

Port Valdez Weather Buoy Analysis

PWSRCAC Board Meeting, 1/27/23

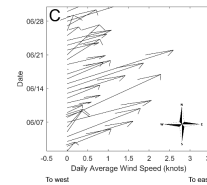
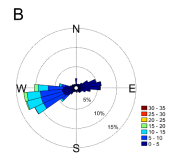
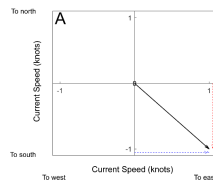
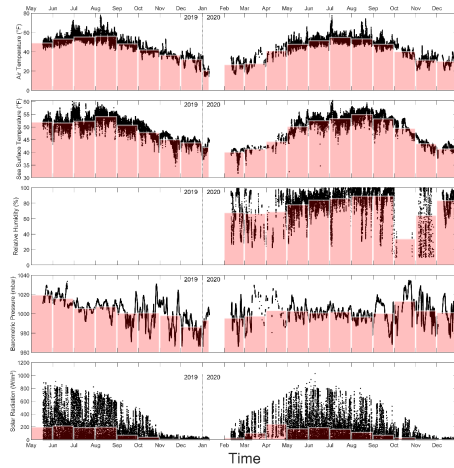
Rob Campbell

PWS Science Center



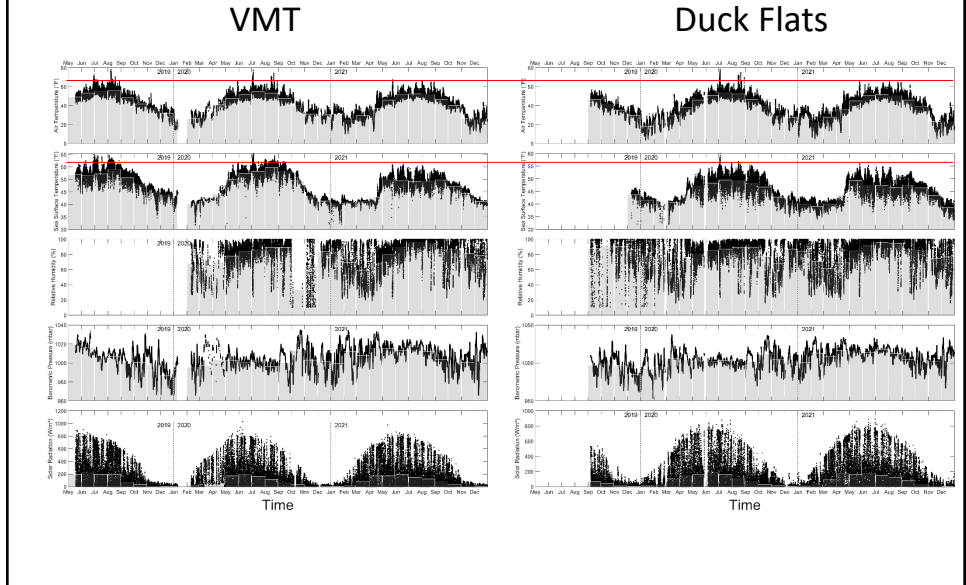
1

Scalars vs Vectors

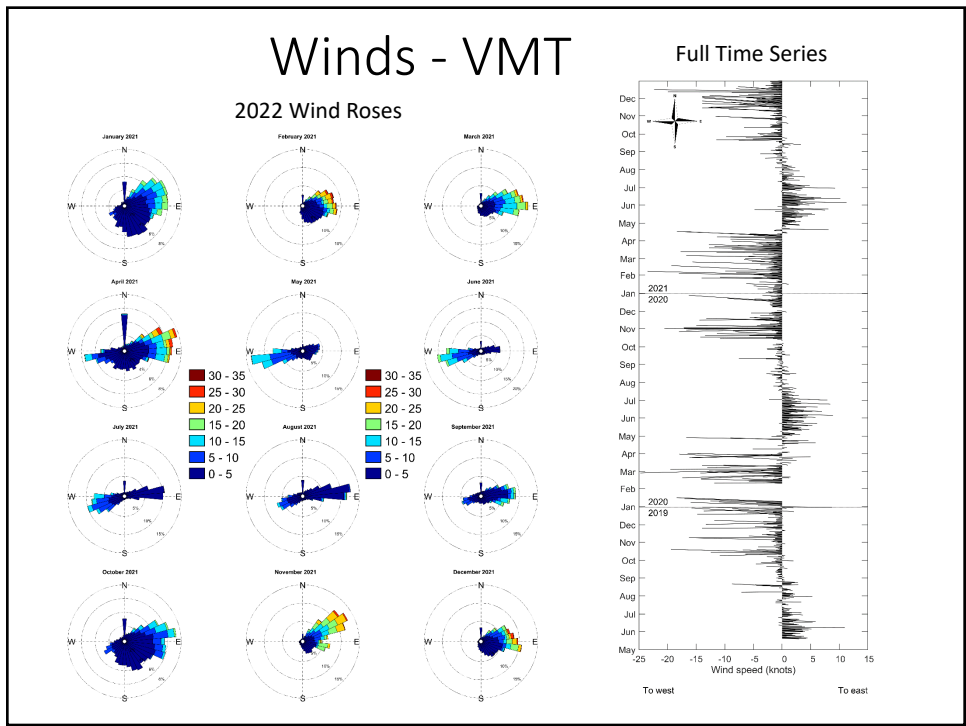


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Monthly Averages – Met and Oceanographic



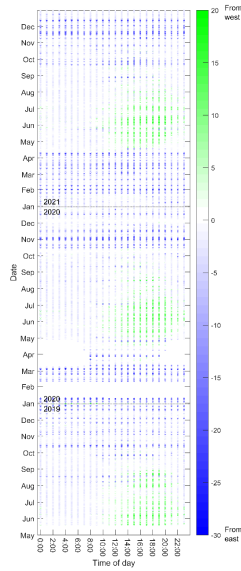
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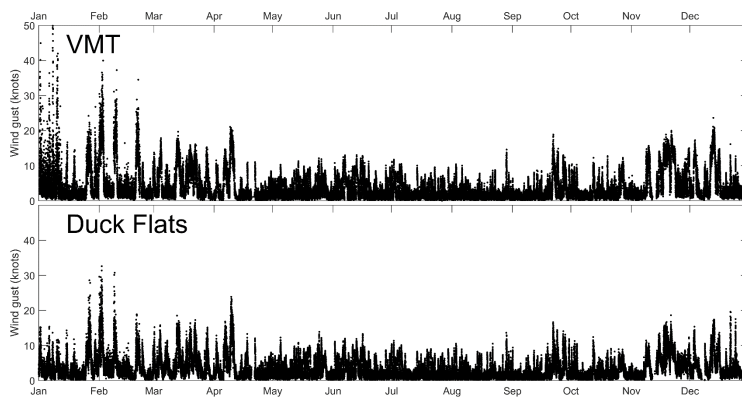
Sea Breezes at VMT

Daily Average East-West Winds

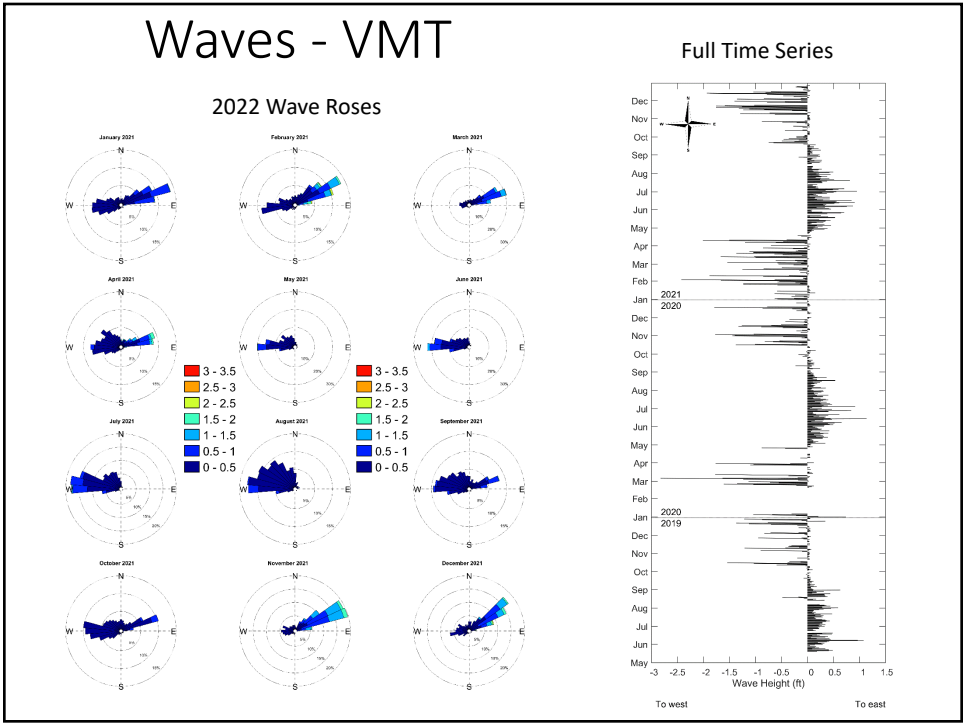


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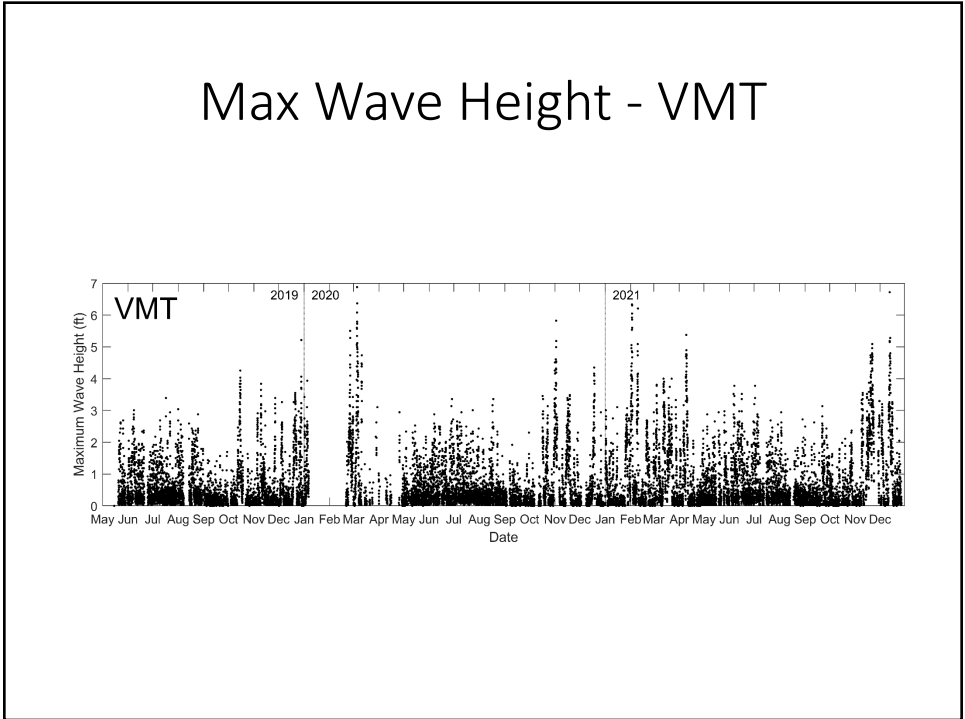
Wind Gusts



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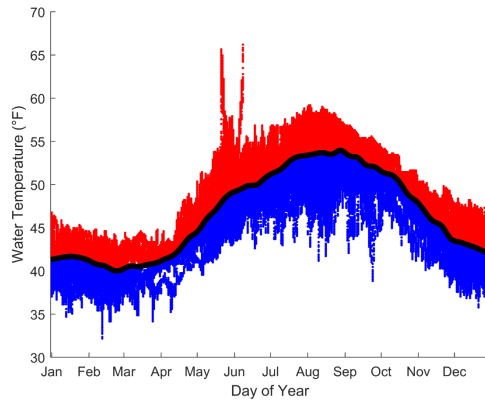


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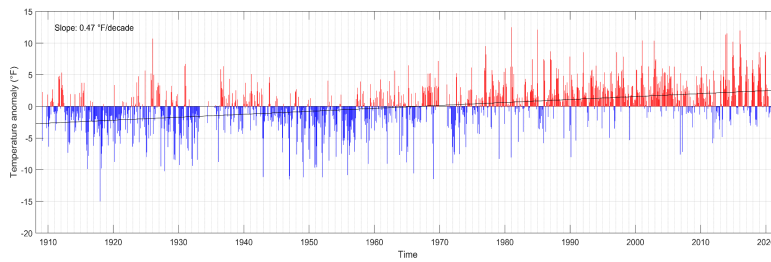
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Temperature Anomalies



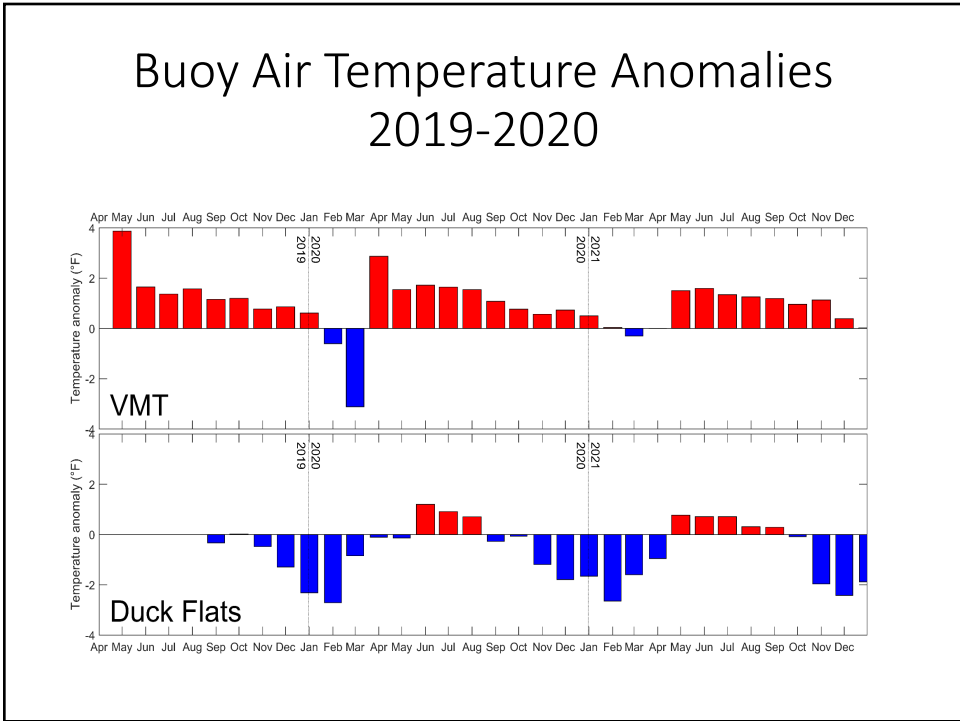
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Valdez Monthly Air Temperature Anomaly 1908-2022

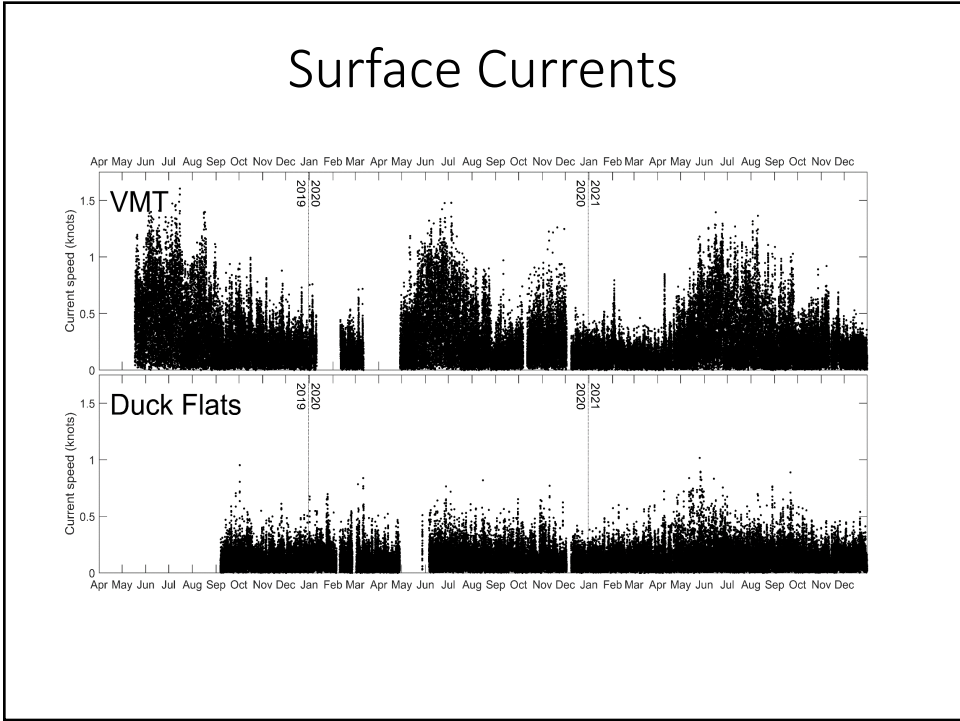


Source: Berkeley Earth database (www.berkeleyearth.org) 1908-2013
VDZA2 1996 - present

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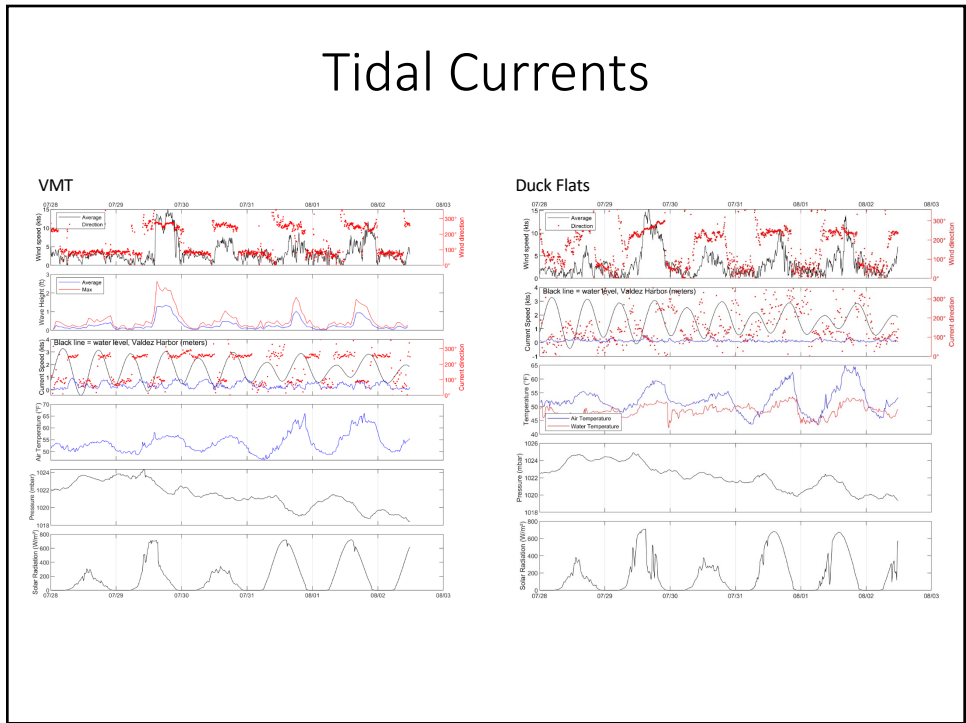


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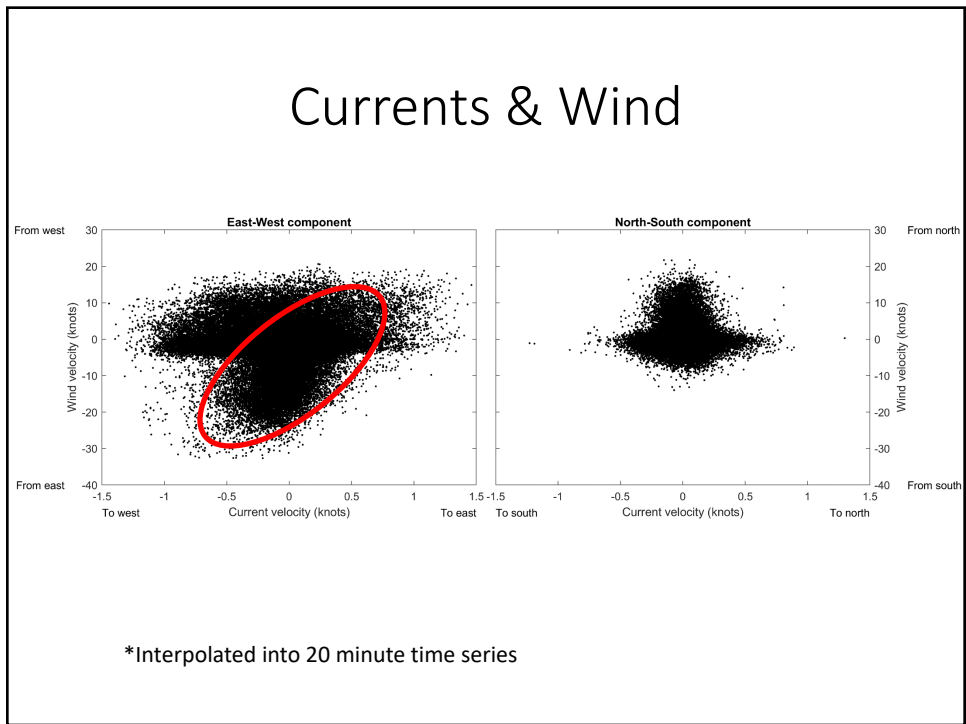
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Tidal Currents



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Currents & Wind

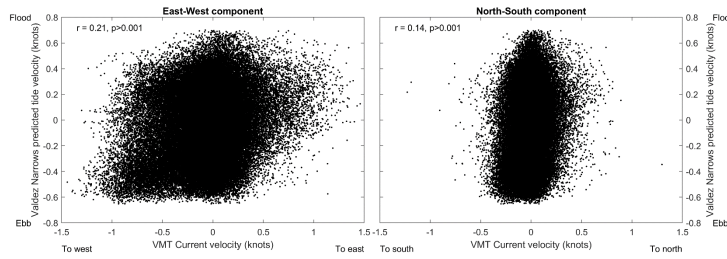


*Interpolated into 20 minute time series

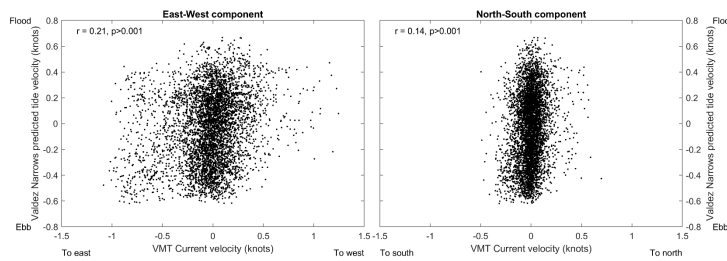
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Currents vs NOAA Tide Prediction

All data:

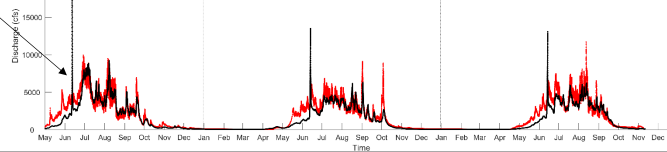


Only when calm (< 0.2 kts):



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Currents vs Lowe & Valdez G. Creek Discharge



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Thanks!

