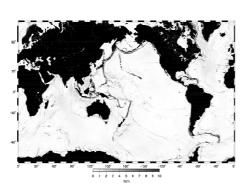


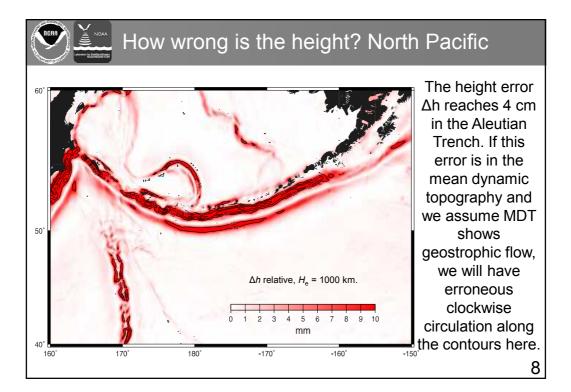
## Does it matter for physical oceanography?

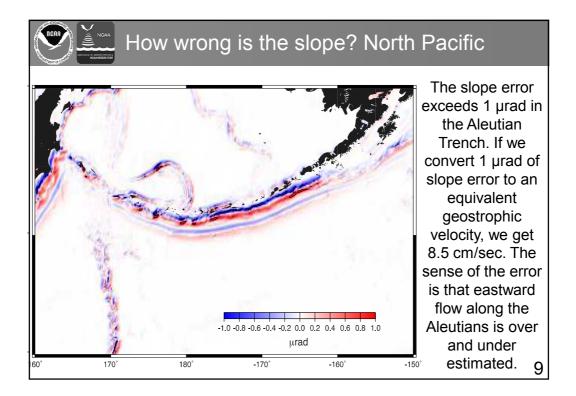


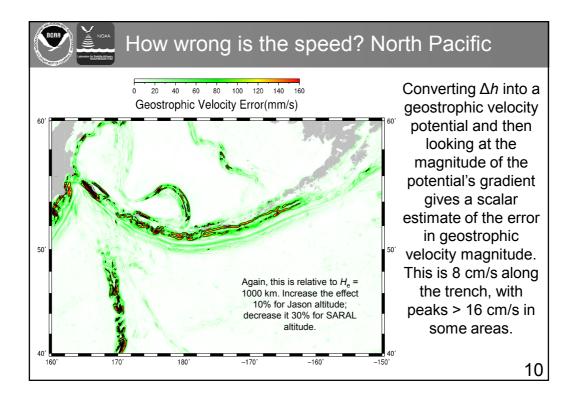
Since the error is geographically fixed, it should be the same on every cycle of an exact-repeat orbit. Errors then cancel in along-track height anomaly computed with respect to a time average of along-track height.

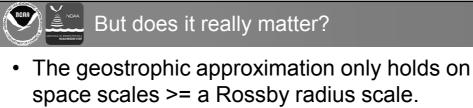
7

<u>**However,**</u> when combining profiles into a mean sea surface model, if the correction is not made then: (1) implied dynamic topography is wrong by a few cm; and (2) there will be problems combining data from satellites with different  $H_{\rm e}$ .









## Geoid slopes are largest over localized features, so Δh errors are also localized.

- We have illustrated ∆h as errors in currents, but we do not know whether the geostrophic approximation holds in our examples.
- It is clear that geodesy can no longer ignore  $\Delta h$ .
- We do not know if it matters to oceanographers.

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We thank Ole Andersen for presenting this paper in our absence. We regret that we could not join you at OSTST.	J Geod DOI 10.1007/s00190-014-0720-1 ORIGINAL ARTICLE	
Those who wish a fuller explanation are referred to the published paper in Journal of Geodesy.	Slope correction for ocean radar altimetr David T. Sandwell · Walter H. F. Smith	y
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