

**Table S9: Multiple Regression Summary for Mean Reflectivity, KDVN Fall 2016**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-1.840e+00	1.819e-03	-1011.1	<2e-16
Sin(azimuth)	5.840e-02	1.156e-03	50.5	<2e-16
Distance from water	3.492e-02	3.376e-05	1034.3	<2e-16
Residual Standard Error, 243010 DF	0.4076			
Multiple R <sup>2</sup>	0.8152		Adjusted R <sup>2</sup>	0.8152
F-statistic, 2, 243010 DF	5.36e+05		p-value	< 2.2e-16

**Table S10: Multiple Regression Summary for Mean Reflectivity, KDVN Spring 2017**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-1.507e+00	2.166e-03	-695.77	<2e-16
Sin(azimuth)	-1.081e-01	1.353e-03	-79.92	<2e-16
Distance from water	2.739e-02	3.996e-05	685.54	<2e-16
Residual Standard Error, 240354 DF	0.4741			
Multiple R <sup>2</sup>	0.6648		Adjusted R <sup>2</sup>	0.6648
F-statistic, 2, 240354 DF	2.383e+05		p-value	< 2.2e-16

**Table S11: Multiple Regression Summary for Mean Reflectivity, KILX Fall 2016**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-2.098e+00	1.601e-03	-1310.03	<2e-16
Sin(azimuth)	-7.477e-02	1.021e-03	-73.22	<2e-16
Distance from water	3.210e-02	2.984e-05	1075.75	<2e-16
Residual Standard Error, 236100 DF	0.3554			
Multiple R <sup>2</sup>	0.8313		Adjusted R <sup>2</sup>	0.8313
F-statistic, 2, 236100 DF	5.815e+05		p-value	< 2.2e-16

**Table S12: Multiple Regression Summary for Mean Reflectivity, KILX Spring 2017**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-2.021e+00	2.155e-03	-937.9	<2e-16
Sin(azimuth)	-1.500e-01	1.311e-03	-114.4	<2e-16
Distance from water	3.508e-02	3.953e-05	887.4	<2e-16
Residual Standard Error, 229050 DF	0.4494			
Multiple R <sup>2</sup>	0.7775		Adjusted R <sup>2</sup>	0.7775
F-statistic, 2, 229050 DF	4.001e+05		p-value	< 2.2e-16

**Table S13: Multiple Regression Summary for Mean Reflectivity, KLOT Fall 2016**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-1.222e+00	3.010e-03	-405.86	<2e-16
Sin(azimuth)	-2.757e-02	1.994e-03	-13.83	<2e-16
Distance from water	2.297e-02	5.826e-05	394.22	<2e-16
Residual Standard Error, 219026 DF	0.6513			
Multiple R <sup>2</sup>	0.4186		Adjusted R <sup>2</sup>	0.4186
F-statistic, 2, 219026	7.885e+04		p-value	< 2.2e-16

**Table S14: Multiple Regression Summary for Mean Reflectivity, KLOT Spring 2017**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-1.486e+00	2.533e-03	-586.7	<2e-16
Sin(azimuth)	-3.358e-01	1.628e-03	-206.3	<2e-16
Distance from water	110e-02	4.858e-05	434.3	<2e-16
Residual Standard Error, 213778 DF	0.5263			
Multiple R <sup>2</sup>	0.5378		Adjusted R <sup>2</sup>	0.5378
F-statistic, 2, 213778 DF	1.244e+05		p-value	< 2.2e-16

**Table S15: Multiple Regression Summary for Mean Reflectivity, KLSX Fall 2016**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-8.604e-01	2.061e-03	-417.5	<2e-16
Sin(azimuth)	2.096e-01	1.315e-03	159.4	<2e-16
Distance from water	3.189e-02	3.844e-05	829.6	<2e-16
Residual Standard Error, 244225 DF	0.4673			
Multiple R <sup>2</sup>	0.7454		Adjusted R <sup>2</sup>	0.7453
F-statistic, 2, 244225 DF	3.574e+05		p-value	< 2.2e-16

**Table S16: Multiple Regression Summary for Mean Reflectivity, KLSX Spring 2017**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-9.697e-01	1.887e-03	-513.84	<2e-16
Sin(azimuth)	-7.992e-02	1.197e-03	-66.78	<2e-16
Distance from water	2.604e-02	3.511e-05	741.86	<2e-16
Residual Standard Error, 243030 DF	0.4237			
Multiple R <sup>2</sup>	0.6955		Adjusted R <sup>2</sup>	0.6955
F-statistic, 2, 243030 DF	2.775e+05		p-value	< 2.2e-16

**Table S17: Multiple Regression Summary for Mean Reflectivity, KVWX Fall 2016**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-1.387e+00	1.445e-03	-960.00	<2e-16
Sin(azimuth)	-8.325e-02	9.239e-04	-90.11	<2e-16
Distance from water	3.214e-02	2.703e-05	1188.85	<2e-16
Residual Standard Error, 234334 DF	0.3186			
Multiple R <sup>2</sup>	0.8589		Adjusted R <sup>2</sup>	0.8589
F-statistic, 2, 234334 DF	7.133e+05		p-value	< 2.2e-16

**Table S18: Multiple Regression Summary for Mean Reflectivity, KVWX Spring 2017**

<b>Coefficients</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t-statistic</b>	<b>Probability &gt;t</b>
Intercept	-1.197e+00	1.785e-03	-670.3	<2e-16
Sin(azimuth)	-1.703e-01	1.129e-03	-150.8	<2e-16
Distance from water	3.548e-02	3.329e-05	1065.9	<2e-16
Residual Standard Error, 232640 DF	0.388			
Multiple R <sup>2</sup>	0.8336		Adjusted R <sup>2</sup>	0.8336
F-statistic, 2, 232640 DF	5.828e+05		p-value	< 2.2e-16