VOS Data Processing and Quality control

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Data retrieval

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- Download data from internal PCMCIA cards:
    - via RS232 link with, e.g., PROCOMM.EXE
    - mount PCMCIA card as local disk (linux only)

Data processing

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    - byte swap and conversion routine, available at http://uop.whoi.edu

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- Combine individual sensor files into one time series (matlab routines)
  - eliminate outliers based on specified extrema
  - visually inspect time series for obvious problems
  - common time axis based on first start, last stop;

Data processing (cont.)

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•Email Lisa Lehmann, Glenn Pezzoli, and John Gilson at SIO

Problems: GPS

Rely on GPS positions to

- Locate the data

- Generate absolute wind
    - ship's heading (no wind compass)
    - subtract ship's velocity (similar to wind velocity)

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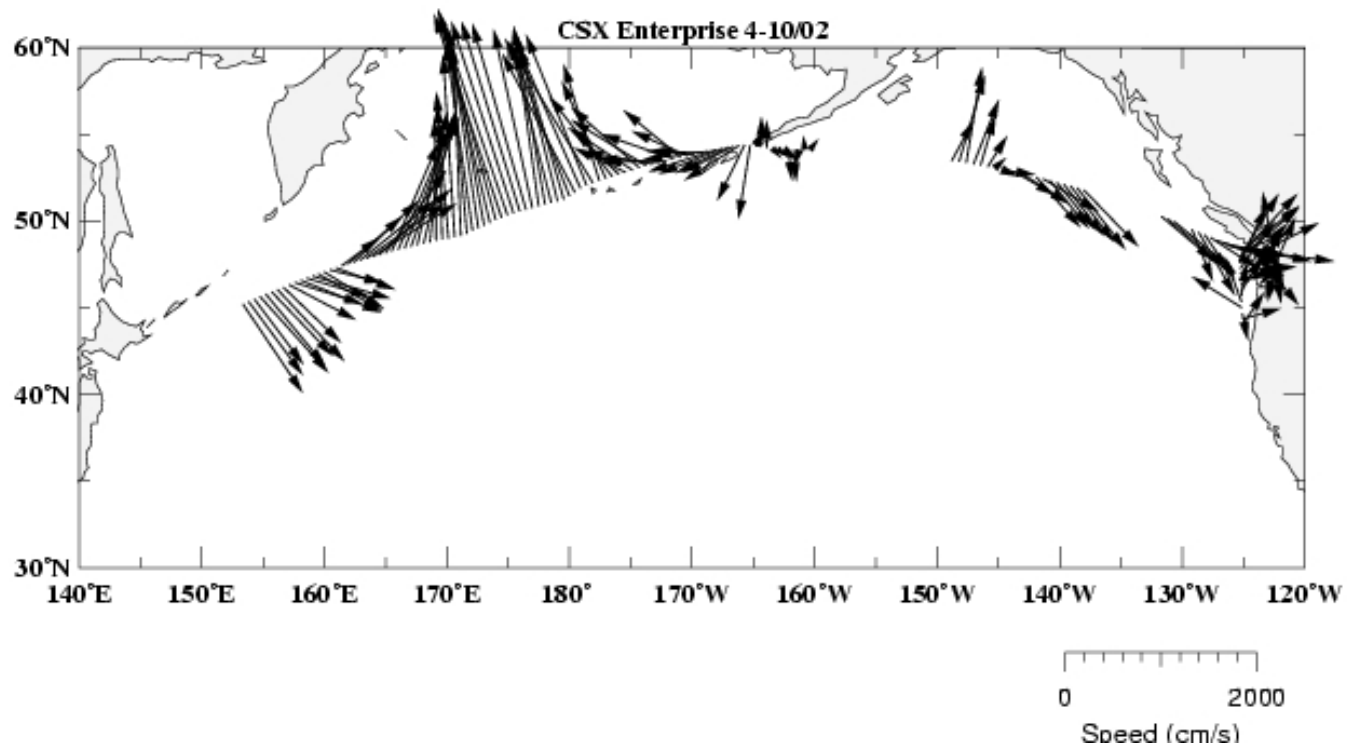
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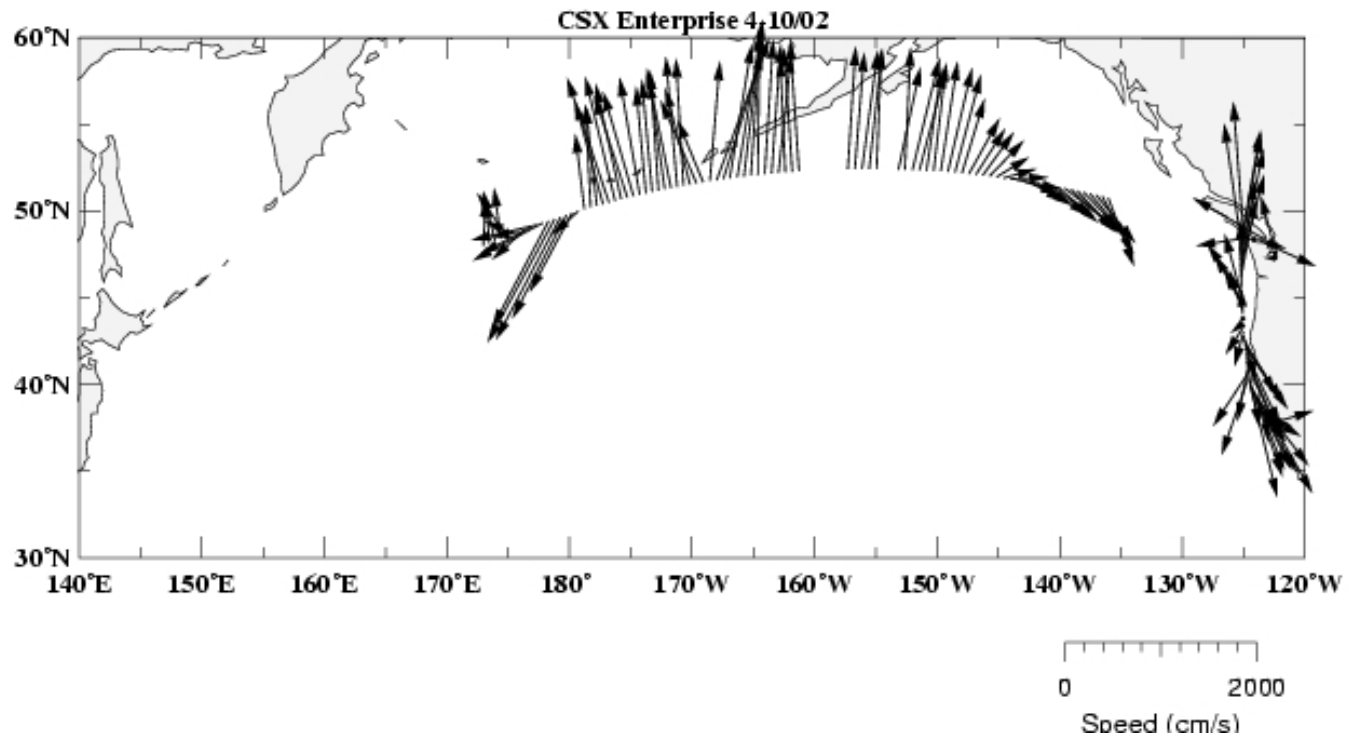- Continue to improve our GPS as backup

VOS Hourly Wind
07/27 10:30 to 08/05 13:30, 2002

CSX Enterprise 4-10/02

Speed (cm/s)

VOS Hourly Wind

09/02 02:30 to 09/11 12:30, 2002

CSX Enterprise 4/10/02

VOS Hourly Wind
10/07 00:30 to 10/10 18:30, 2002

CSX Enterprise 4-10/02