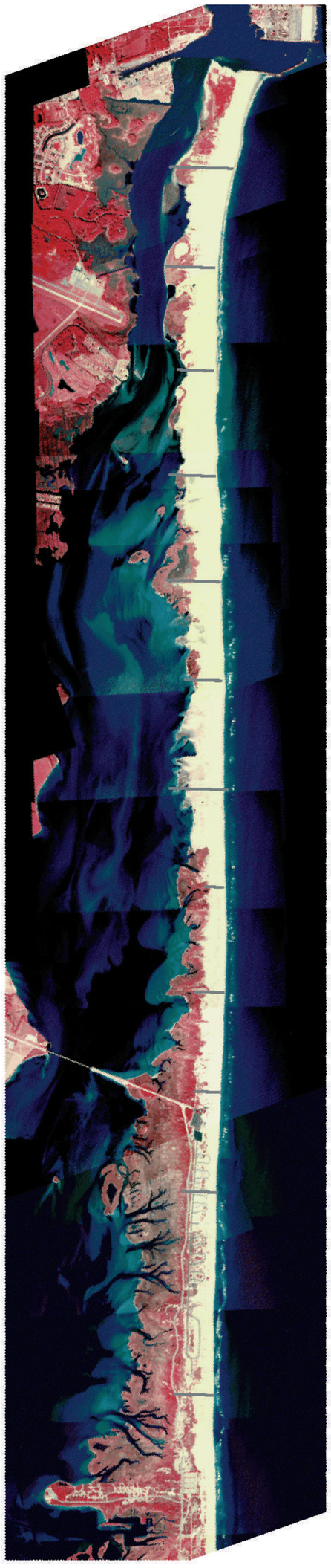
Airborne LIDAR Assessment of Coastal Erosion (ALACE) Project

NASA / GSFC Wallops Flight Facility, Laboratory for Hydrospheric Processes, Observational Science Branch, Airborne Topographic Mapper Project

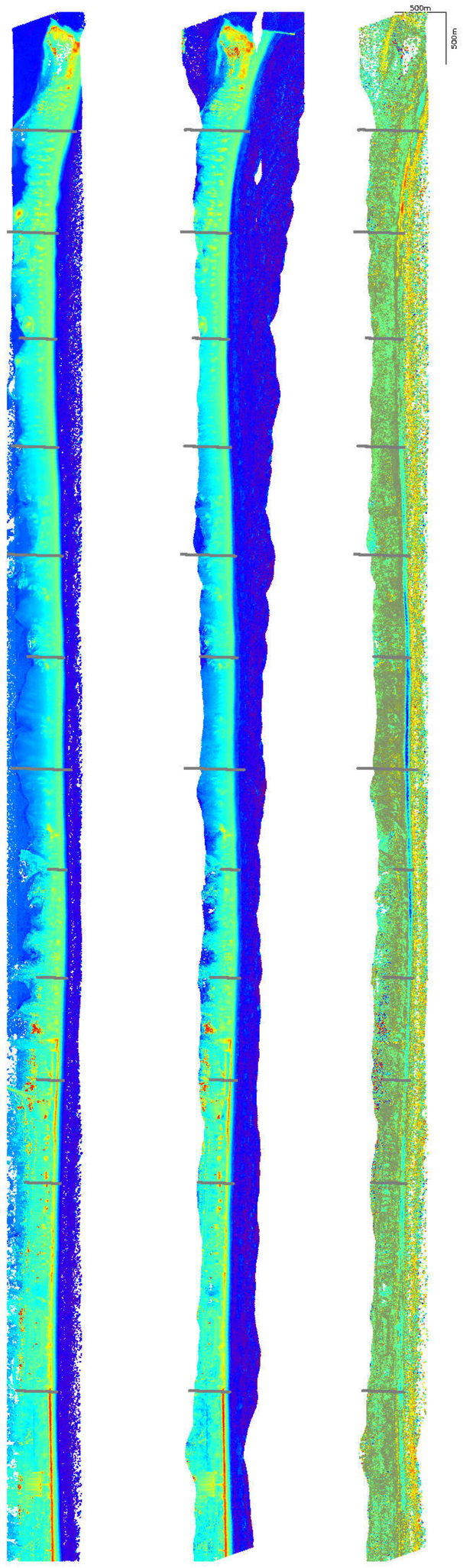
NOAA Coastal Services Center, Coastal Remote Sensing Program

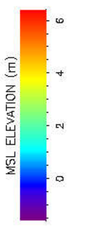
National Park Service, Assateague Island National Seashore



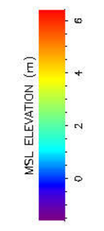
North

AIRBORNE PHOTOGRAPHIC SURVEY, 1993
panchromatic photomatic made for
National Park Service, Assateague Island
National Seashore, by Photo Sciences, Inc.

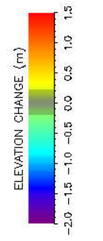




AIRBORNE LASER / GPS
ELEVATION SURVEY
November 27, 1995 data
measured by NASA Airborne
Topographic Mapper, Wallops
Flight aboard the Wallops
P3-B aircraft



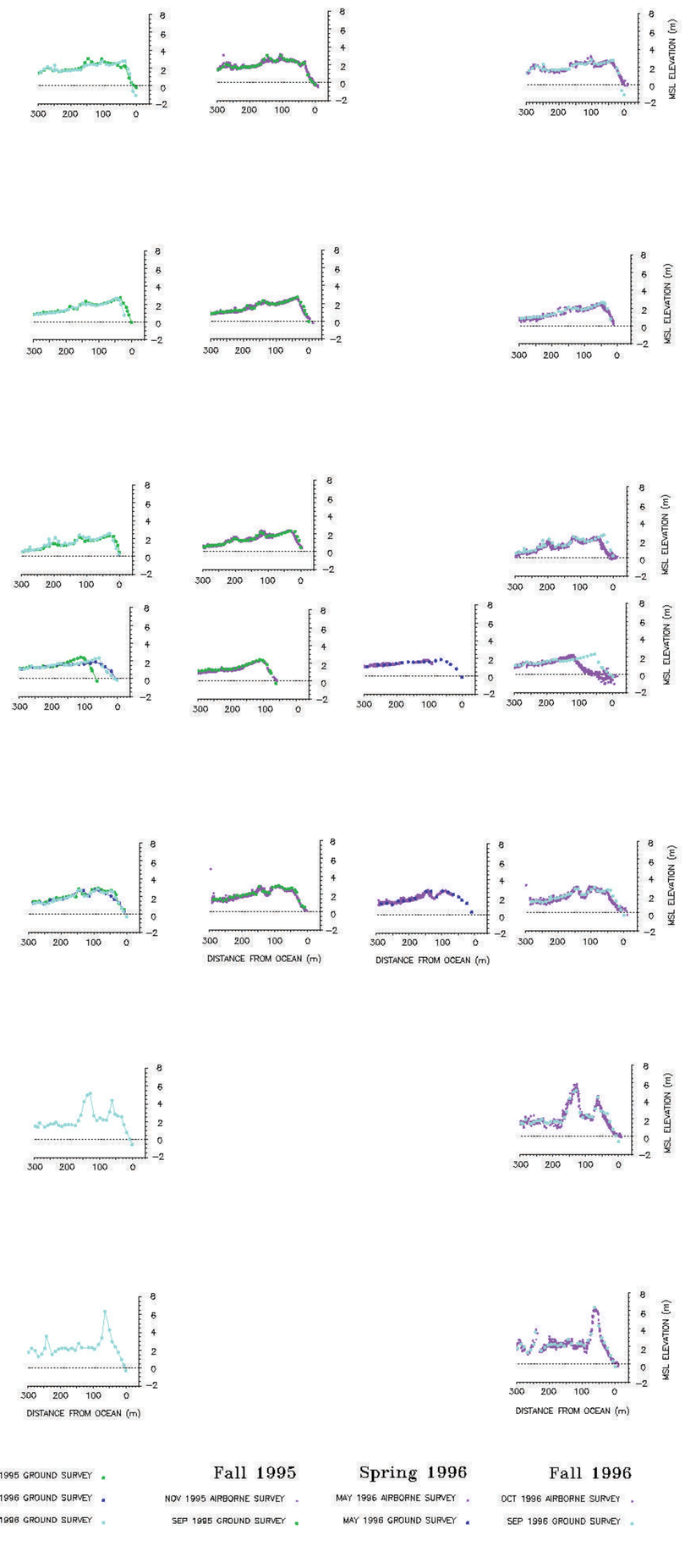
AIRBORNE LASER / GPS
ELEVATION SURVEY
October 9, 1996
data measured by NASA
Airborne Topographic Mapper
aboard the Twin-Otter aircraft



ELEVATION DIFFERENCE
BETWEEN AIRBORNE
LASER / GPS SURVEYS
of November 27, 1995
and October 9, 1996

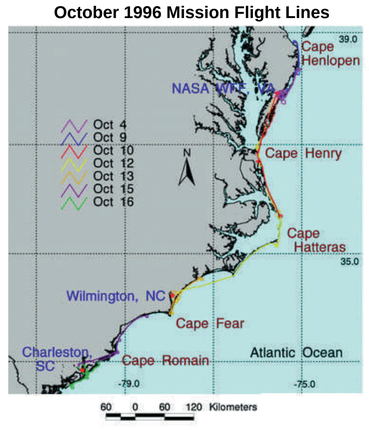
BEACH ELEVATION
CROSS-SECTIONS
FROM GROUND
SURVEYS ON THREE
DATES at locations
shown on maps to
the left

BEACH ELEVATION CROSS-SECTIONS EXTRACTED
FROM AIRBORNE SURVEY COMPARED WITH
MOST RECENT GROUND SURVEY
individual laser measurements are shown within
a 5m-wide section extracted at the ground
survey location



Airborne LIDAR Assessment of Coastal Erosion (ALACE)

October 1996 Mission Flight Lines



Mission Flight Lines
for October 1996
Mid-Atlantic Laser / GPS
Beach Surveys using
the Airborne Topographic
Mapper aboard the NOAA
Twin-Otter Aircraft