

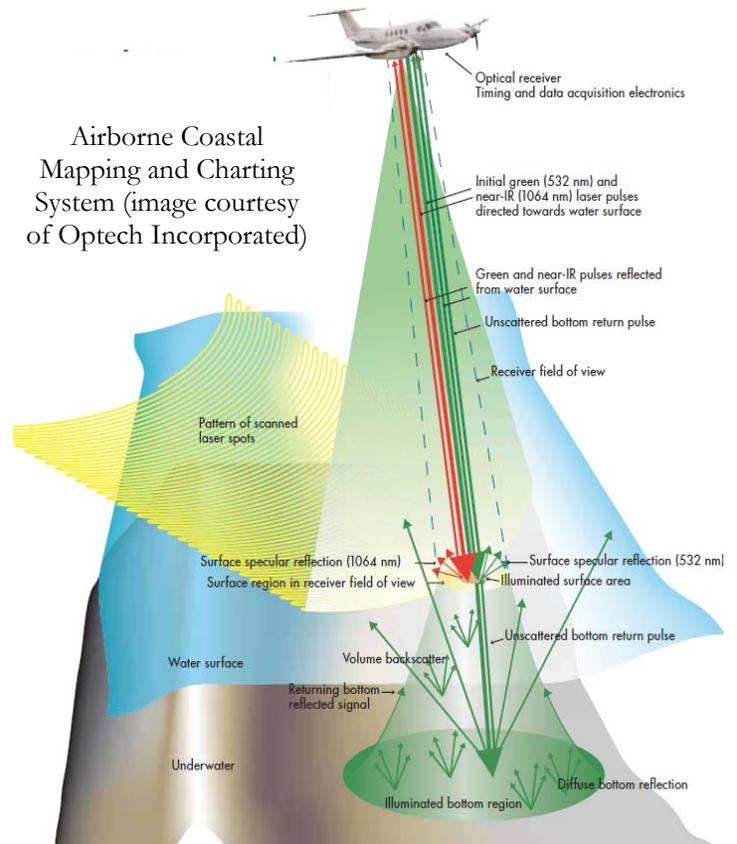
NOAA Nautical Charting Calendar

Laser Hydrography

Light Detection And Ranging (LIDAR) is a hydrographic surveying method used by NOAA's contractors to measure elevation or depth with pulses of laser light. These systems are aircraft-mounted and provide seamless coverage between land and sea. Bathymetric LIDAR refers to its use to determine water depth. It is used to survey in areas with complex and rugged shorelines where surface vessels cannot operate efficiently or safely

Bathymetric LIDAR systems use simultaneous laser pulses of two frequencies. A lower frequency infrared pulse is reflected off the sea surface while a higher frequency green laser pulse penetrates the water column and reflects off the sea floor. Water depths are calculated from the time difference between receipt of these two reflected pulses. Depending on water clarity, LIDAR can reach depths of 50 meters.

NOAA participates in the interagency Joint Airborne Lidar Bathymetry Technical Center of Expertise (JALBTCX) to perform operations, research, and development in airborne lidar bathymetry for mapping and charting. So far, NOAA has accepted 59 Lidar surveys and applied resulting data to its nautical charts.



SUNDAY		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
Prepared by the Office of Coast Survey, National Ocean Service, NOAA, www.NauticalCharts.NOAA.gov , 1-301-713-2770.						1	2	3	4				
Note: Add your information to the Calendar using Adobe Reader 7 or later. The tools are found at the Tools -> Commenting, and Tools -> Drawing Markup features of Adobe Reader.													
5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	