

The enclosed file contains aerial radiological data that was collected with a fixed-wing aircraft (C-12) off of the east coast of Japan on three separate flights dated April 5, 2011, April 18, 2011, and May 9, 2011.

Please note that the normal analysis of aerial radiological data assumes that the material is deposited on the ground and is not constantly moving. Therefore, this data set differs from previously posted aerial data in that the data must be viewed as three separate “snapshots” of the radiological signature from the ocean on these three dates, and NOT as one contiguous data set or flow pattern of the same deposition taken on different dates.

Further, the vertical profile of the material is more ambiguous for over-sea data than for terrestrial data. There are no supporting measurements to reveal how the radioactive material is distributed in the air column, on the surface of the water, or mixed throughout the water. For this reason, a ground-level exposure rate or activity concentration is not reported as part of this data set.

The data were collected with arrays of thallium activated sodium iodide (NaI(Tl)) crystals. The arrays were comprised of three or six crystals, where the volume of the crystals was 2 liters.

CSV Field	Field description
Time	GPS date and time of the measurement
Latitude	Location from the GPS receiver in decimal degrees
Longitude	Location from the GPS receiver in decimal degrees
ALT_HAE	Height above the ellipsoid from the GPS receiver in meters
AGL	Height above the ground/sea in meters
NumDet	Number of NaI(Tl) detectors in the array
LiveuSec	Collection live time in microseconds
GC	Gross counts in the detector array
GCNORM	Gross counts in the array, normalized by the live time

The KMZ file displays the data sets collected over the water. The data has been colored based on the livetime corrected count rate in the detector array (GCNORM). The ranges for the different colors are indicated below.

	Counts per second
	<2000
	2000-2250
	2250-2500
	2500-2750
	2750-3000
	3000-5000
	5000-10000
	10000-20000
	>20000