Satellite Altimetry - Database and Processing

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NTNU Trondheim, Tuesday June 22 2004
Problem

⇒ multiple agencies - multiple data formats

⇒ non-unified correction models

⇒ no standards in altimetry

⇒ International Altimeter Service @ IAG
Status

⇒ altimetry groups use their own software

⇒ comparisons between groups is difficult

⇒ different editing and processing

⇒ some groups developed altimetry processing packages

⇒ examples: stackfiles (CSR/OSU), RADS (Delft/NOAA), ADS Central (GFZ Potsdam)

⇒ Agencies: AVISO, PODAAC/JPL, Goddard/NASA
Altimetry Database and processing System

ADS SYSTEM ARCHITECTURE

RAW DATA → CDROM → MODELS

PRE-PROCESSING

TRACKFILE

HALF-REVOLUTION ALTIMETRY DATA

HALF-REVOLUTION MODEL DATA

UPGRADING
CORRECTION
FILTERING
MAPPING

ALTIMETRY DATA STRUCTURE

SPECIFIC SOFTWARE

DATABASE

PRODUCTS

PROCESSOR
ADS Central

⇒ Website: http://op.gfz-potsdam.de/ads

⇒ Register for free with fixed IP-address, email-address and name

⇒ Download data or create your own high-level products

⇒ see demonstration