,180	2,47	15,37	13,47	5,39
0,125	3,00	4,23	3,71	1,68
0,090	3,47	0,58	0,51	1,17
0,075	3,74	0,14	0,12	1,05
0,063	3,99	0,12	0,11	0,95
< 0,063	> 3,99	1,08	0,95	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,95
Sand, fine (0,063 mm - 0,200 mm):	8,29
Sand, medium (0,2 mm - 0,6 mm):	81,51
Sand, coarse (0,6 mm - 2 mm):	9,16
Gravel (> 2 mm):	0,10
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,66	0,60
16%	84%	0,51	0,98
25%	75%	0,46	1,11
40%	60%	0,40	1,31
Median 50%	50%	0,36	1,47
75%	25%	0,27	1,88
84%	16%	0,24	2,09
90%	10%	0,20	2,29
95%	5%	0,17	2,52

Moments Statistics

Mean	1,51
Sorting	0,57
Skewness	0,11
Kurtosis	1,02
Uniformity Coefficient	1,98

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

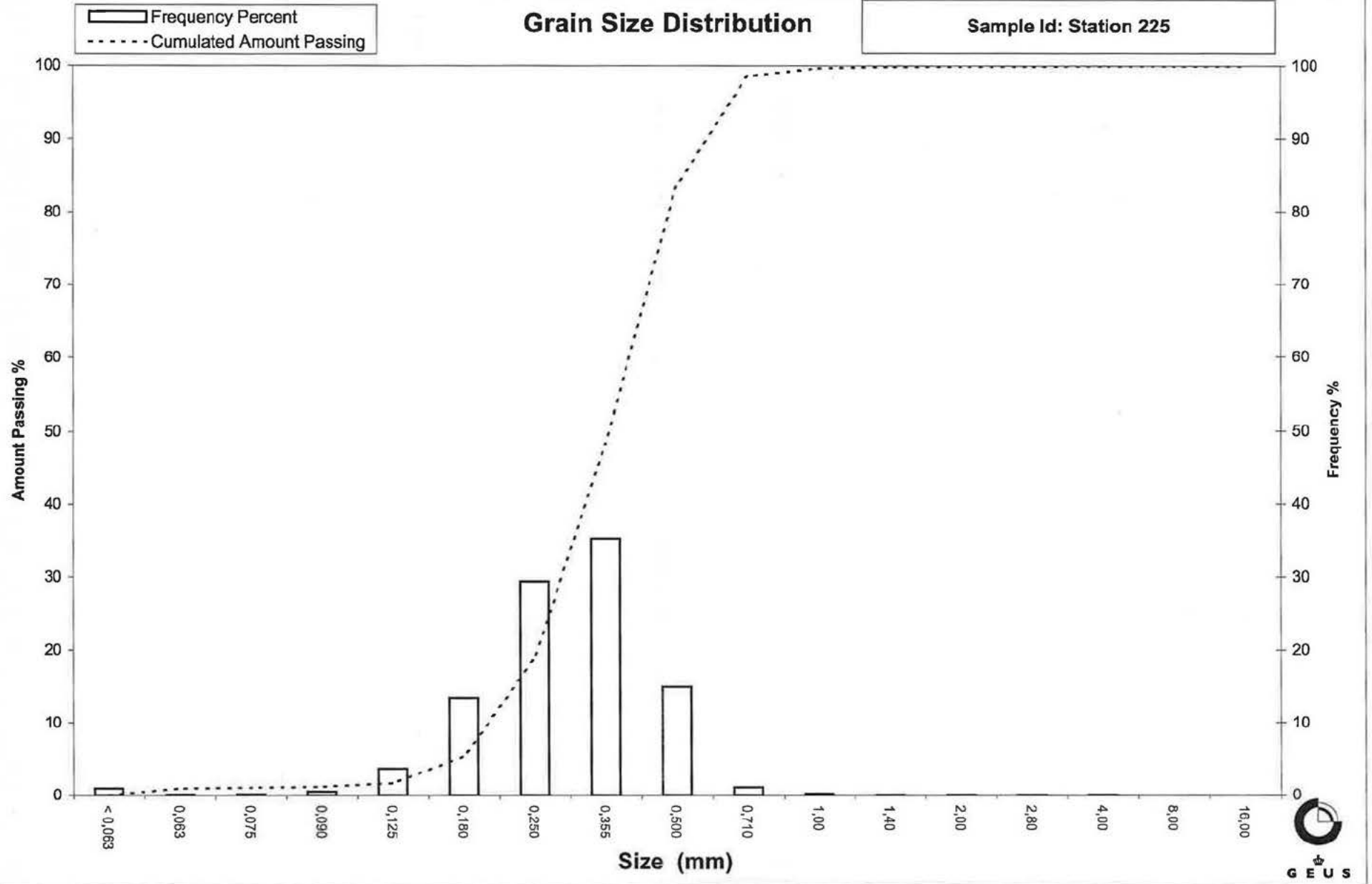
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Sample Id: Station 225



Grain Size Distribution

Geotechnical

Sample Id: Station 226
Lab. Id: 110037
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 204,47 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,02	0,01	99,99
2,00	-1,00	0,03	0,01	99,98
1,40	-0,49	0,18	0,09	99,89
1,00	0,00	0,86	0,42	99,47
0,710	0,49	3,34	1,63	97,83
0,500	1,00	32,46	15,88	81,96
0,355	1,49	66,98	32,76	49,20
0,250	2,00	55,25	27,02	22,18
0,180	2,47	30,62	14,98	7,20
0,125	3,00	11,22	5,49	1,72
0,090	3,47	1,98	0,97	0,75
0,075	3,74	0,31	0,15	0,60
0,063	3,99	0,13	0,06	0,53
< 0,063	> 3,99	1,09	0,53	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,53
Sand, fine (0,063 mm - 0,200 mm):	10,95
Sand, medium (0,2 mm - 0,6 mm):	78,04
Sand, coarse (0,6 mm - 2 mm):	10,46
Gravel (> 2 mm):	0,02
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,67	0,57
16%	84%	0,53	0,92
25%	75%	0,47	1,09
40%	60%	0,40	1,31
Median 50%	50%	0,36	1,48
75%	25%	0,26	1,94
84%	16%	0,22	2,18
90%	10%	0,19	2,37
95%	5%	0,16	2,66

Moments Statistics

Mean	1,53
Sorting	0,63
Skewness	0,12
Kurtosis	1,01
Uniformity Coefficient	2,09

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

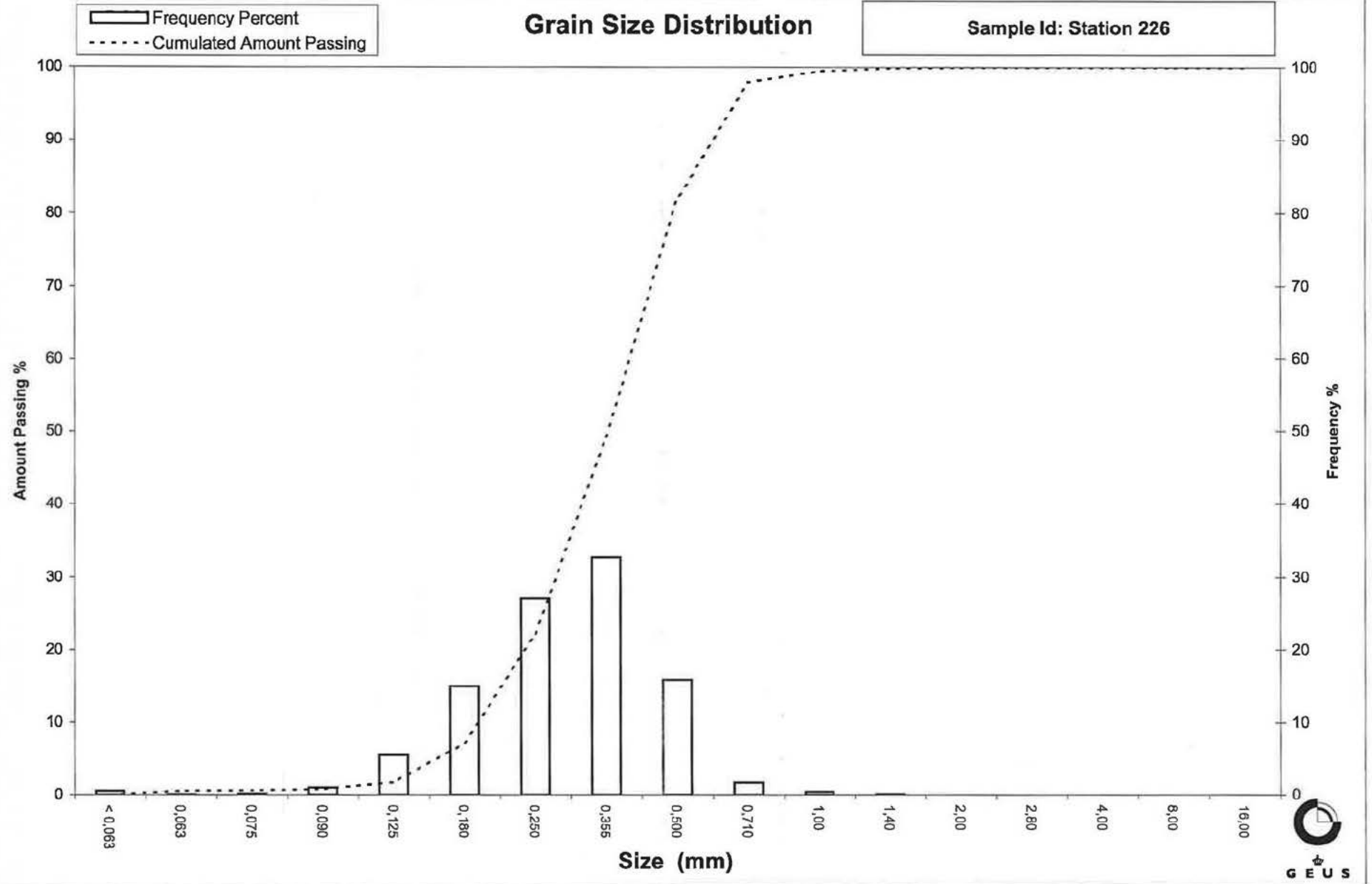
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 226



Grain Size Distribution

Geotechnical

Sample Id: Station 227
Lab. Id: 110038
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 200,01 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,05	0,02	99,98
2,00	-1,00	0,08	0,04	99,94
1,40	-0,49	0,42	0,21	99,73
1,00	0,00	2,41	1,20	98,52
0,710	0,49	5,75	2,87	95,65
0,500	1,00	25,78	12,89	82,76
0,355	1,49	58,63	29,31	53,44
0,250	2,00	57,81	28,90	24,54
0,180	2,47	32,13	16,06	8,47
0,125	3,00	13,12	6,56	1,91
0,090	3,47	1,77	0,88	1,03
0,075	3,74	0,31	0,15	0,87
0,063	3,99	0,16	0,08	0,79
< 0,063	> 3,99	1,59	0,79	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,79
Sand, fine (0,063 mm - 0,200 mm):	12,27
Sand, medium (0,2 mm - 0,6 mm):	75,83
Sand, coarse (0,6 mm - 2 mm):	11,04
Gravel (> 2 mm):	0,06
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,70	0,52
16%	84%	0,52	0,94
25%	75%	0,46	1,12
40%	60%	0,39	1,37
Median 50%	50%	0,34	1,55
75%	25%	0,25	1,99
84%	16%	0,21	2,23
90%	10%	0,19	2,42
95%	5%	0,15	2,73

Moments Statistics

Mean	1,57
Sorting	0,66
Skewness	0,07
Kurtosis	1,04
Uniformity Coefficient	2,08

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

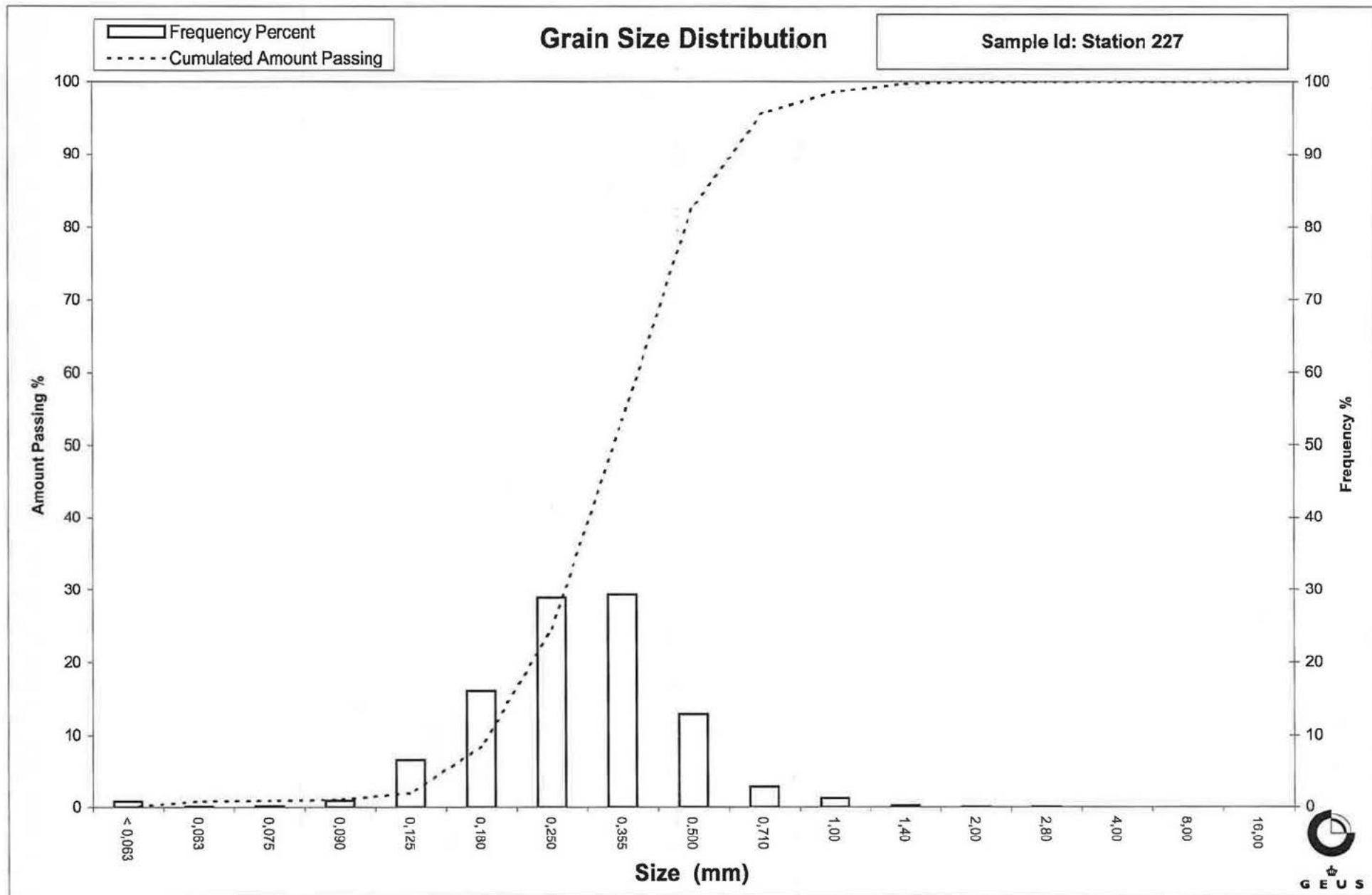
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 231
Lab. Id: 110039
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 200,79 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount - passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,12	0,06	99,94
2,80	-1,49	0,04	0,02	99,92
2,00	-1,00	0,32	0,16	99,76
1,40	-0,49	0,47	0,23	99,53
1,00	0,00	2,78	1,38	98,14
0,710	0,49	12,85	6,40	91,74
0,500	1,00	53,64	26,71	65,03
0,355	1,49	78,30	39,00	26,03
0,250	2,00	30,09	14,99	11,05
0,180	2,47	11,92	5,94	5,11
0,125	3,00	7,48	3,73	1,38
0,090	3,47	1,22	0,61	0,78
0,075	3,74	0,21	0,10	0,67
0,063	3,99	0,07	0,03	0,64
< 0,063	> 3,99	1,28	0,64	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,64
Sand, fine (0,063 mm - 0,200 mm):	6,17
Sand, medium (0,2 mm - 0,6 mm):	70,94
Sand, coarse (0,6 mm - 2 mm):	22,01
Gravel (> 2 mm):	0,24
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,86	0,22
16%	84%	0,65	0,62
25%	75%	0,58	0,79
40%	60%	0,48	1,05
Median 50%	50%	0,44	1,17
75%	25%	0,35	1,52
84%	16%	0,28	1,81
90%	10%	0,24	2,07
95%	5%	0,18	2,49

Moments Statistics

Mean	1,20
Sorting	0,64
Skewness	0,12
Kurtosis	1,27
Uniformity Coefficient	2,03

Size Classes and Percentiles
are found by linear interpolation

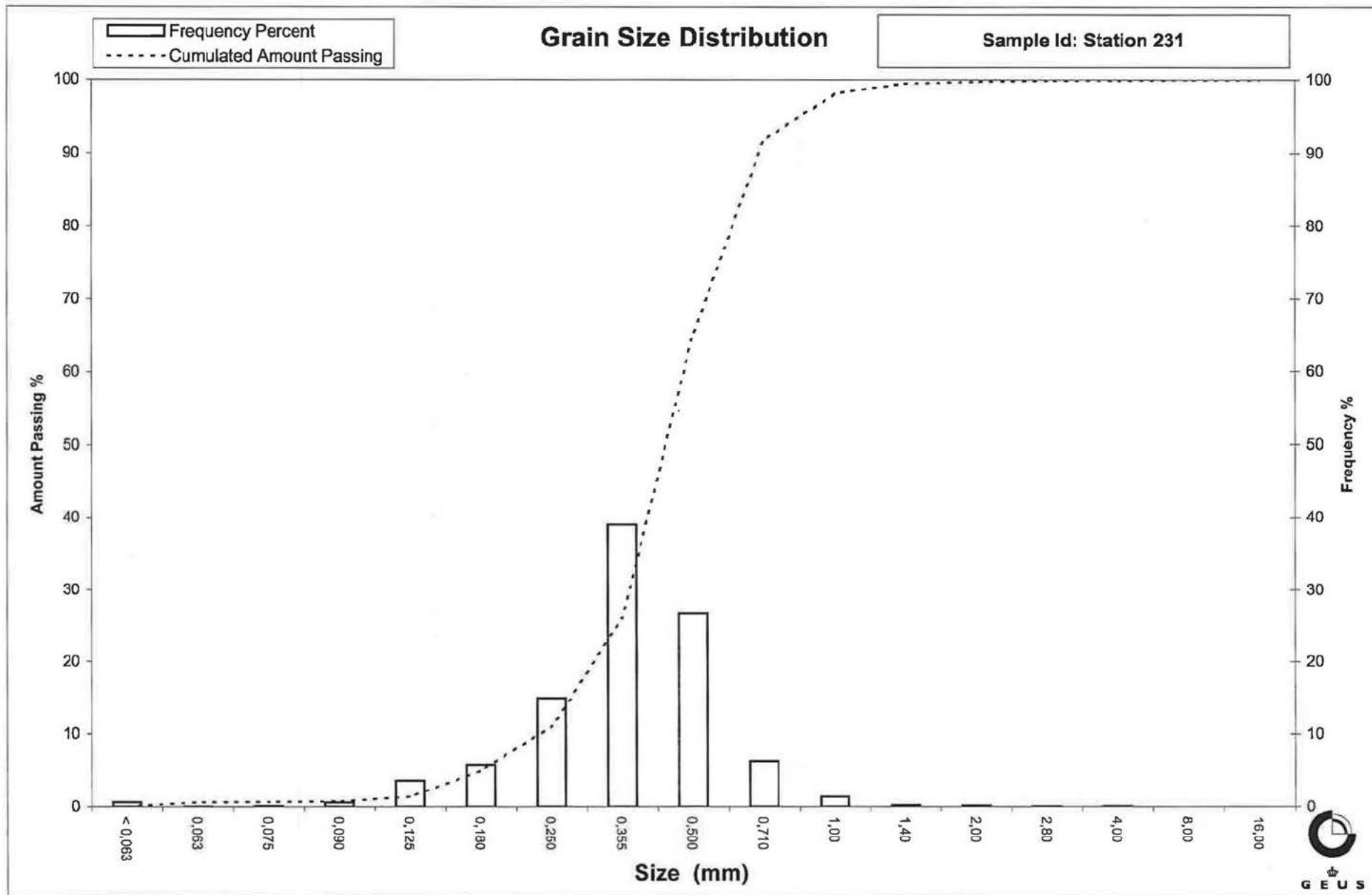
The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 232
Lab. Id: 110040
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat < 2mm



GEUS

Total Weight 134,58 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,26	0,19	99,81
2,80	-1,49	0,50	0,37	99,44
2,00	-1,00	0,23	0,17	99,26
1,40	-0,49	0,24	0,18	99,09
1,00	0,00	2,57	1,91	97,18
0,710	0,49	12,22	9,08	88,10
0,500	1,00	40,29	29,94	58,16
0,355	1,49	51,14	38,00	20,16
0,250	2,00	16,85	12,52	7,64
0,180	2,47	5,15	3,83	3,81
0,125	3,00	2,85	2,12	1,69
0,090	3,47	0,42	0,31	1,38
0,075	3,74	0,05	0,04	1,34
0,063	3,99	0,03	0,02	1,32
< 0,063	> 3,99	1,78	1,32	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,32
Sand, fine (0,063 mm - 0,200 mm):	3,58
Sand, medium (0,2 mm - 0,6 mm):	67,51
Sand, coarse (0,6 mm - 2 mm):	26,85
Gravel (> 2 mm):	0,74
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,93	0,10
16%	84%	0,68	0,55
25%	75%	0,62	0,69
40%	60%	0,51	0,96
Median 50%	50%	0,47	1,09
75%	25%	0,37	1,42
84%	16%	0,32	1,64
90%	10%	0,27	1,89
95%	5%	0,20	2,31

Moments Statistics

Mean	1,10
Sorting	0,61
Skewness	0,06
Kurtosis	1,24
Uniformity Coefficient	1,90

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the ½ phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

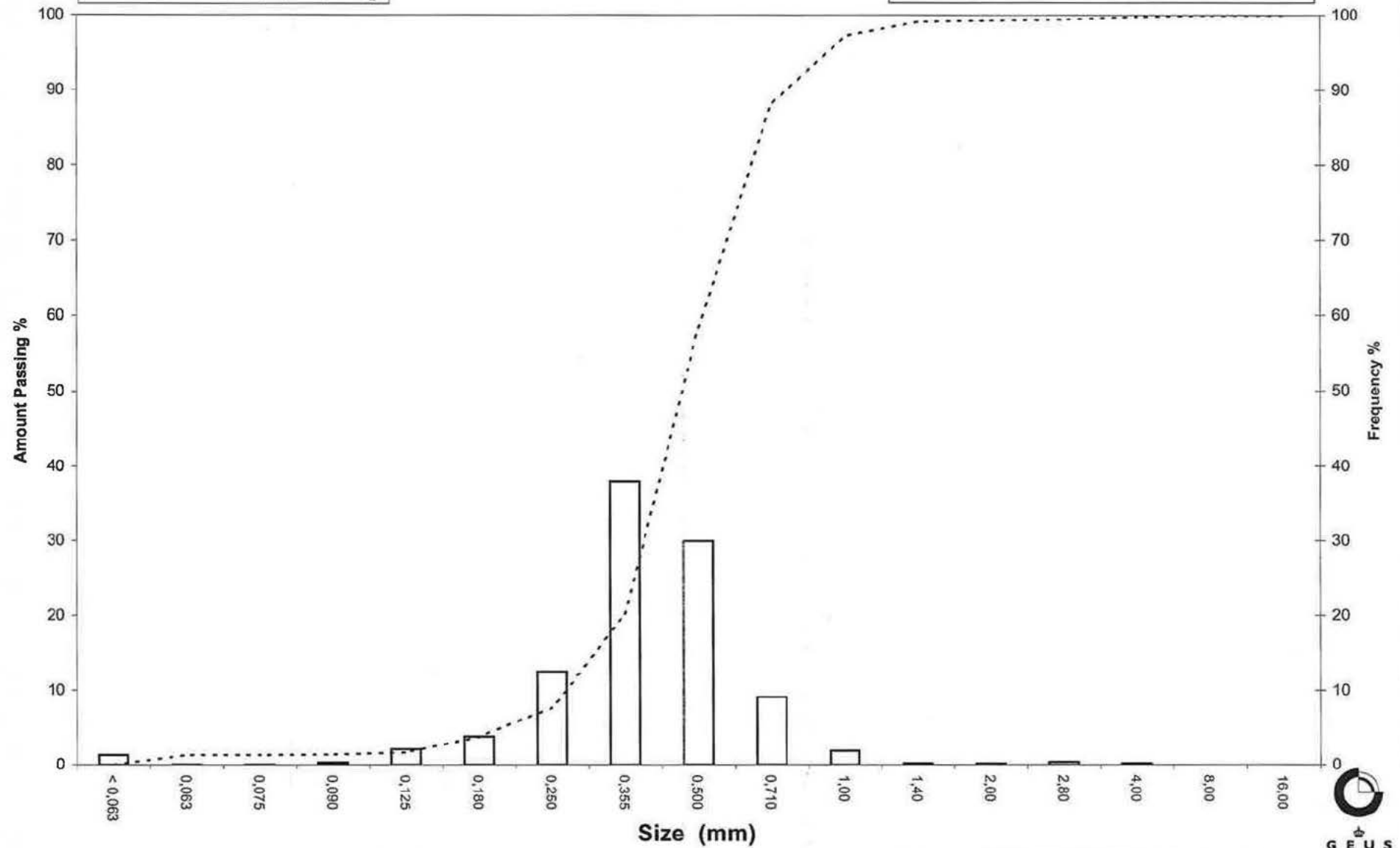
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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Grain Size Distribution

Sample Id: Station 232



Grain Size Distribution

Geotechnical

Sample Id: Station 233
Lab. Id: 110041
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 16mm



Total Weight 701,21 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	17,70	2,52	97,48
8,00	-3,00	3,38	0,48	96,99
4,00	-2,00	1,75	0,25	96,74
2,80	-1,49	1,25	0,18	96,56
2,00	-1,00	0,96	0,14	96,43
1,40	-0,49	2,66	0,38	96,05
1,00	0,00	14,00	2,00	94,05
0,710	0,49	61,12	8,72	85,34
0,500	1,00	210,42	30,01	55,33
0,355	1,49	257,42	36,71	18,62
0,250	2,00	87,05	12,41	6,20
0,180	2,47	27,87	3,98	2,23
0,125	3,00	12,52	1,79	0,44
0,090	3,47	1,54	0,22	0,22
0,075	3,74	0,35	0,05	0,17
0,063	3,99	0,12	0,02	0,16
< 0,063	> 3,99	1,09	0,16	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,16
Sand, fine (0,063 mm - 0,200 mm):	3,21
Sand, medium (0,2 mm - 0,6 mm):	66,25
Sand, coarse (0,6 mm - 2 mm):	26,81
Gravel (> 2 mm):	3,57
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,19	-0,25
16%	84%	0,70	0,51
25%	75%	0,64	0,65
40%	60%	0,53	0,91
Median 50%	50%	0,48	1,06
75%	25%	0,38	1,40
84%	16%	0,33	1,59
90%	10%	0,28	1,83
95%	5%	0,23	2,13

Moments Statistics

Mean	1,05
Sorting	0,63
Skewness	-0,06
Kurtosis	1,31
Uniformity Coefficient	1,89

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

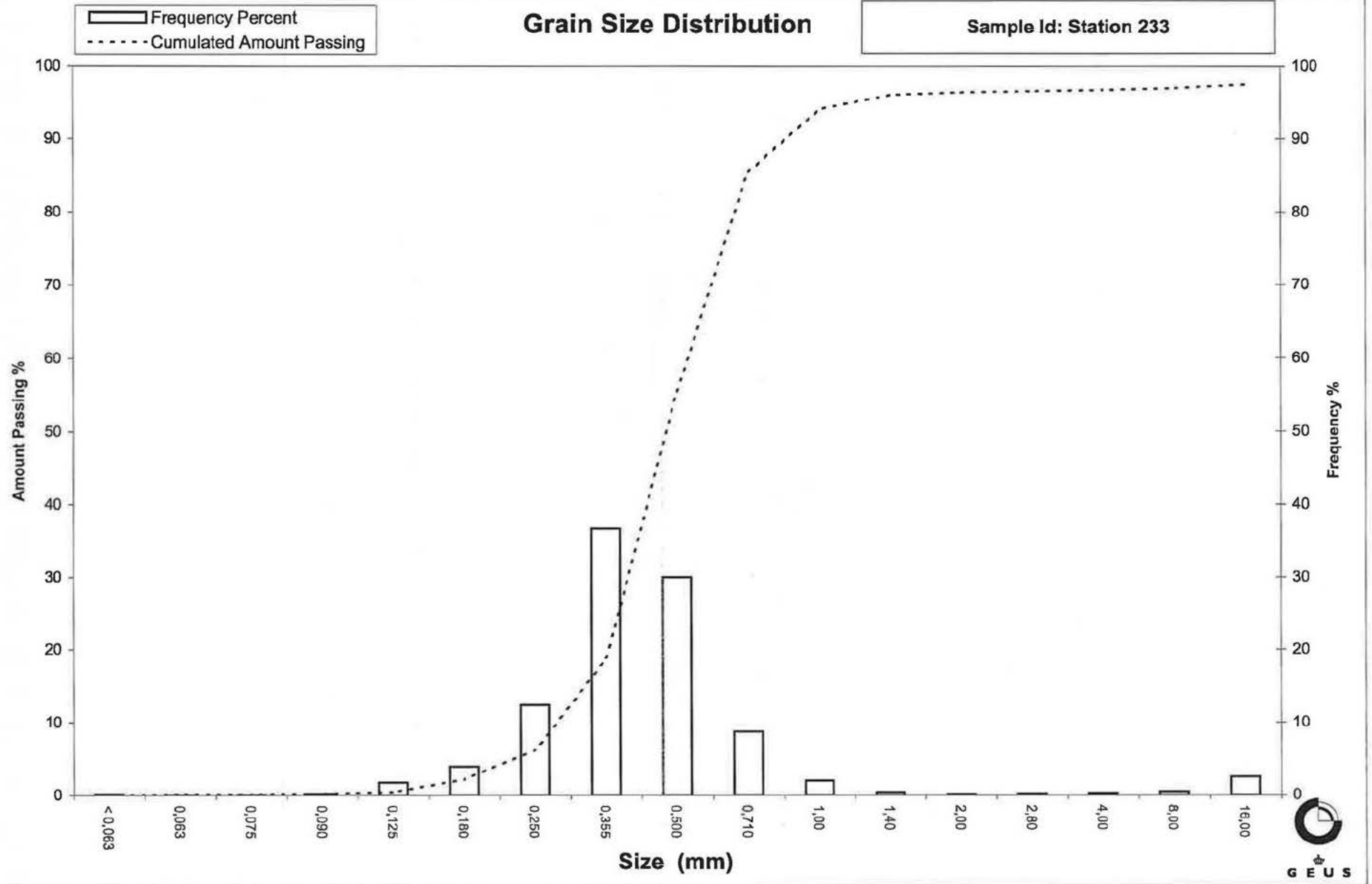
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Sample Id: Station 233



Grain Size Distribution

Geotechnical

Sample Id: Station 237
Lab. Id: 110042
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



GEUS

Total Weight 201,05 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,29	0,14	99,86
2,80	-1,49	0,33	0,16	99,69
2,00	-1,00	0,82	0,41	99,28
1,40	-0,49	1,97	0,98	98,30
1,00	0,00	6,39	3,18	95,13
0,710	0,49	17,60	8,75	86,37
0,500	1,00	43,99	21,88	64,49
0,355	1,49	62,13	30,90	33,59
0,250	2,00	48,27	24,01	9,58
0,180	2,47	15,77	7,84	1,74
0,125	3,00	2,06	1,02	0,71
0,090	3,47	0,18	0,09	0,62
0,075	3,74	0,03	0,01	0,61
0,063	3,99	0,07	0,03	0,57
< 0,063	> 3,99	1,15	0,57	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,57
Sand, fine (0,063 mm - 0,200 mm):	3,40
Sand, medium (0,2 mm - 0,6 mm):	70,93
Sand, coarse (0,6 mm - 2 mm):	24,37
Gravel (> 2 mm):	0,72
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,00	0,01
16%	84%	0,69	0,54
25%	75%	0,60	0,73
40%	60%	0,48	1,06
Median 50%	50%	0,43	1,21
75%	25%	0,32	1,66
84%	16%	0,28	1,85
90%	10%	0,25	1,99
95%	5%	0,21	2,26

Moments Statistics

Mean	1,20
Sorting	0,67
Skewness	-0,05
Kurtosis	1,00
Uniformity Coefficient	1,90

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

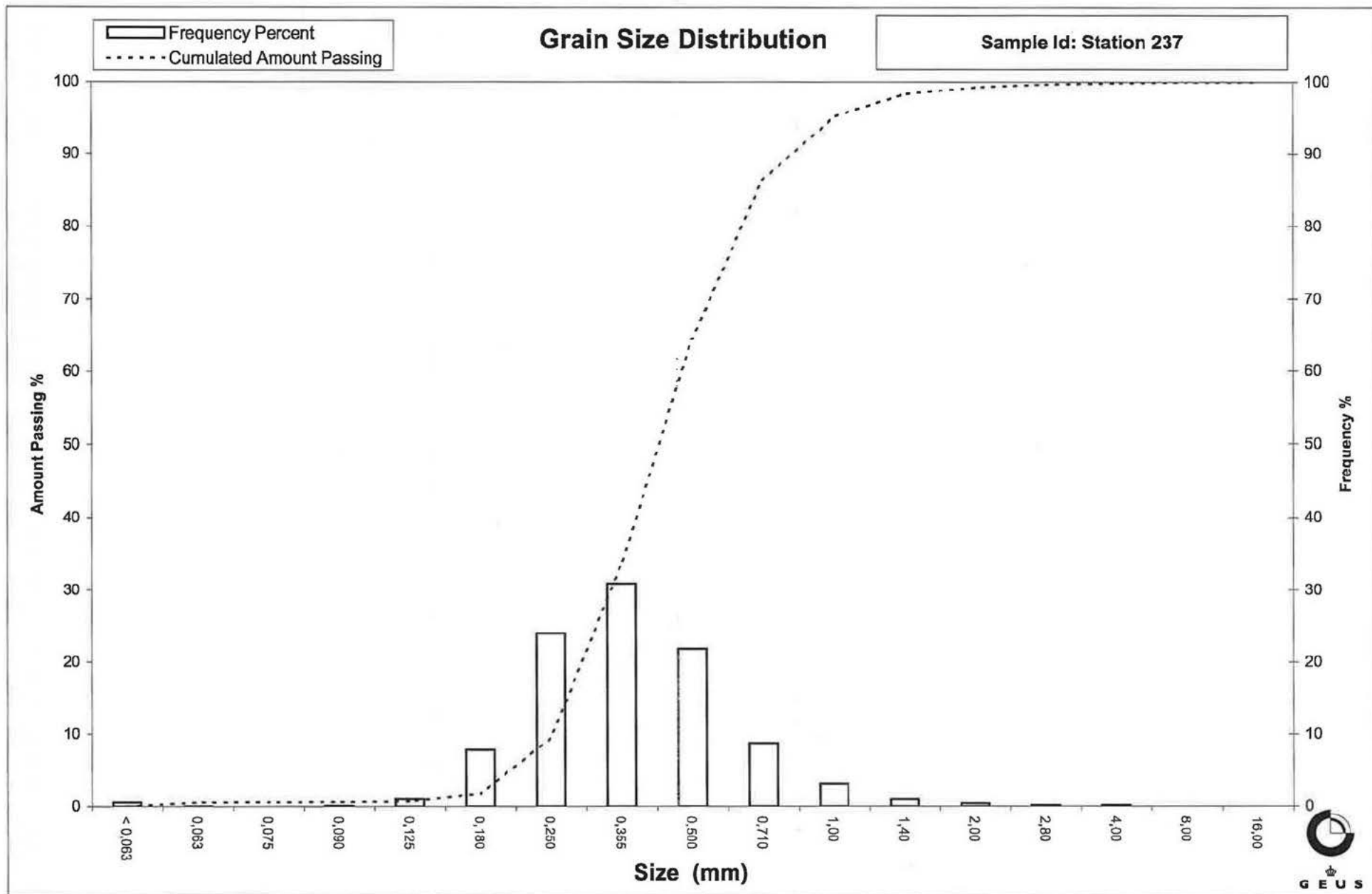
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 238
Lab. Id: 110043
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 103,52 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,07	0,07	99,93
2,80	-1,49	0,10	0,10	99,84
2,00	-1,00	0,34	0,33	99,51
1,40	-0,49	1,13	1,09	98,42
1,00	0,00	4,37	4,22	94,19
0,710	0,49	10,01	9,67	84,52
0,500	1,00	24,76	23,92	60,61
0,355	1,49	34,88	33,69	26,91
0,250	2,00	22,02	21,27	5,64
0,180	2,47	4,63	4,47	1,17
0,125	3,00	0,62	0,60	0,57
0,090	3,47	0,09	0,09	0,48
0,075	3,74	0,02	0,02	0,46
0,063	3,99	0,02	0,02	0,44
< 0,063	> 3,99	0,46	0,44	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,44
Sand, fine (0,063 mm - 0,200 mm):	2,00
Sand, medium (0,2 mm - 0,6 mm):	69,55
Sand, coarse (0,6 mm - 2 mm):	27,51
Gravel (> 2 mm):	0,49
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,08	-0,11
16%	84%	0,71	0,50
25%	75%	0,63	0,67
40%	60%	0,50	1,01
Median 50%	50%	0,45	1,14
75%	25%	0,35	1,53
84%	16%	0,30	1,73
90%	10%	0,27	1,88
95%	5%	0,24	2,06

Moments Statistics

Mean	1,12
Sorting	0,64
Skewness	-0,09
Kurtosis	1,03
Uniformity Coefficient	1,83

Size Classes and Percentiles are found by linear interpolation

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean ($\phi_{16\%} + \phi_{84\%} + \phi_{50\%}$) / 3 (Folk and Ward 1957)

Sorting ($\phi_{84\%} - \phi_{16\%}$) / 4 + ($\phi_{95\%} - \phi_{5\%}$) / 6,6 (Folk and Ward 1957)

Kurtosis ($\phi_{95\%} - \phi_{5\%}$) / (2,44 * ($\phi_{75\%} - \phi_{25\%}$)) (Folk and Ward 1957)

Skewness ($\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}$) / (2 * ($\phi_{84\%} - \phi_{16\%}$)) + ($\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}$) / (2 * ($\phi_{95\%} - \phi_{5\%}$)) (Folk and Ward 1957)

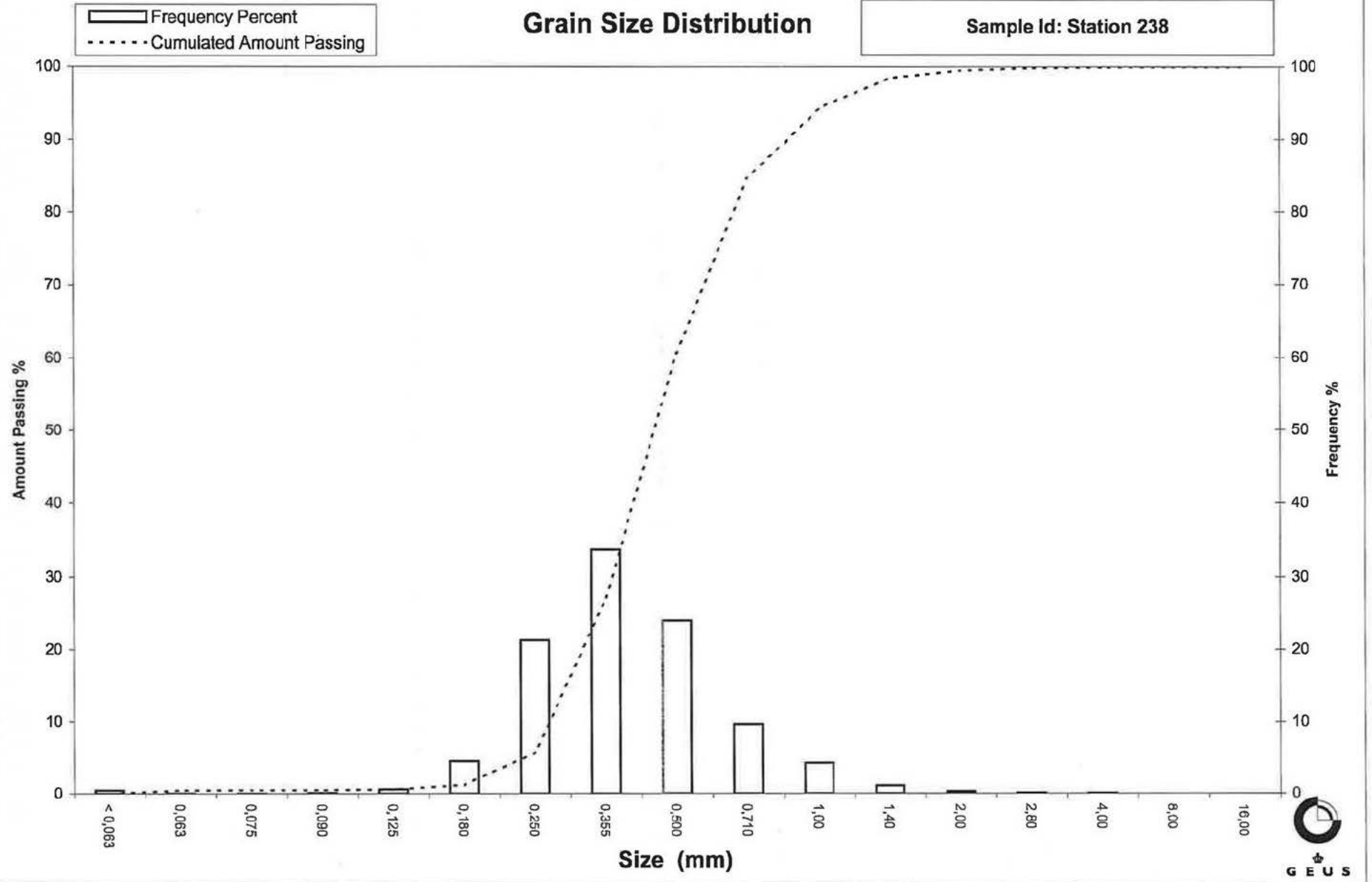
Uniformity Coefficient ($d_{60\%} / d_{10\%}$) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 238



Grain Size Distribution

Geotechnical

Sample Id: Station 239
Lab. Id: 110044
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 8mm.



Total Weight 201,63 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,26	0,13	99,87
2,80	-1,49	0,11	0,05	99,82
2,00	-1,00	0,85	0,42	99,39
1,40	-0,49	2,64	1,31	98,09
1,00	0,00	9,96	4,94	93,15
0,710	0,49	22,19	11,01	82,14
0,500	1,00	43,32	21,48	60,66
0,355	1,49	59,06	29,29	31,36
0,250	2,00	47,04	23,33	8,03
0,180	2,47	12,97	6,43	1,60
0,125	3,00	2,14	1,06	0,54
0,090	3,47	0,24	0,12	0,42
0,075	3,74	0,03	0,01	0,41
0,063	3,99	0,01	0,00	0,40
< 0,063	> 3,99	0,81	0,40	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,40
Sand, fine (0,063 mm - 0,200 mm):	3,04
Sand, medium (0,2 mm - 0,6 mm):	67,45
Sand, coarse (0,6 mm - 2 mm):	28,51
Gravel (> 2 mm):	0,61
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,15	-0,20
16%	84%	0,76	0,40
25%	75%	0,64	0,64
40%	60%	0,50	1,01
Median 50%	50%	0,45	1,16
75%	25%	0,33	1,62
84%	16%	0,29	1,81
90%	10%	0,26	1,95
95%	5%	0,22	2,20

Moments Statistics

Mean	1,12
Sorting	0,72
Skewness	-0,11
Kurtosis	1,01
Uniformity Coefficient	1,92

Size Classes and Percentiles
are found by linear interpolation

The analysis is executed according to DS405.9
DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

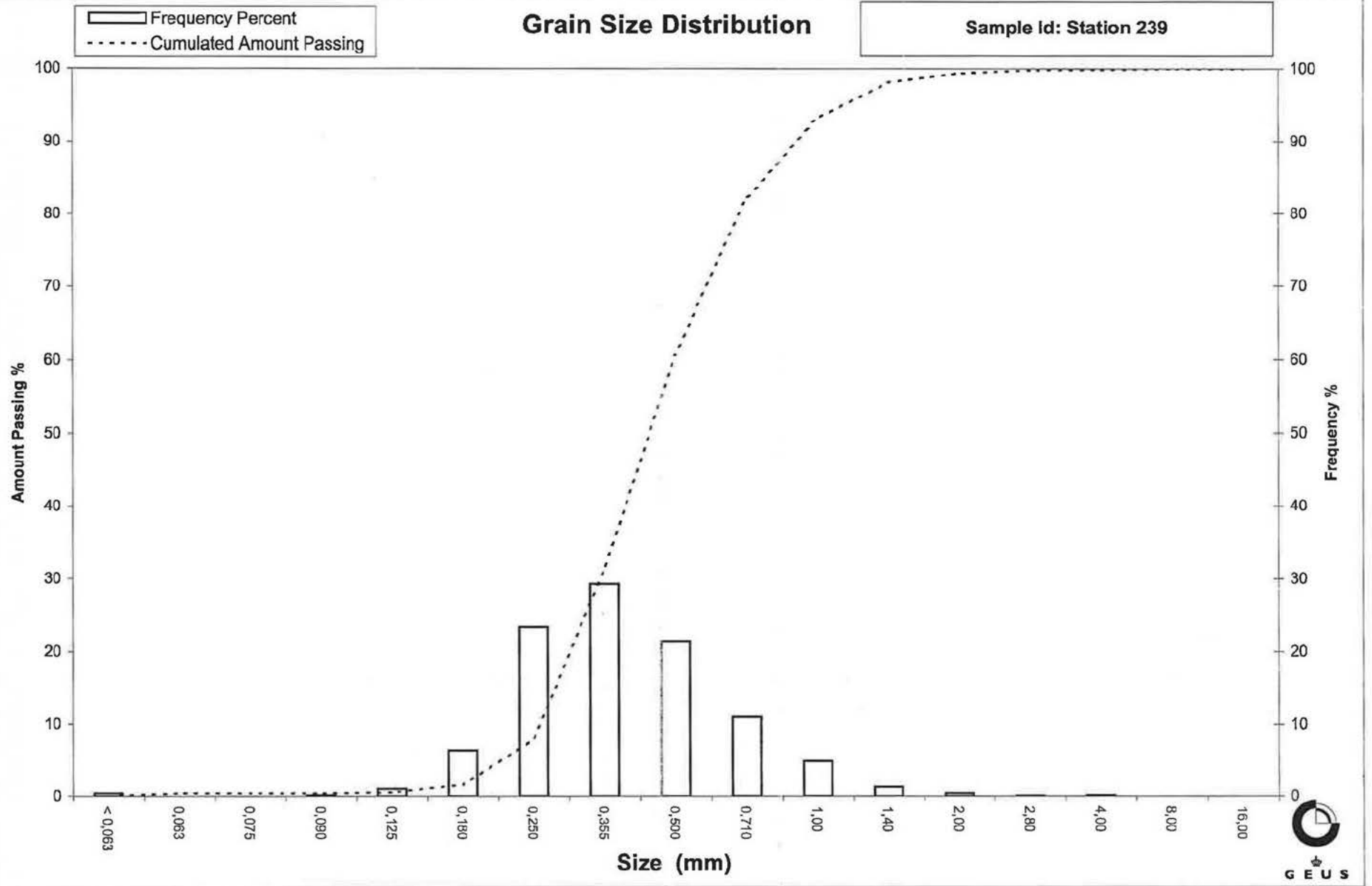
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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Grain Size Distribution

Sample Id: Station 239



Grain Size Distribution

Geotechnical

Sample Id: Station 243
Lab. Id: 110045
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 101,87 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,22	0,22	99,78
2,80	-1,49	0,10	0,10	99,69
2,00	-1,00	0,10	0,10	99,59
1,40	-0,49	0,13	0,13	99,46
1,00	0,00	0,28	0,27	99,19
0,710	0,49	0,63	0,62	98,57
0,500	1,00	1,73	1,70	96,87
0,355	1,49	5,16	5,07	91,80
0,250	2,00	18,22	17,89	73,92
0,180	2,47	38,82	38,11	35,81
0,125	3,00	31,72	31,14	4,67
0,090	3,47	3,65	3,58	1,09
0,075	3,74	0,29	0,28	0,80
0,063	3,99	0,09	0,09	0,72
< 0,063	> 3,99	0,73	0,72	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,72
Sand, fine (0,063 mm - 0,200 mm):	45,98
Sand, medium (0,2 mm - 0,6 mm):	50,98
Sand, coarse (0,6 mm - 2 mm):	1,91
Gravel (> 2 mm):	0,41
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,45	1,16
16%	84%	0,31	1,69
25%	75%	0,26	1,96
40%	60%	0,22	2,16
Median 50%	50%	0,21	2,28
75%	25%	0,16	2,64
84%	16%	0,15	2,79
90%	10%	0,13	2,90
95%	5%	0,13	2,99

Moments Statistics

Mean	2,25
Sorting	0,55
Skewness	-0,15
Kurtosis	1,12
Uniformity Coefficient	1,67

Size Classes and Percentiles
are found by linear interpolation

Formulas

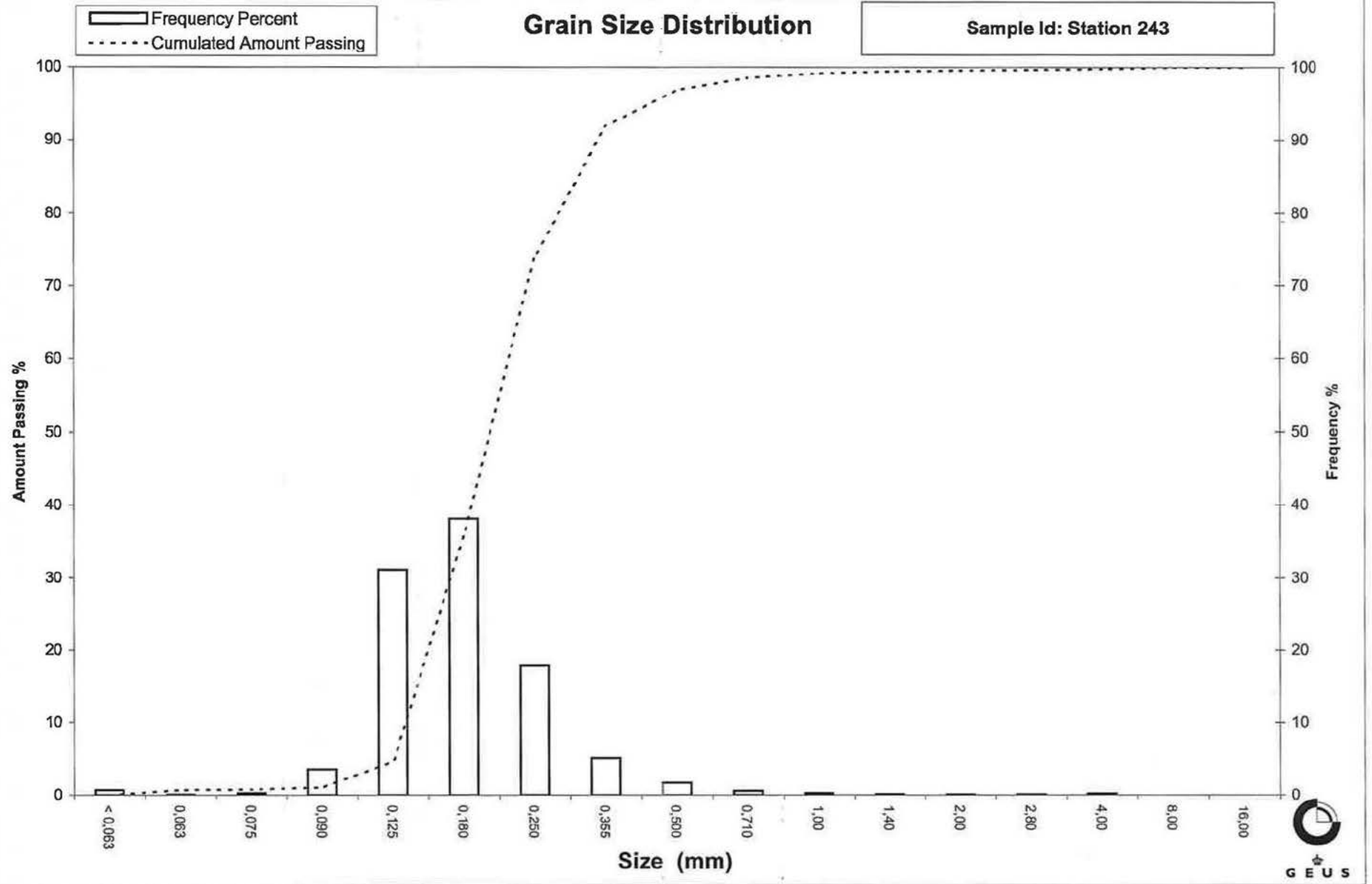
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 243



Grain Size Distribution

Geotechnical

Sample Id: Station 244
Lab. Id: 110046
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 107,02 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,01	0,01	99,99
2,80	-1,49	0,03	0,03	99,96
2,00	-1,00	0,06	0,06	99,91
1,40	-0,49	0,18	0,17	99,74
1,00	0,00	0,25	0,23	99,50
0,710	0,49	0,70	0,65	98,85
0,500	1,00	2,81	2,63	96,23
0,355	1,49	8,61	8,05	88,18
0,250	2,00	25,25	23,59	64,59
0,180	2,47	42,33	39,55	25,03
0,125	3,00	22,94	21,44	3,60
0,090	3,47	2,53	2,36	1,23
0,075	3,74	0,25	0,23	1,00
0,063	3,99	0,05	0,05	0,95
< 0,063	> 3,99	1,02	0,95	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,95
Sand, fine (0,063 mm - 0,200 mm):	35,38
Sand, medium (0,2 mm - 0,6 mm):	61,14
Sand, coarse (0,6 mm - 2 mm):	2,43
Gravel (> 2 mm):	0,09
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,48	1,07
16%	84%	0,34	1,57
25%	75%	0,30	1,75
40%	60%	0,24	2,05
Median 50%	50%	0,22	2,16
75%	25%	0,18	2,47
84%	16%	0,16	2,67
90%	10%	0,14	2,82
95%	5%	0,13	2,96

Moments Statistics

Mean	2,13
Sorting	0,56
Skewness	-0,11
Kurtosis	1,08
Uniformity Coefficient	1,71

Size Classes and Percentiles are found by linear interpolation

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

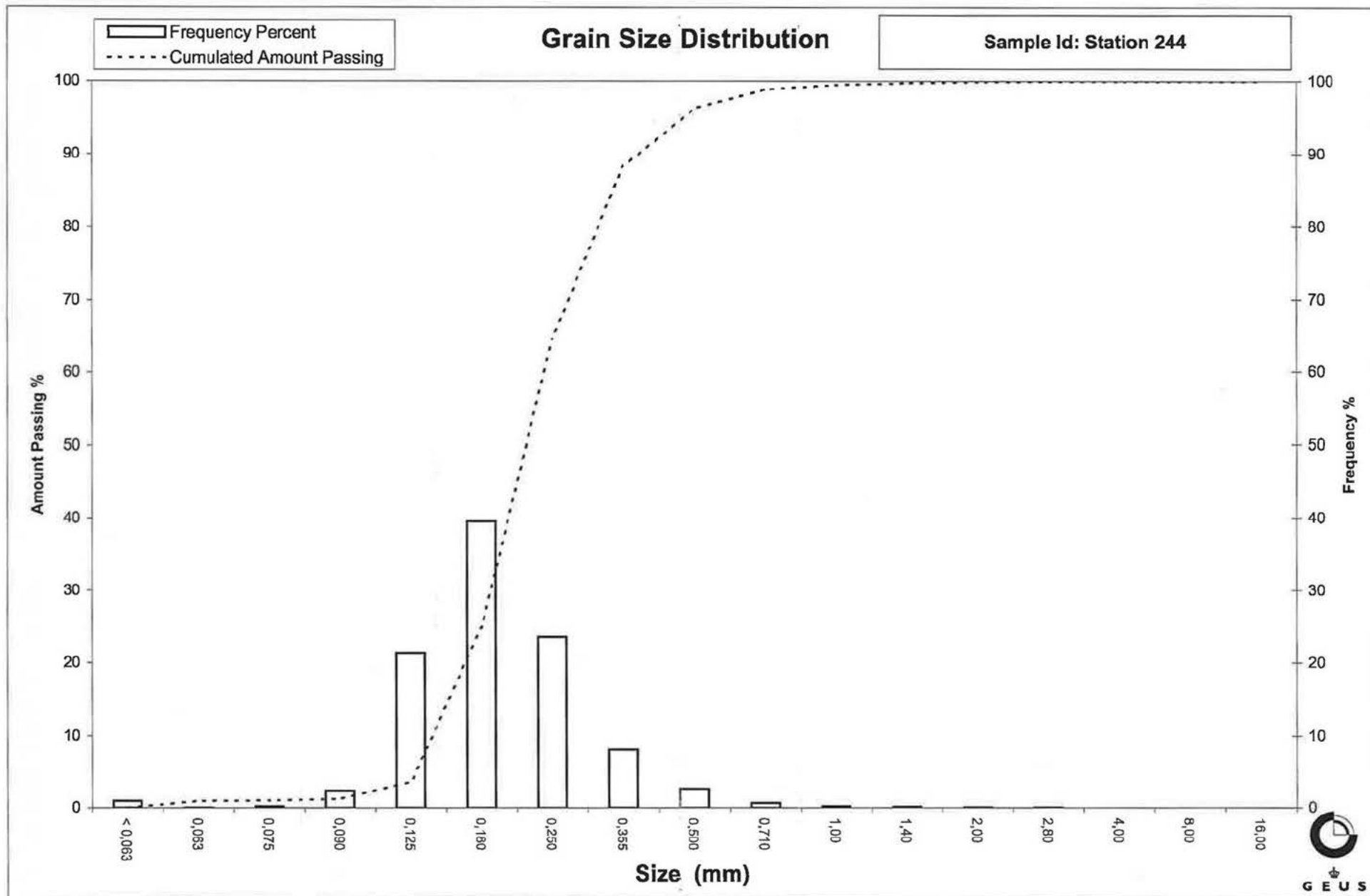
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 245
Lab. Id: 110047
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 106,27 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,01	0,01	99,99
2,00	-1,00	0,03	0,03	99,96
1,40	-0,49	0,07	0,07	99,90
1,00	0,00	0,27	0,25	99,64
0,710	0,49	0,73	0,69	98,96
0,500	1,00	2,43	2,29	96,67
0,355	1,49	8,11	7,63	89,04
0,250	2,00	28,34	26,67	62,37
0,180	2,47	42,46	39,95	22,41
0,125	3,00	20,84	19,61	2,80
0,090	3,47	1,78	1,67	1,13
0,075	3,74	0,13	0,12	1,01
0,063	3,99	0,05	0,05	0,96
< 0,063	> 3,99	1,02	0,96	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,96
Sand, fine (0,063 mm - 0,200 mm):	32,87
Sand, medium (0,2 mm - 0,6 mm):	63,93
Sand, coarse (0,6 mm - 2 mm):	2,20
Gravel (> 2 mm):	0,04
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,47	1,09
16%	84%	0,34	1,58
25%	75%	0,30	1,74
40%	60%	0,25	2,02
Median 50%	50%	0,23	2,13
75%	25%	0,18	2,44
84%	16%	0,16	2,63
90%	10%	0,15	2,78
95%	5%	0,13	2,93

Moments Statistics

Mean	2,11
Sorting	0,54
Skewness	-0,09
Kurtosis	1,08
Uniformity Coefficient	1,69

Size Classes and Percentiles are found by linear interpolation

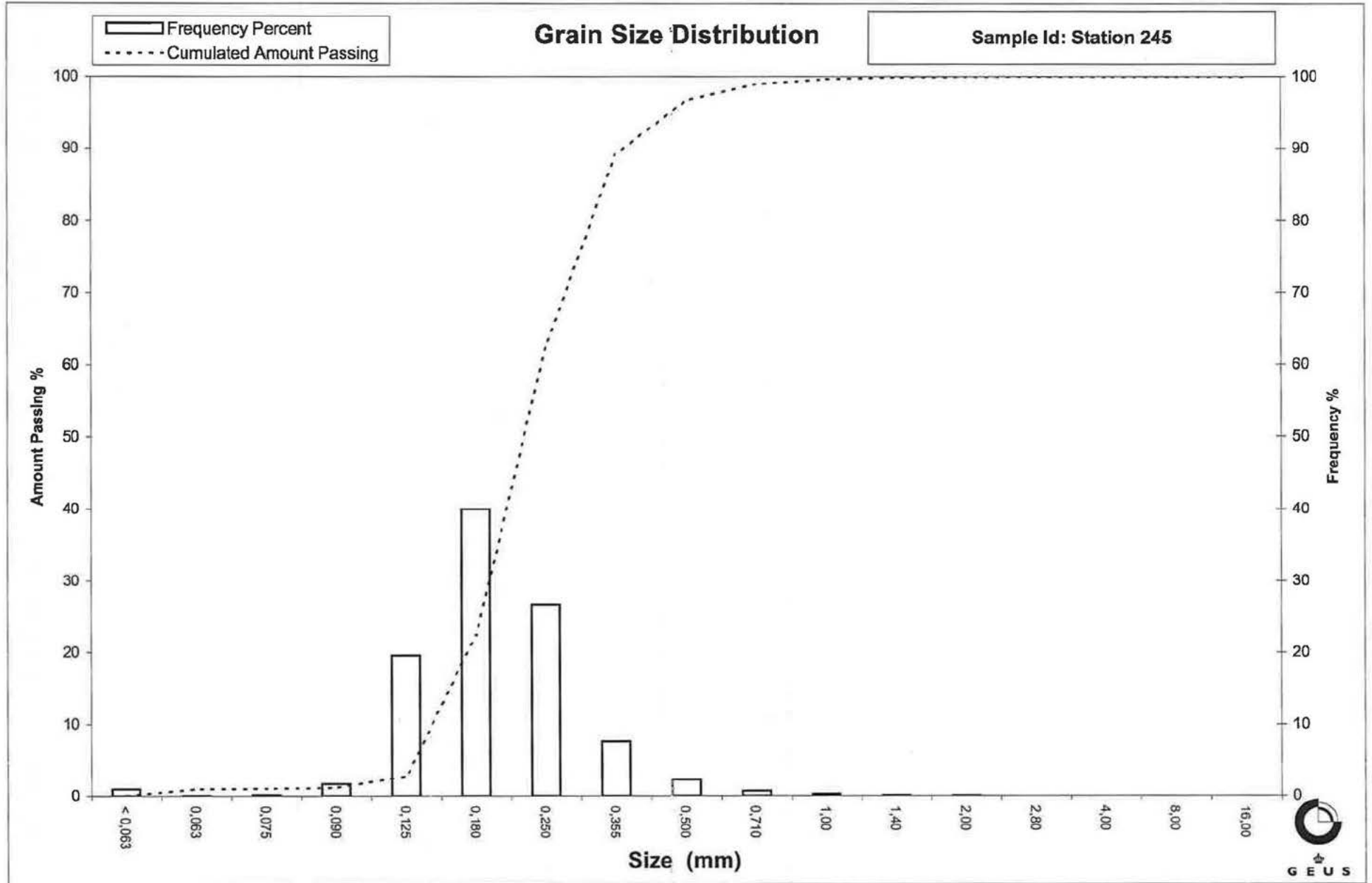
The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the ½ phi scale.

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Geotechnical

Sample Id: Station 249
Lab. Id: 110048
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 102,21 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,06	0,06	99,94
2,80	-1,49	0,06	0,06	99,88
2,00	-1,00	0,07	0,07	99,81
1,40	-0,49	0,07	0,07	99,75
1,00	0,00	0,30	0,29	99,45
0,710	0,49	0,63	0,62	98,84
0,500	1,00	1,01	0,99	97,85
0,355	1,49	2,51	2,46	95,39
0,250	2,00	7,47	7,31	88,08
0,180	2,47	24,68	24,15	63,94
0,125	3,00	55,56	54,36	9,58
0,090	3,47	7,76	7,59	1,99
0,075	3,74	0,51	0,50	1,49
0,063	3,99	0,27	0,26	1,22
< 0,063	> 3,99	1,25	1,22	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,22
Sand, fine (0,063 mm - 0,200 mm):	69,61
Sand, medium (0,2 mm - 0,6 mm):	27,48
Sand, coarse (0,6 mm - 2 mm):	1,50
Gravel (> 2 mm):	0,19
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,35	1,52
16%	84%	0,24	2,07
25%	75%	0,21	2,24
40%	60%	0,18	2,51
Median 50%	50%	0,17	2,59
75%	25%	0,14	2,83
84%	16%	0,13	2,93
90%	10%	0,13	3,00
95%	5%	0,10	3,27

Moments Statistics

Mean	2,53
Sorting	0,48
Skewness	-0,22
Kurtosis	1,21
Uniformity Coefficient	1,40

Size Classes and Percentiles are found by linear interpolation

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Formulas

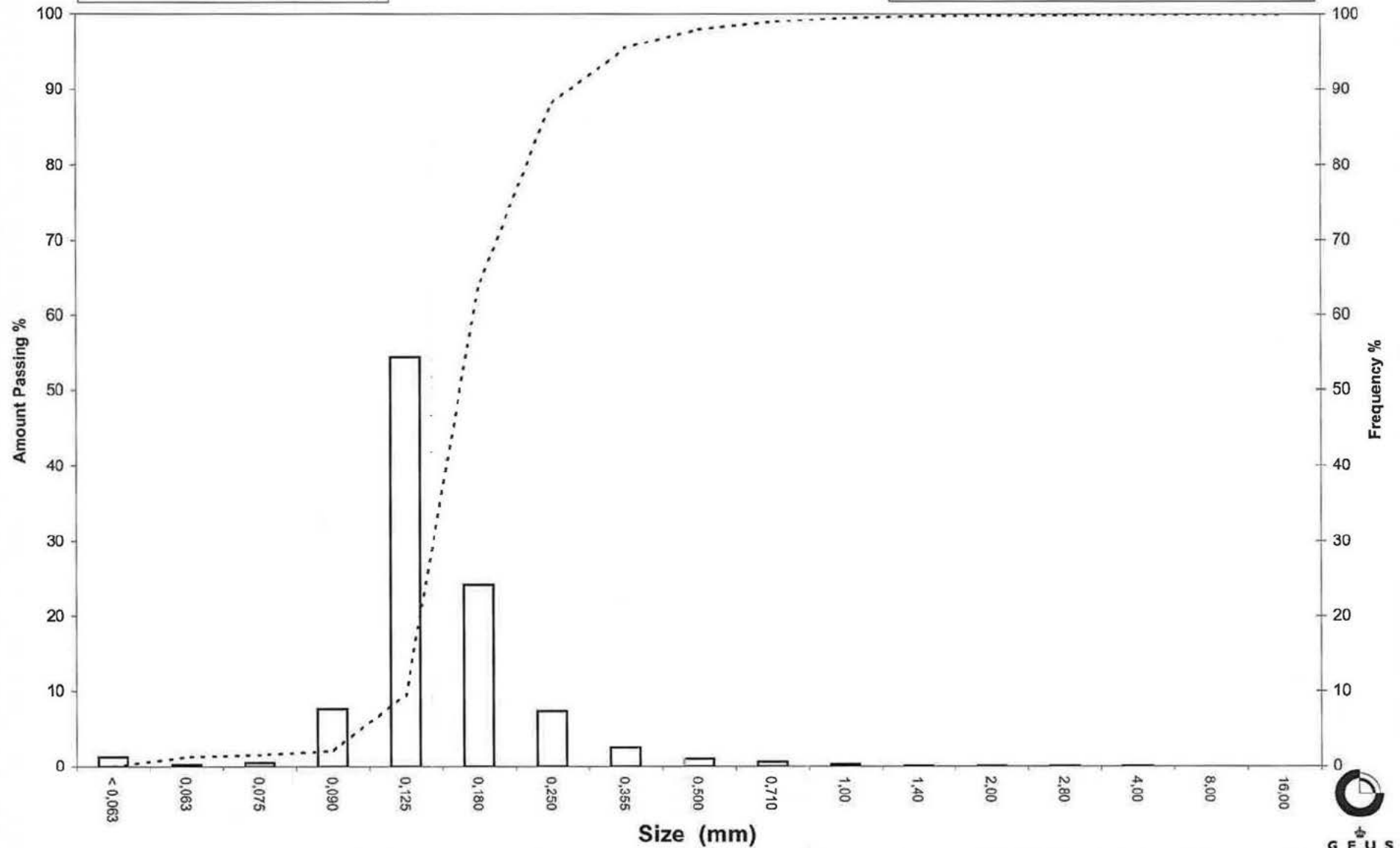
Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 249



Grain Size Distribution

Geotechnical

Sample Id: Station 250
Lab. Id: 110049
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 102,06 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,04	0,04	99,96
2,00	-1,00	0,02	0,02	99,94
1,40	-0,49	0,12	0,12	99,82
1,00	0,00	0,16	0,16	99,67
0,710	0,49	0,33	0,32	99,34
0,500	1,00	0,55	0,54	98,80
0,355	1,49	1,71	1,68	97,13
0,250	2,00	7,67	7,52	89,61
0,180	2,47	34,42	33,73	55,89
0,125	3,00	50,65	49,63	6,26
0,090	3,47	5,30	5,19	1,07
0,075	3,74	0,31	0,30	0,76
0,063	3,99	0,12	0,12	0,65
< 0,063	> 3,99	0,66	0,65	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,65
Sand, fine (0,063 mm - 0,200 mm):	64,88
Sand, medium (0,2 mm - 0,6 mm):	33,54
Sand, coarse (0,6 mm - 2 mm):	0,88
Gravel (> 2 mm):	0,06
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,33	1,62
16%	84%	0,24	2,07
25%	75%	0,22	2,19
40%	60%	0,19	2,41
Median 50%	50%	0,17	2,53
75%	25%	0,15	2,78
84%	16%	0,14	2,88
90%	10%	0,13	2,95
95%	5%	0,12	3,10

Moments Statistics

Mean	2,49
Sorting	0,43
Skewness	-0,18
Kurtosis	1,03
Uniformity Coefficient	1,46

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

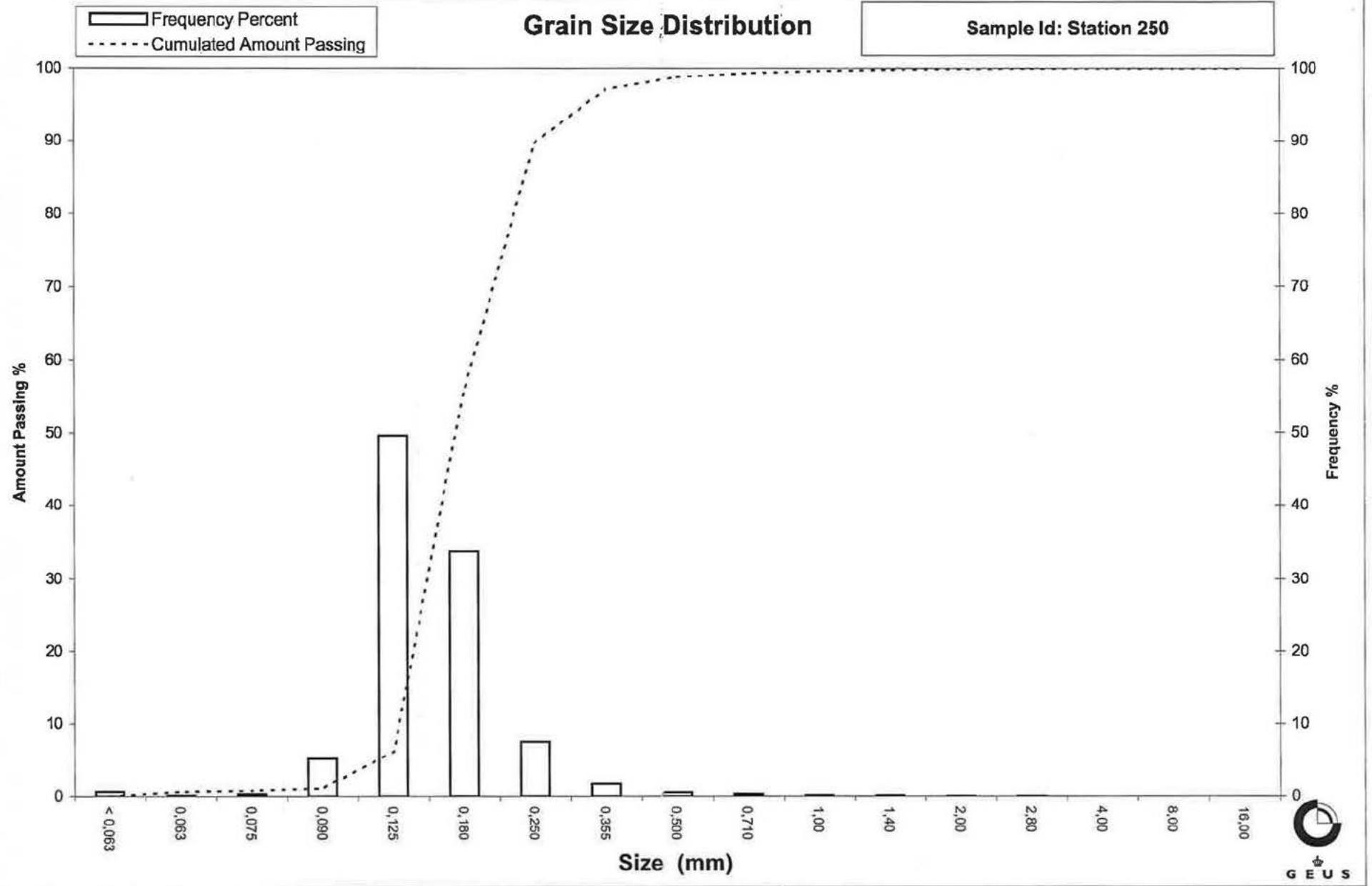
Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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Grain Size Distribution

Sample Id: Station 250



Grain Size Distribution

Geotechnical

Sample Id: Station 251
Lab. Id: 110050
Submitter: DTU Aqua
Subject: Tobisskrabetogt 2010
Date: Februar/marts 2011
Executed: I. Nørgaard
Remarks: For mat. < 2mm



Total Weight 100,53 g

Size Fractions

		Size	Size	Weight	Weight	Cumulated amount passing
		mm	Φ	g	%	%
Sieve Analysis	Gravel	16,00	-4,00	0,00	0,00	100,00
		8,00	-3,00	0,00	0,00	100,00
		4,00	-2,00	0,08	0,08	99,92
		2,80	-1,49	0,04	0,04	99,88
		2,00	-1,00	0,02	0,02	99,86
		1,40	-0,49	0,10	0,10	99,76
	Sand	1,00	0,00	0,23	0,23	99,53
		0,710	0,49	0,57	0,57	98,96
		0,500	1,00	0,63	0,63	98,33
		0,355	1,49	1,81	1,80	96,54
		0,250	2,00	6,45	6,41	90,13
		0,180	2,47	32,49	32,32	57,81
		0,125	3,00	50,27	50,01	7,80
		0,090	3,47	6,89	6,86	0,94
		0,075	3,74	0,40	0,39	0,55
		0,063	3,99	0,11	0,11	0,44
		< 0,063	> 3,99	0,44	0,44	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,44
Sand, fine (0,063 mm - 0,200 mm):	66,60
Sand, medium (0,2 mm - 0,6 mm):	31,59
Sand, coarse (0,6 mm - 2 mm):	1,23
Gravel (> 2 mm):	0,14
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,33	1,60
16%	84%	0,24	2,08
25%	75%	0,22	2,20
40%	60%	0,18	2,44
Median 50%	50%	0,17	2,54
75%	25%	0,14	2,80
84%	16%	0,13	2,90
90%	10%	0,13	2,97
95%	5%	0,11	3,18

Moments Statistics

Mean	2,51
Sorting	0,44
Skewness	-0,17
Kurtosis	1,09
Uniformity Coefficient	1,45

The analysis is executed according to DS405.9
 DS/EN933-1 extended by sieves to the 1/2 phi scale.

Size Classes and Percentiles
 are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
 "Amount in sieve". Uniformity coefficient is based on
 "Amount passing".

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