Phase I
t-Test: Paired Two Sample for Means - All Data

	m2	*m1*
Mean	26.21757	27.06052
Variance	249.154	248.6894
Observations	460	460
Pearson Correlation	0.955796	
Hypothesized Mean Difference	0	
df	459	
t Stat	-3.853914	
P(T<=t) one-tail	6.64E-05	
t Critical one-tail	1.648179	
P(T<=t) two-tail	0.000133	
t Critical two-tail	1.965145	

Phase I
t-Test: Paired Two Sample for Means - No Dredging

	m2	*m1*
Mean	27.25507	28.11875
Variance	267.3076	269.2836
Observations	109	109
Pearson Correlation	0.916457	
Hypothesized Mean Difference	0	
df	108	
t Stat	-1.346707	
P(T<=t) one-tail	0.090447	
t Critical one-tail	1.659087	
P(T<=t) two-tail	0.180894	
t Critical two-tail	1.982171	

Phase I
t-Test: Paired Two Sample for Means - Dredging

	m2	*m1*
Mean	25.59823	26.41962
Variance	244.7066	241.6967
Observations	315	315
Pearson Correlation	0.967017	
Hypothesized Mean Difference	0	
df	314	
t Stat	-3.638668	
P(T<=t) one-tail	0.00016	
t Critical one-tail	1.649721	
P(T<=t) two-tail	0.00032	
t Critical two-tail	1.967546	

Regression Analysis: M2 (Phase I)
SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.713902611
R Square	0.509656937
Adjusted R Square	0.507520366
Standard Error	10.97317064
Observations	462

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	2	57445.34687	28722.67	238.5397	9.32735E-72
Residual	459	55268.40753	120.4105		
Total	461	112713.7544			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	55501.85101	2542.1277	21.83283	5.36E-73	50506.20095	60497.50106	50506.20095	60497.50106
Dredging	-2.731124721	1.143266473	-2.388879	0.017303	-4.977809346	-0.4844401	-4.977809346	-0.484440096
date	-1.535021844	0.070342067	-21.82225	6.01E-73	-1.673254219	-1.39678947	-1.673254219	-1.396789469

Phase I
t-Test: Paired Two Sample for Means - All Data

	m3	*m1*
Mean	22.37034	26.55774
Variance	210.6035	230.1926
Observations	634	634
Pearson Correlation	0.915885	
Hypothesized Mean Difference	0	
df	633	
t Stat	-17.223	
P(T<=t) one-tail	4.17E-55	
t Critical one-tail	1.647263	
P(T<=t) two-tail	8.34E-55	
t Critical two-tail	1.963717	

Phase I
t-Test: Paired Two Sample for Means - No Dredging

	m3	*m1*
Mean	21.56098	25.64219
Variance	210.6586	234.0109
Observations	210	210
Pearson Correlation	0.927449	
Hypothesized Mean Difference	0	
df	209	
t Stat	-10.322	
P(T<=t) one-tail	9.46E-21	
t Critical one-tail	1.652177	
P(T<=t) two-tail	1.89E-20	
t Critical two-tail	1.97138	

Phase I
t-Test: Paired Two Sample for Means - Dredging

	m3	*m1*
Mean	22.59666	26.78359
Variance	212.62	226.331
Observations	388	388
Pearson Correlation	0.904242	
Hypothesized Mean Difference	0	
df	387	
t Stat	-12.6916	
P(T<=t) one-tail	2.12E-31	
t Critical one-tail	1.6488	
P(T<=t) two-tail	4.24E-31	
t Critical two-tail	1.966114	

Regression Analysis: M3 (Phase I)
SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.749599579
R Square	0.561899529
Adjusted R Square	0.560551528
Standard Error	9.555920357
Observations	653

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	2	76127.81202	38063.91	416.839	3.2468E-117
Residual	650	59355.14902	91.31561		
Total	652	135482.961			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	46089.66861	1600.601097	28.79522	3.6E-118	42946.69341	49232.6438	42946.69341	49232.64382
Dredging	-2.974823638	0.792345383	-3.75445	0.000189	-4.530690305	-1.418957	-4.5306903	-1.41895697
date	-1.274644363	0.04428589	-28.7822	4.3E-118	-1.361605103	-1.1876836	-1.3616051	-1.18768362

Phase I
t-Test: Paired Two Sample for Means - All Data

	m6	*m1*
Mean	22.765555	24.10276
Variance	210.92676	226.8766
Observations	641	641
Pearson Correlation	0.9280763	
Hypothesized Mean Difference	0	
df	640	
t Stat	-6.0076	
P(T<=t) one-tail	1.58E-09	
t Critical one-tail	1.6472382	
P(T<=t) two-tail	3.159E-09	
t Critical two-tail	1.9636764	

Phase I
t-Test: Paired Two Sample for Means - No Dredging

	m6	*m1*
Mean	19.916481	20.49718
Variance	197.28565	210.0023
Observations	237	237
Pearson Correlation	0.8887906	
Hypothesized Mean Difference	0	
df	236	
t Stat	-1.325753	
P(T<=t) one-tail	0.0931017	
t Critical one-tail	1.6513354	
P(T<=t) two-tail	0.1862033	
t Critical two-tail	1.9700656	

Phase I
t-Test: Paired Two Sample for Means

	m6	*m1*
Mean	24.12392	25.90034
Variance	208.49158	222.4029
Observations	368	368
Pearson Correlation	0.9432385	
Hypothesized Mean Difference	0	
df	367	
t Stat	-6.860943	
P(T<=t) one-tail	1.46E-11	
t Critical one-tail	1.6490162	
P(T<=t) two-tail	2.92E-11	
t Critical two-tail	1.9664503	

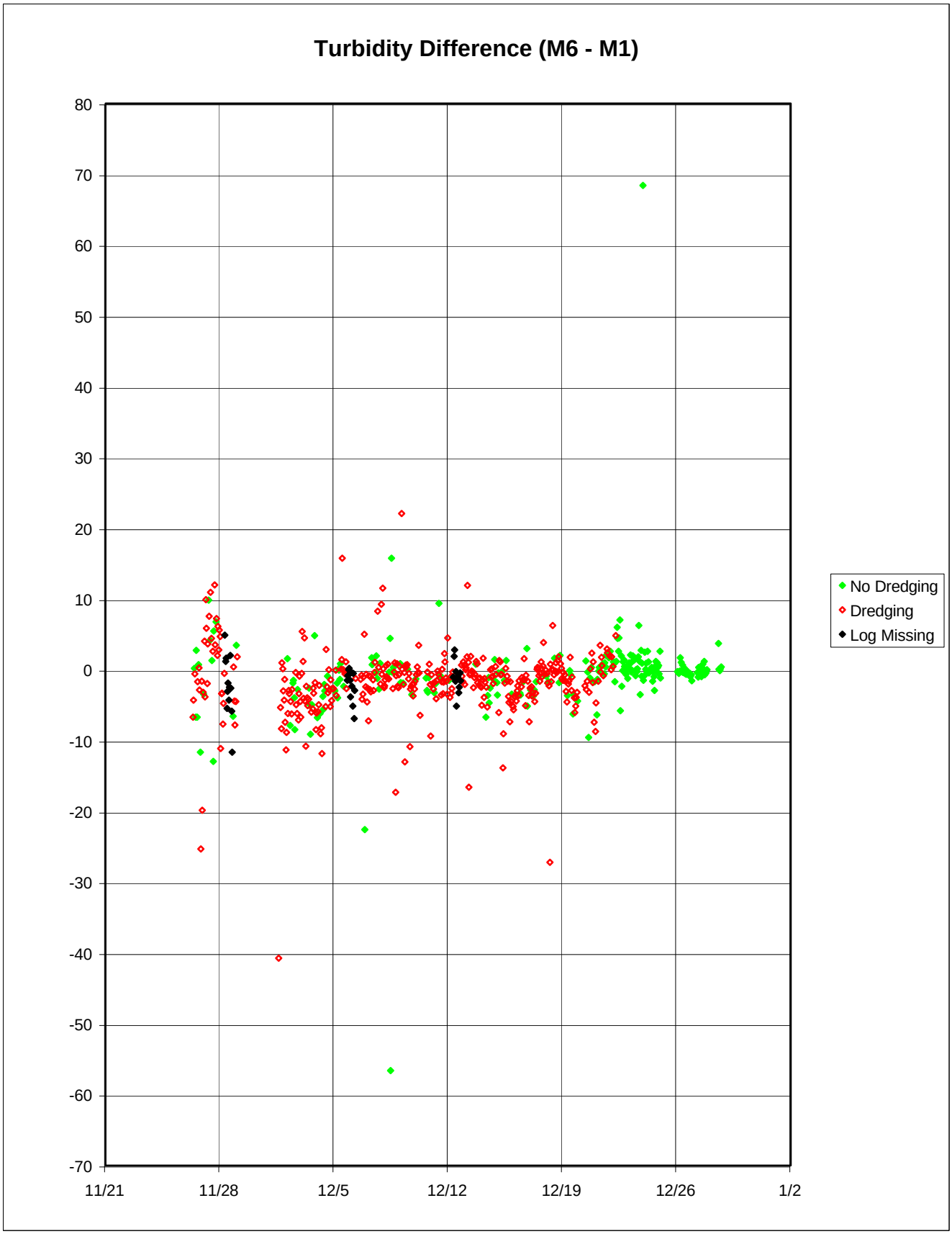
Regression Analysis: M6 (Phase I)
SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.76520393
R Square	0.58553706
Adjusted R Square	0.58438096
Standard Error	9.46258676
Observations	720

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	2	90700.06259	45350.03	506.4748	7.3897E-138
Residual	717	64200.57304	89.54055		
Total	719	154900.6356			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	43926.1491	1422.924156	30.87034	9.1E-134	41132.55595	46719.742	41132.55595	46719.74219
Dredging	-3.3216411	0.769245274	-4.31805	1.8E-05	-4.83188207	-1.8114002	-4.83188207	-1.81140021
date	-1.2146912	0.039364107	-30.8578	1.1E-133	-1.291973819	-1.1374086	-1.291973819	-1.13740859



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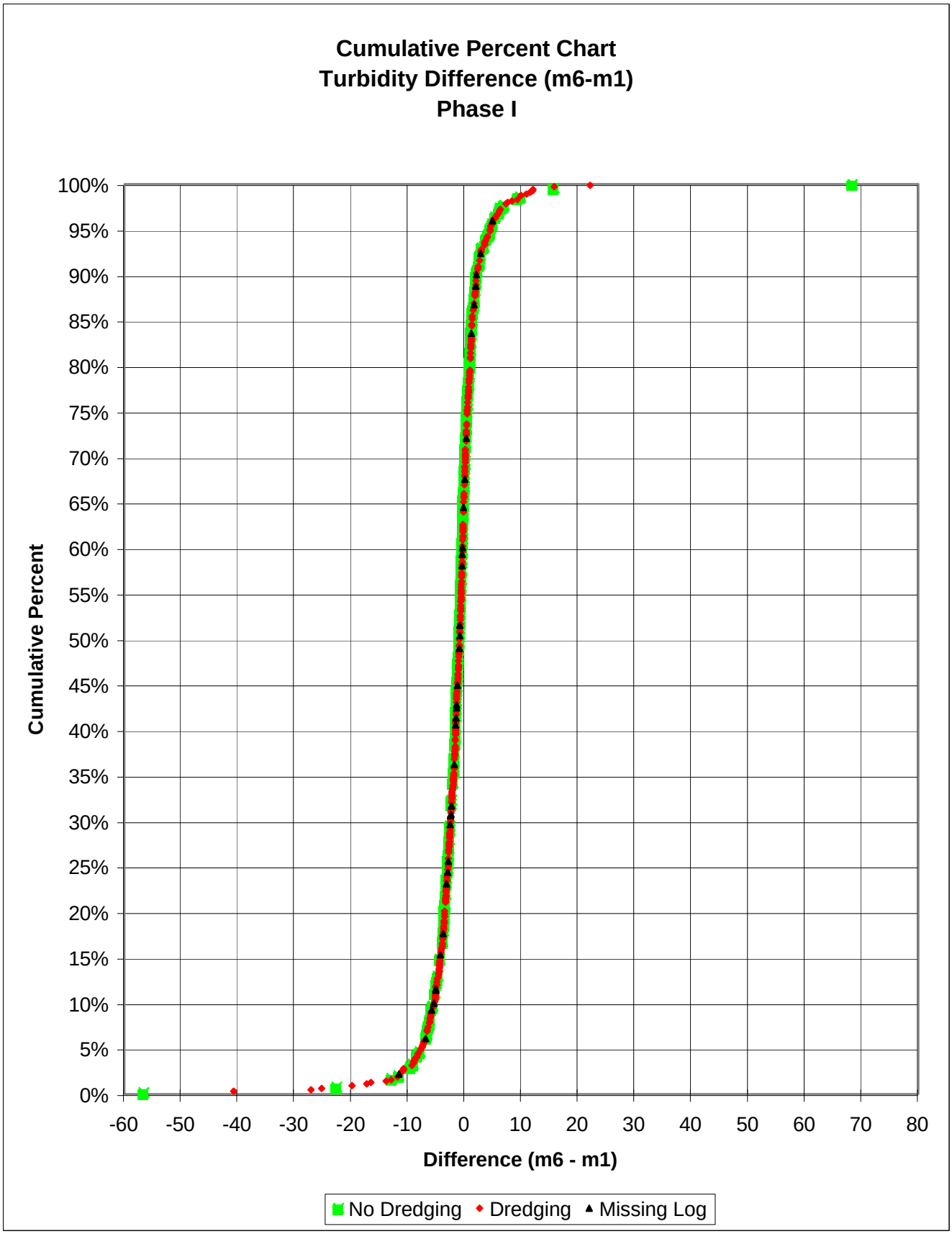

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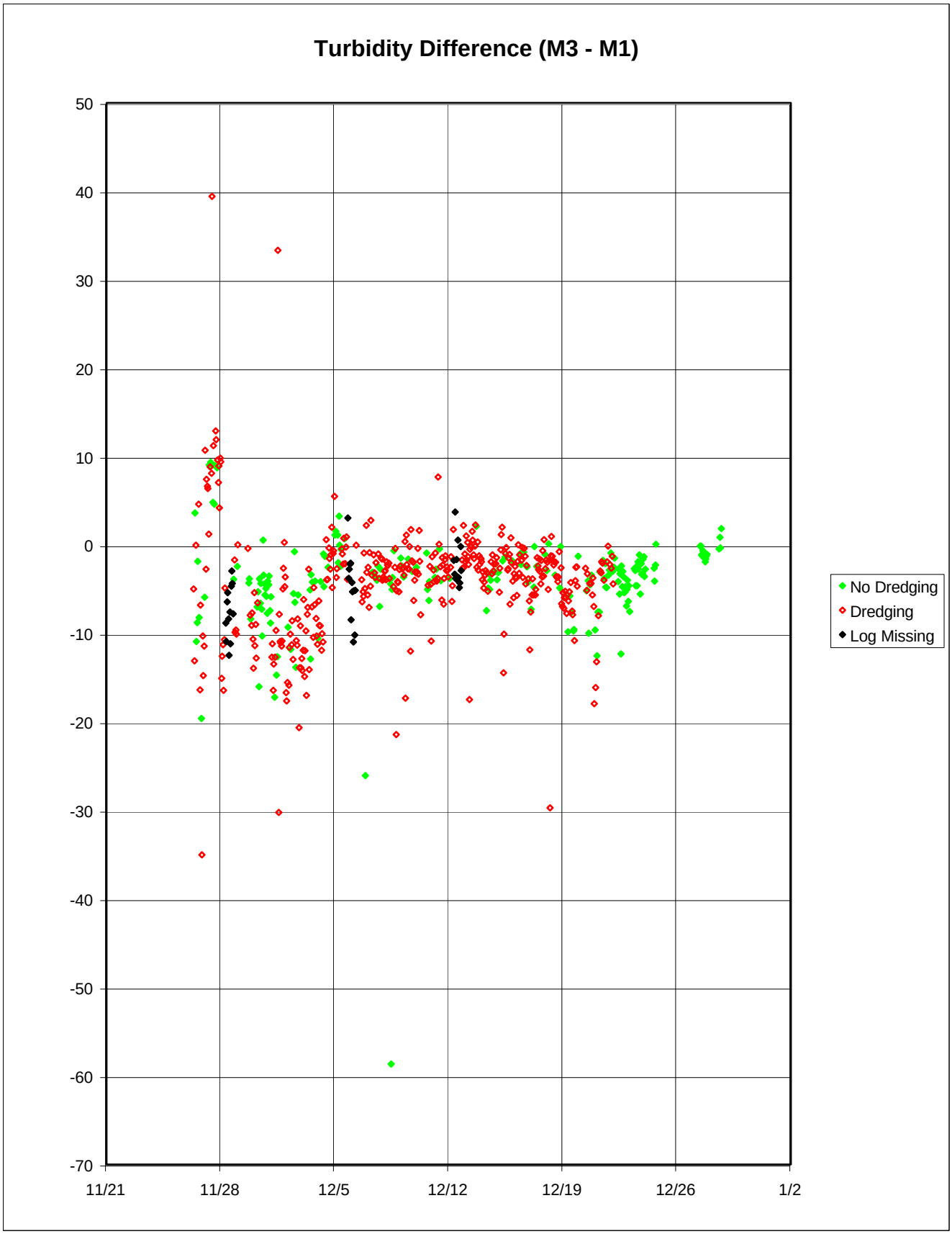

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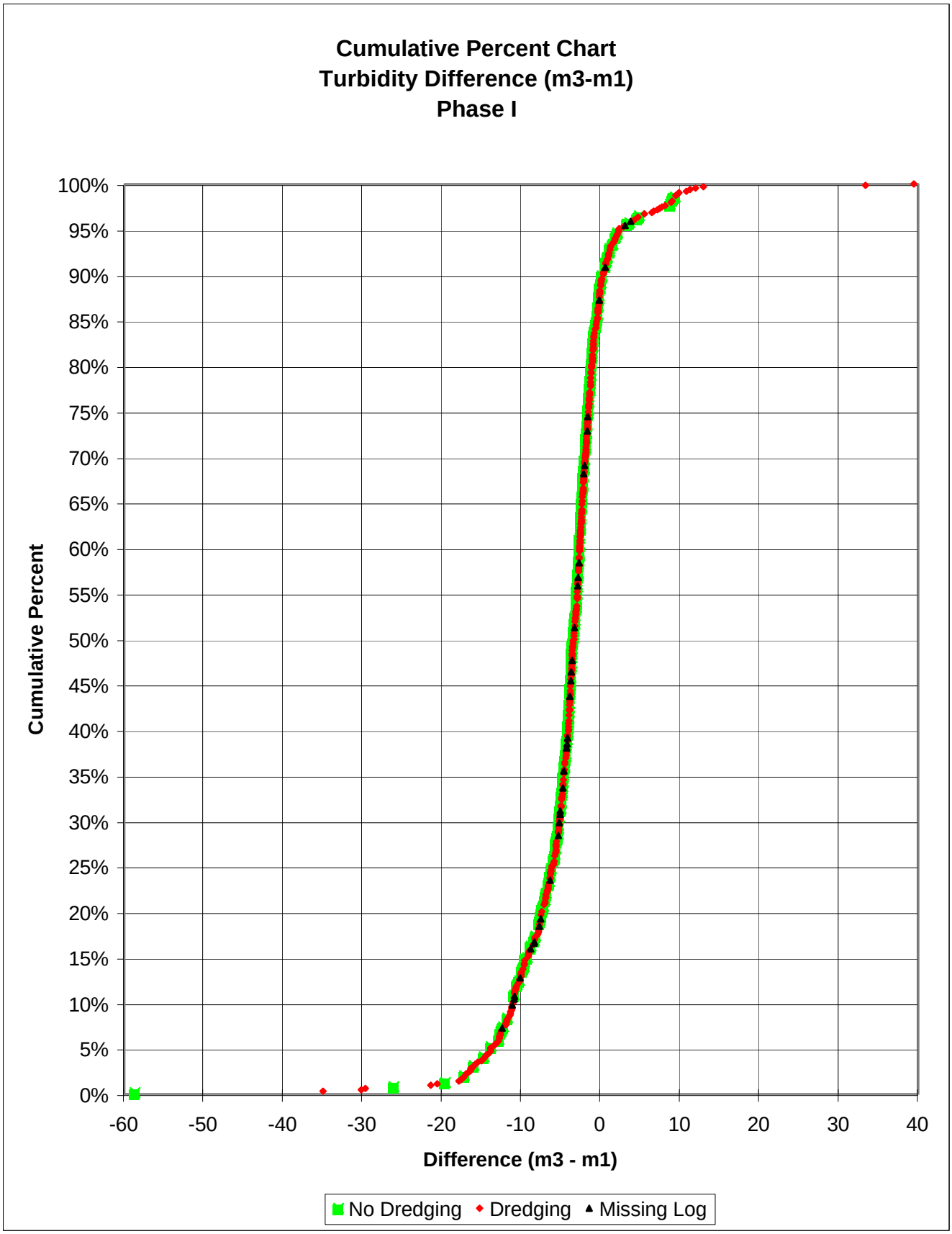

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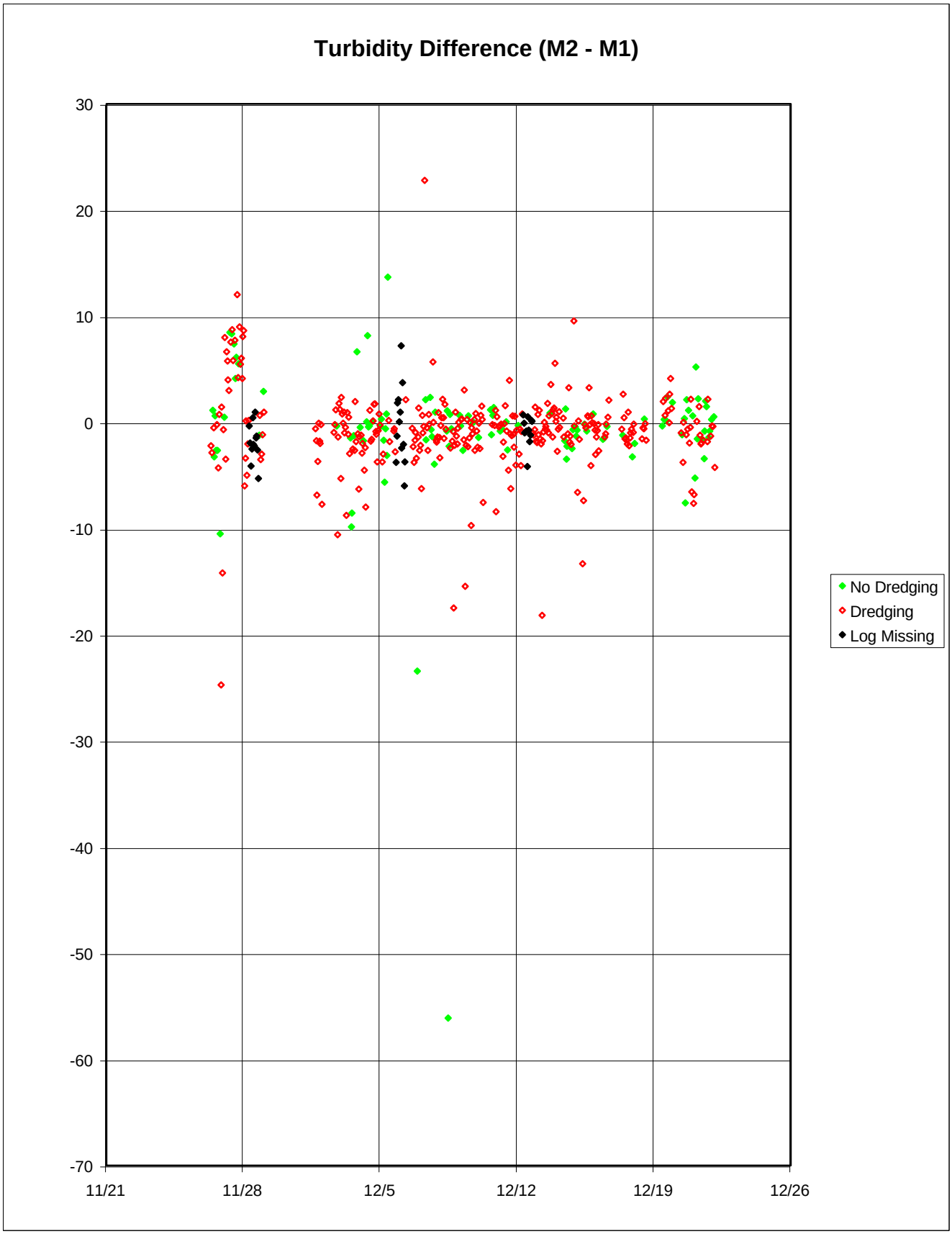

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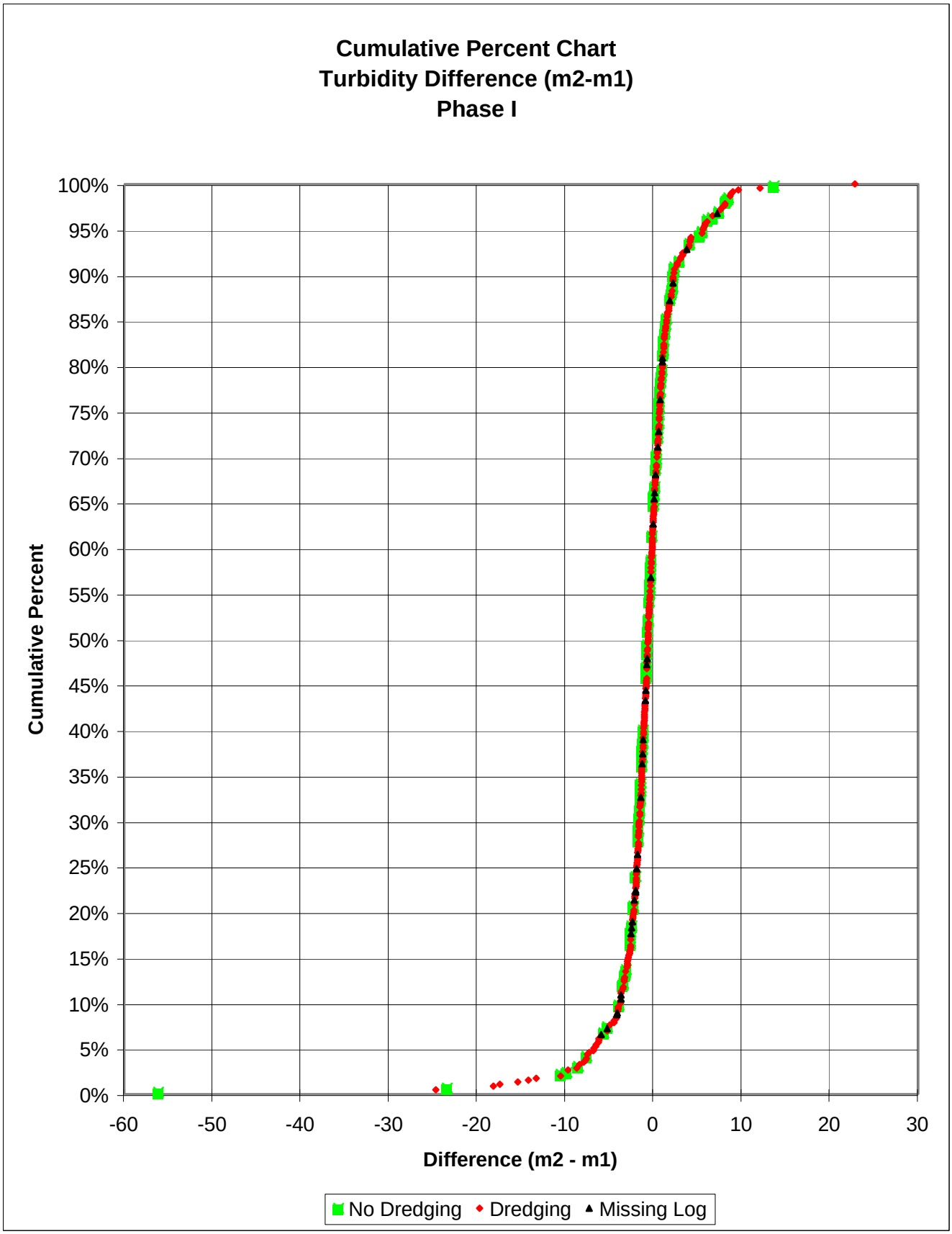

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