

Table 1. Radioactive isotopes measured in each of the kelp samples, corrected to time of collection during the first sampling period (February to March 2014). Some samples were taken beyond this period due to logistical issues. To date, 38 of the 44 sites originally identified have been sampled; 26 of those samples have been analyzed and are shown. The remaining samples will be added to this table as the data becomes available. All data are based on a single sample size (n=1) of 6.5 kg fresh weight of blade tissue. Several sample locations were in close proximity. Rows highlighted in yellow occur within NOAA's Monterey Bay National Marine Sanctuary.

Sample ID	Collection Date	Species	Location	Latitude	Longitude	K-40	Cs-134	Cs-137	U-238 series (early)	U-238 series (late)	Th-232 series (early)	Th-232 series (late)	Be-7
KSMSC-1	March 5, 2014	<i>Nereocystis</i>	Kodiak Island, AK	57.77	-152.398889	4512 ± 10	nondetect (< 0.05)	0.18 ± 0.04	56.0 ± 3.8	3.14 ± 0.07	1.35 ± 0.15	0.22 ± 0.03	2.68 ± 0.55
Sitka-1	March 2, 2014	<i>Macrocystis</i>	Sitka, AK	57.055	-135.368	3944 ± 7	nondetect (< 0.05)	0.19 ± 0.04	58.8 ± 2.0	2.30 ± 0.07	nondetect (< 0.17)	0.05 ± 0.01	nondetect (< 0.47)
RES-1	March 3, 2014	<i>Macrocystis</i>	Tofino, BC	49.14927	-125.97149	3099 ± 8	nondetect (< 0.04)	0.32 ± 0.04	59.2 ± 1.7	0.75 ± 0.05	0.84 ± 0.13	0.12 ± 0.02	7.25 ± 0.41
RRU-1	April 13, 2014	<i>Macrocystis</i>	Vancouver Island, BC	48.21802	-123.45366	3751 ± 6	nondetect (< 0.04)	0.14 ± 0.04	38.9 ± 1.6	1.45 ± 0.05	0.53 ± 0.17	0.22 ± 0.03	4.46 ± 0.42
OLYM-1	March 27, 2014	<i>Macrocystis</i>	Olympic National Park, WA	48.158571	-124.745069	3464 ± 6	nondetect (< 0.04)	0.18 ± 0.03	38.2 ± 2.6	2.80 ± 0.06	1.06 ± 0.12	0.19 ± 0.02	2.81 ± 0.43
HSU-1	February 28, 2014	<i>Nereocystis</i>	Humboldt County, CA	41.055719	-124.144775	3968 ± 9	nondetect (< 0.04)	0.23 ± 0.04	20.1 ± 3.5	2.15 ± 0.07	1.05 ± 0.18	0.18 ± 0.02	1.96 ± 0.79
BML-1	February 4, 2014	<i>Macrocystis</i>	Van Damme State Park, CA	39.273067	-123.79135	3649 ± 11	nondetect (< 0.04)	0.22 ± 0.03	93.1 ± 8.0	2.32 ± 0.05	1.07 ± 0.14	0.52 ± 0.04	4.19 ± 0.86
NPS-1	March 3, 2014	<i>Nereocystis</i>	Bodega Bay, Marin County, CA	38.271667	-123.001389	3959 ± 5	nondetect (< 0.05)	0.25 ± 0.05	21.2 ± 3.6	1.92 ± 0.06	1.17 ± 0.16	0.21 ± 0.03	2.06 ± 0.56
MLMLDAV-1	February 27, 2014	<i>Macrocystis</i>	Davenport Landing, Santa Cruz County, CA	37.020336	-122.214333	3640 ± 8	nondetect (< 0.05)	0.31 ± 0.05	50.8 ± 6.1	2.49 ± 0.08	1.20 ± 0.14	0.19 ± 0.03	2.59 ± 0.80
MLMLSWC-1	March 5, 2014	<i>Macrocystis</i>	Stillwater Cove, Carmel, CA	36.562979	-121.948185	3729 ± 5	nondetect (< 0.04)	0.29 ± 0.04	49.7 ± 4.1	2.18 ± 0.05	1.01 ± 0.16	0.23 ± 0.02	3.82 ± 0.87
BC-1	February 24, 2014	<i>Nereocystis</i>	Big Creek Cove, Monterey County, CA	36.068555	-121.600828	3138 ± 15	nondetect (< 0.05)	0.12 ± 0.04	141 ± 6	1.31 ± 0.06	0.57 ± 0.14	0.26 ± 0.04	nondetect (< 0.88)
BC-2	February 27, 2014	<i>Macrocystis</i>	Big Creek Cove, Monterey County, CA	36.068555	-121.600828	3374 ± 5	nondetect (< 0.04)	0.21 ± 0.04	78.5 ± 4.9	1.71 ± 0.05	1.26 ± 0.13	0.27 ± 0.03	nondetect (< 0.71)
CAM-1	February 24, 2014	<i>Macrocystis</i>	Cambria, San Luis Obispo County, CA	35.570758	-121.121428	3354 ± 6	nondetect (< 0.04)	0.14 ± 0.04	158 ± 6	1.90 ± 0.06	0.69 ± 0.14	0.21 ± 0.03	1.38 ± 0.54
SBCK-1	March 3, 2014	<i>Macrocystis</i>	Santa Barbara, CA	34.344983	-119.4329	3856 ± 8	nondetect (< 0.04)	0.16 ± 0.03	70.3 ± 1.7	2.16 ± 0.04	2.02 ± 0.12	0.43 ± 0.03	4.02 ± 0.39
Oxy-1	February 26, 2014	<i>Macrocystis</i>	Rancho Palos Verdes, Los Angeles County, CA	33.780831	-118.427939	3267 ± 6	nondetect (< 0.04)	0.29 ± 0.03	153 ± 2	1.54 ± 0.05	0.69 ± 0.14	0.15 ± 0.02	nondetect (< 0.41)
LB-1	March 6, 2014	<i>Macrocystis</i>	Long Beach, Los Angeles County, CA	33.722786	-118.140064	3903 ± 11	nondetect (< 0.04)	0.30 ± 0.03	47.0 ± 1.9	1.61 ± 0.05	1.18 ± 0.11	0.22 ± 0.02	nondetect (< 0.44)
CSC-1	February 26, 2014	<i>Macrocystis</i>	San Pedro, Los Angeles County, CA	33.706133	-118.299017	3303 ± 9	nondetect (< 0.04)	0.23 ± 0.03	79.9 ± 1.9	1.46 ± 0.05	0.64 ± 0.22	0.14 ± 0.02	1.40 ± 0.38
KML-1	March 14, 2014	<i>Macrocystis</i>	Orange County, CA	33.588147	-117.869406	3011 ± 12	nondetect (< 0.03)	0.23 ± 0.06	47.0 ± 2.6	1.90 ± 0.05	1.36 ± 0.15	0.20 ± 0.02	2.39 ± 0.44
CCA-1	March 4, 2014	<i>Macrocystis</i>	Orange County, CA	33.574567	-117.847433	2938 ± 9	nondetect (< 0.03)	0.36 ± 0.03	306 ± 3	1.48 ± 0.04	0.81 ± 0.15	0.23 ± 0.00	2.50 ± 0.44
GI-1a	February 26, 2014	<i>Macrocystis</i>	Orange County, CA	33.568683	-117.83855	2747 ± 6	nondetect (< 0.03)	0.42 ± 0.04	109 ± 2	1.66 ± 0.04	0.49 ± 0.10	0.23 ± 0.02	1.75 ± 0.73
USC-1	March 5, 2014	<i>Macrocystis</i>	Catalina Island, CA	33.448163	-118.491865	3776 ± 10	nondetect (< 0.04)	0.32 ± 0.04	718 ± 3	1.41 ± 0.04	0.19 ± 0.11	0.41 ± 0.03	2.61 ± 0.43
OI-1	March 6, 2014	<i>Macrocystis</i>	San Clemente, Orange County, CA	33.384083	-117.608533	3039 ± 5	nondetect (< 0.03)	0.44 ± 0.04	161 ± 2	1.26 ± 0.04	1.19 ± 0.13	0.31 ± 0.03	1.38 ± 0.34
UABC-1	March 12, 2014	<i>Macrocystis</i>	Baja California, Mexico	31.701667	-116.684861	3113 ± 15	nondetect (< 0.06)	0.20 ± 0.06	98.6 ± 2.6	0.78 ± 0.06	0.47 ± 0.19	0.24 ± 0.05	nondetect (< 0.54)
UH-1	March 6, 2014	<i>Sargassum</i>	Hawaii	21.255392	-157.80691	2656 ± 7	nondetect (< 0.04)	0.20 ± 0.04	30.6 ± 2.9	2.22 ± 0.06	nondetect (< 0.13)	0.16 ± 0.02	8.43 ± 0.65
UOGLM-1	February 2, 2014	<i>Sargassum</i>	Guam	13.427237	144.798843	3418 ± 6	nondetect (< 0.03)	0.08 ± 0.03	153 ± 4	2.14 ± 0.04	0.39 ± 0.11	0.15 ± 0.02	4.19 ± 0.61
UCN-1	March 31, 2014	<i>Macrocystis</i>	Chile	-30.88095	-71.686917	3533 ± 7	nondetect (< 0.04)	nondetect (< 0.03)	55.5 ± 2.0	2.78 ± 0.05	0.88 ± 0.12	0.16 ± 0.02	nondetect (< 0.41)

Table Notes:

All uncertainties quoted are "one-sigma," meaning that they represent a 68% confidence range for the quantity measured. Detection limits are also "one-sigma" in that they give the 68% confidence upper limit. Radioactive isotopes are measured in units of Becquerels per kilogram dry weight (Bq/kg dwt). One Becquerel is one nuclear decay per second. Data are decay-corrected to the date the sample was collected.

Source: <http://kelpwatch.berkeley.edu/results>