



**Statistics of Manta Ray Sightings on the Kona Coast, Hawaii, USA
during the Night Dive and Snorkel Activity at
"Manta Heaven" and "Manta Village" in
2013**

Source:

- The information of this report were gathered by Professional Divers, Underwater Explorers and Cameramen, Martina Wing, James Wing and Ryan Leinbach of Ocean Wings Hawaii, Inc, widely accepted Manta Ray Advocates in Kona, Hawaii
- You can find the source material on their website: <http://www.mantarayshawaii.com/statistics.html>
- All statistics are based on personal observations and review of video footage of each specific night dive.
- We would like to thank all contributors who make these statistics as complete and accurate as possible. A Special Mahalo to Luke, David, Jordan and Katie from Kona Diving Company as well as Jonathan from Big Island Divers.

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"TOP 20" Manta Ray at "Manta Heaven" and "Manta Village" in 2013 (condensed)

Kona Coast, Big Island of Hawaii, USA

- order by appearance -

Legend: **"TOP 3" Manta Rays 2013**
"TOP 3" Manta Ray of the month

2013		January	February	March	April	May	June	July	August	September	October	November	December	Σ
1	Jana Ray	9	17	12	18	16	24	29	21	25	26	17	6	220
2	Koie	13	13	23	13	27	19	25	17	15	23	27	3	218
3	Grayer	8	9	10	15	17	7	19	26	17	26	22	11	187
4	Vallaray	5	7	17	20	20	18	21	12	18	19	19	9	185
5	Shirley	17	5	18	17	17	8	22	23	4	22	20	7	180
6	Eli Ray	6	8	15	15	14	7	23	27	6	23	22	13	179
7	Mango	10	9	26	10	10	10	18	21	11	13	23	6	167
8	Vicky	12	13	18	14	11	10	19	21	8	16	19	5	166
9	Sugar Ray	4	8	19	18	18	9	20	18	6	15	18	1	154
10	Melainah	6	14	17	12	11	5	19	12	13	19	18	7	153
11	Lefty	11	7	18	5	13	4	18	20	10	21	19	2	148
12	Amanda Ray	4	0	0	2	0	3	13	22	23	27	23	22	139
13	Blain Ray	12	10	19	14	9	3	13	17	1	18	19	4	139
14	Kailey	6	13	21	12	12	15	16	12	5	0	10	6	128
15	Linda	5	5	13	9	7	8	20	12	13	12	16	5	125
16	Vinny Ray	10	7	19	16	10	7	13	16	0	13	12	1	124
17	Ralph's Ray	10	3	8	4	9	6	9	9	13	20	23	5	119
18	Margo	9	10	10	13	12	8	11	0	0	17	18	6	114
19	Cara Ray	10	4	15	10	8	5	7	15	0	18	16	3	111
20	Re-Nata	12	8	20	15	3	1	4	3	0	14	23	1	104



For complete list in order by appearance, see Page 3



For complete list in alphabetical order, see Page 4



"TOP 20" Manta Ray at "Manta Heaven" and "Manta Village" in 2013

Kona Coast, Big Island of Hawaii, USA

- order by appearance -

Legend: Female Manta Ray
Male Manta Ray

"TOP 3" Manta Rays 2013
"TOP 3" Manta Ray of the month

New ID's in 2013

2013	January	February	March	April	May	June	July	August	September	October	November	December	Σ	
1	Jana Ray	9	17	12	18	16	24	29	21	25	26	17	6	220
2	Koie	13	13	23	13	27	19	25	17	15	23	27	3	218
3	Grayer	8	9	10	15	17	7	19	26	17	26	22	11	187
4	Vallaray	5	7	17	20	20	18	21	12	18	19	19	9	185
6	Shirley	17	5	18	17	17	8	22	23	4	22	20	7	180
5	Eli Ray	6	8	15	15	14	7	23	27	6	23	22	13	179
7	Mango	10	9	26	10	10	10	18	21	11	13	23	6	167
8	Vicky	12	13	18	14	11	10	19	21	8	16	19	5	166
9	Sugar Ray	4	8	19	18	18	9	20	18	6	15	18	1	154
10	Melainah	6	14	17	12	11	5	19	12	13	19	18	7	153
11	Lefty	11	7	18	5	13	4	18	20	10	21	19	2	148
12	Amanda Ray	4	0	0	2	0	3	13	22	23	27	23	22	139
13	Blain Ray	12	10	19	14	9	3	13	17	1	18	19	4	139
14	Kailey	6	13	21	12	12	15	16	12	5	0	10	6	128
15	Linda	5	5	13	9	7	8	20	12	13	12	16	5	125
16	Vinny Ray	10	7	19	16	10	7	13	16	0	13	12	1	124
17	Ralph's Ray	10	3	8	4	9	6	9	9	13	20	23	5	119
18	Margo	9	10	10	13	12	8	11	0	0	17	18	6	114
19	Cara Ray	10	4	15	10	8	5	7	15	0	18	16	3	111
20	Re-Nata	12	8	20	15	3	1	4	3	0	14	23	1	104
21	Delaney	5	12	22	14	8	1	3	0	0	14	16	2	97
22	Timbuktu	5	5	14	7	7	1	6	14	3	15	14	2	93
23	Tim	3	2	3	21	27	9	2	0	12	0	0	10	89
24	Big Bertha	7	4	7	9	6	5	12	8	5	12	9	3	87
25	Capt. Mike	5	6	9	11	14	7	6	16	0	0	1	4	79
26	Bob'n'Ray	2	1	3	2	3	3	16	18	1	14	12	2	77
27	Ho Ray	7	1	7	5	7	2	0	3	2	8	21	12	75
28	Peg = NEW	0	0	0	0	0	1	0	13	10	16	24	11	75
29	Nick	1	0	1	0	0	6	12	9	15	15	7	8	74
30	Jordan	2	0	0	1	6	12	13	10	1	10	8	2	65
31	Kai-Zed	0	0	0	0	0	1	0	14	8	17	15	5	60
32	Curly Ray	1	2	10	4	4	2	7	6	0	12	9	2	59
33	Emma	5	3	5	4	4	1	1	1	3	12	9	2	50
34	Cousteau	0	0	10	9	4	0	5	8	2	5	4	1	48
35	Rusty	0	0	0	0	0	3	2	12	2	9	12	3	43
36	Lee = NEW	0	0	0	0	0	0	0	3	3	8	13	15	42
37	Hayden Ray	2	0	1	1	4	2	2	1	0	14	13	1	41
38	Otis	6	2	4	1	3	1	1	2	0	5	12	4	41
39	Hans Ray	1	2	0	8	0	2	0	0	0	14	11	2	40
40	Lisa Rae	5	0	2	3	4	3	0	4	0	8	10	1	40
41	Uhane Nui	3	2	5	5	5	0	8	11	0	0	0	0	39
42	Orion Ray	0	0	1	2	1	3	1	7	7	7	1	7	37
43	Alexander	3	1	1	0	2	1	4	4	0	13	7	0	36
44	BooBoo	2	6	2	1	2	2	6	6	0	1	7	0	35
45	Hook	0	0	6	4	1	0	4	4	0	10	3	0	32
46	Doug Ray	1	2	0	2	1	0	1	2	1	11	8	1	30
47	Csilla = NEW	0	0	0	0	0	0	0	11	2	8	8	0	29
48	Keniki	3	2	4	4	1	2	5	5	0	2	0	0	28
49	Independence Ray	0	0	0	0	0	0	3	9	2	8	3	1	26
50	Lobes = NEW	0	0	0	0	0	0	0	6	0	14	6	0	26
51	Miki	2	1	3	3	6	1	0	0	0	7	3	0	26
52	Scar	3	0	5	3	3	1	7	1	1	0	0	2	26
53	Rebekah	0	1	1	1	3	0	5	4	0	6	3	0	24
54	Lightning	0	3	4	0	4	0	1	2	0	1	6	2	23
55	Jay Ray	1	0	3	1	1	1	2	2	0	4	3	3	21
56	Andrea Ray	0	0	2	6	0	3	4	2	0	2	1	0	20
57	Teresa	2	1	9	6	2	0	0	0	0	0	0	0	20
58	Takahashi Ray	0	1	5	10	3	0	0	0	0	0	0	0	19
59	Who Ray	0	2	1	4	3	2	1	1	0	2	1	0	17
60	Johnny Ray	1	1	4	4	1	0	1	0	0	0	4	0	16
61	Kapono	0	1	6	4	3	0	0	0	0	0	0	1	15
62	Tanque-Ray	0	0	0	0	0	0	0	1	1	4	5	4	15
63	Reece	0	2	2	1	1	0	0	0	0	0	6	1	13
64	Kawika	0	0	0	0	0	1	2	8	0	0	1	0	12
65	Miles	0	2	3	1	0	0	2	2	0	0	0	0	10
66	Stevie	0	0	0	0	0	0	1	0	0	4	2	1	8
67	Hip Hip HooRay = NEW	1	0	2	4	0	0	0	0	0	0	0	0	7
68	"W"	0	0	0	7	0	0	0	0	0	0	0	0	7
69	Jeffrey Ray	0	0	0	0	0	0	0	4	0	2	0	0	6
70	Tessa	0	0	1	0	0	2	2	0	0	0	0	0	5
71	Jihane	0	0	0	0	1	0	2	1	0	0	0	0	4
72	Maluhia	0	0	0	0	2	0	0	0	0	1	0	0	3
73	Sparrow	0	0	0	0	0	0	0	0	0	1	1	1	3
74	Coral	0	0	0	0	0	0	0	0	0	1	0	1	2
75	Isabel	0	0	0	0	2	0	0	0	0	0	0	0	2
76	Mac Ray	1	1	0	0	0	0	0	0	0	0	0	0	2
77	X-Ray	0	0	0	1	1	0	0	0	0	0	0	0	2
78	Dionne	0	0	0	0	0	0	0	0	0	0	1	0	1
79	Ola'i	0	0	0	0	0	0	1	0	0	0	0	0	1
80	Ryan	0	0	0	0	0	0	0	0	0	0	1	0	1
81	Shelly Ray	0	0	0	0	0	0	0	0	1	0	0	0	1
82	Winona	0	0	0	0	0	0	0	0	0	0	1	0	1
83	Abigail	0	0	0	0	0	0	0	0	0	0	0	0	0
84	Capt. Kirk	0	0	0	0	0	0	0	0	0	0	0	0	0
85	Daniel	0	0	0	0	0	0	0	0	0	0	0	0	0
86	Guillermo	0	0	0	0	0	0	0	0	0	0	0	0	0
87	J9	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Kegan	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Ke'kai'malu	0	0	0	0	0	0	0	0	0	0	0	0	0
90	Knight	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Ripple	0	0	0	0	0	0	0	0	0	0	0	0	0
92	Salem	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Spatter	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Walsh Ray	0	0	0	0	0	0	0	0	0	0	0	0	0
95	Weniki	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Zach-a-Ray	0	0	0	0	0	0	0	0	0	0	0	0	0



Manta Ray Sightings by Individual at "Manta Heaven" and "Manta Village" in 2013

Kona Coast, Big Island of Hawaii, USA

- alphabetical order -

Legend: Female Manta Ray
Male Manta Ray

"TOP 3" Manta Rays 2013
"TOP 3" Manta Ray of the month

New ID's in 2013

2013	January	February	March	April	May	June	July	August	September	October	November	December	Σ
1 Abigail	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Alexander	3	1	1	0	2	1	4	4	0	13	7	0	36
3 Amanda Ray	4	0	0	2	0	3	13	22	23	27	23	22	139
4 Andrea Ray	0	0	2	6	0	3	4	2	0	2	1	0	20
5 Big Bertha	7	4	7	9	6	5	12	8	5	12	9	3	87
6 Blain Ray	12	10	19	14	9	3	13	17	1	18	19	4	139
7 Bob'n'Ray	2	1	3	2	3	3	16	18	1	14	12	2	77
8 BooBoo	2	6	2	1	2	2	6	6	0	1	7	0	35
9 Capt. Kirk	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Capt. Mike	5	6	9	11	14	7	6	16	0	0	1	4	79
11 Cara Ray	10	4	15	10	8	5	7	15	0	18	16	3	111
12 Coral	0	0	0	0	0	0	0	0	0	1	0	1	2
13 Cousteau	0	0	10	9	4	0	5	8	2	5	4	1	48
14 Csilla = NEW	0	0	0	0	0	0	0	11	2	8	8	0	29
15 Curly Ray	1	2	10	4	4	2	7	6	0	12	9	2	59
16 Daniel	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Delaney	5	12	22	14	8	1	3	0	0	14	16	2	97
18 Dionne	0	0	0	0	0	0	0	0	0	0	1	0	1
19 Doug Ray	1	2	0	2	1	0	1	2	1	11	8	1	30
20 Eli Ray	6	8	15	15	14	7	23	27	6	23	22	13	179
21 Emma	5	3	5	4	4	1	1	1	3	12	9	2	50
22 Grayer	8	9	10	15	17	7	19	26	17	26	22	11	187
23 Guillermo	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Hans Ray	1	2	0	8	0	2	0	0	0	14	11	2	40
25 Hayden Ray	2	0	1	1	4	2	2	1	0	14	13	1	41
26 Hip Hip HooRay = NEW	1	0	2	4	0	0	0	0	0	0	0	0	7
27 Ho Ray	7	1	7	5	7	2	0	3	2	8	21	12	75
28 Hook	0	0	6	4	1	0	4	4	0	10	3	0	32
29 Independence Ray	0	0	0	0	0	0	3	9	2	8	3	1	26
30 Isabel	0	0	0	0	2	0	0	0	0	0	0	0	2
31 Jana Ray	9	17	12	18	16	24	29	21	25	26	17	6	220
32 Jay Ray	1	0	3	1	1	1	2	2	0	4	3	3	21
33 Jeffrey Ray	0	0	0	0	0	0	0	4	0	2	0	0	6
34 Jihane	0	0	0	0	1	0	2	1	0	0	0	0	4
35 Johnny Ray	1	1	4	4	1	0	1	0	0	0	4	0	16
36 Jordan	2	0	0	1	6	12	13	10	1	10	8	2	65
37 J9	0	0	0	0	0	0	0	0	0	0	0	0	0
38 Kailey	6	13	21	12	12	15	16	12	5	0	10	6	128
39 Kai-Zed	0	0	0	0	0	1	0	14	8	17	15	5	60
40 Kapono	0	1	6	4	3	0	0	0	0	0	0	1	15
41 Kawika	0	0	0	0	0	1	2	8	0	0	1	0	12
42 Kegan	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Ke'kai'malu	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Keniki	3	2	4	4	1	2	5	5	0	2	0	0	28
45 Knight	0	0	0	0	0	0	0	0	0	0	0	0	0
46 Koie	13	13	23	13	27	19	25	17	15	23	27	3	218
47 Lee = NEW	0	0	0	0	0	0	0	3	3	8	13	15	42
48 Lefty	11	7	18	5	13	4	18	20	10	21	19	2	148
49 Lightning	0	3	4	0	4	0	1	2	0	1	6	2	23
50 Linda	5	5	13	9	7	8	20	12	13	12	16	5	125
51 Lisa Rae	5	0	2	3	4	3	0	4	0	8	10	1	40
52 Lobes = NEW	0	0	0	0	0	0	0	6	0	14	6	0	26
53 Mac Ray	1	1	0	0	0	0	0	0	0	0	0	0	2
54 Maluhia	0	0	0	0	2	0	0	0	0	1	0	0	3
55 Mango	10	9	26	10	10	10	18	21	11	13	23	6	167
56 Margo	9	10	10	13	12	8	11	0	0	17	18	6	114
57 Melainah	6	14	17	12	11	5	19	12	13	19	18	7	153
58 Miki	2	1	3	3	6	1	0	0	0	7	3	0	26
59 Miles	0	2	3	1	0	0	2	2	0	0	0	0	10
60 Nick	1	0	1	0	0	6	12	9	15	15	7	8	74
61 Ola'i	0	0	0	0	0	0	1	0	0	0	0	0	1
62 Orion Ray	0	0	1	2	1	3	1	7	7	7	1	7	37
63 Otis	6	2	4	1	3	1	1	2	0	5	12	4	41
64 Peg = NEW	0	0	0	0	0	1	0	13	10	16	24	11	75
65 Ralph's Ray	10	3	8	4	9	6	9	9	13	20	23	5	119
66 Rebekah	0	1	1	1	3	0	5	4	0	6	3	0	24
67 Reece	0	2	2	1	1	0	0	0	0	0	6	1	13
68 Re-Nata	12	8	20	15	3	1	4	3	0	14	23	1	104
69 Ripple	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Rusty	0	0	0	0	0	3	2	12	2	9	12	3	43
71 Ryan	0	0	0	0	0	0	0	0	0	0	1	0	1
72 Salem	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Scar	3	0	5	3	3	1	7	1	1	0	0	2	26
74 Shelly Ray	0	0	0	0	0	0	0	0	0	1	0	0	1
75 Shirley	17	5	18	17	17	8	22	23	4	22	20	7	180
76 Sparrow	0	0	0	0	0	0	0	0	0	1	1	1	3
77 Spatter	0	0	0	0	0	0	0	0	0	0	0	0	0
78 Stevie	0	0	0	0	0	0	1	0	0	4	2	1	8
79 Sugar Ray	4	8	19	18	18	9	20	18	6	15	18	1	154
80 Takahashi Ray	0	1	5	10	3	0	0	0	0	0	0	0	19
81 Tanque-Ray	0	0	0	0	0	0	0	1	1	4	5	4	15
82 Teresa	2	1	9	6	2	0	0	0	0	0	0	0	20
83 Tessa	0	0	1	0	0	2	2	0	0	0	0	0	5
84 Tim	3	2	3	21	27	9	2	0	12	0	0	10	89
85 Timbuktu	5	5	14	7	7	1	6	14	3	15	14	2	93
86 Uhane Nui	3	2	5	5	5	0	8	11	0	0	0	0	39
87 Vallaray	5	7	17	20	20	18	21	12	16	19	19	9	185
88 Vicky	12	13	18	14	11	10	19	21	8	16	19	5	166
89 Vinny Ray	10	7	19	16	10	7	13	16	0	13	12	1	124
90 Walsh Ray	0	0	0	0	0	0	0	0	0	0	0	0	0
91 "W"	0	0	0	7	0	0	0	0	0	0	0	0	7
92 Weniki	0	0	0	0	0	0	0	0	0	0	0	0	0
93 Winona	0	0	0	0	0	0	0	0	0	0	1	0	1
94 Who Ray	0	2	1	4	3	2	1	1	0	2	1	0	17
95 X-Ray	0	0	0	1	1	0	0	0	0	0	0	0	2
96 Zach-a-Ray	0	0	0	0	0	0	0	0	0	0	0	0	0



Number of Manta Ray Sightings by Day and Month at "Manta Heaven" and "Manta Village" in 2013

Kona Coast, Big Island of Hawaii, USA

Legend: Highest Number of Sightings during the month
Highest Number of Sightings in 2013

January 2013		Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur
		1	2	3	4	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
Lunar Phase																	☾															
North		-	-	11	6	4	2	8	20	5	-	12	13	20	30	11	14	15	3	-	-	-	4	8	12	9	4	4	0	2	3	4
South		-	-	-	2	1	-	-	1	1	3	1	5	-	3	-	-	6	-	-	-	-	1	1	3	2	2	-	0	0	1	2
SUMMARY		-	-	11	8	5	2	8	21	6	3	13	18	20	33	11	14	21	3	-	-	-	5	9	15	11	6	4	0	2	4	6
February 2013		Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur			
Lunar Phase																	☾															
North		2	4	3	0	0	0	-	1	8	11	6	4	3	4	1	2	6	9	15	4	3	8	8	13	18	14	19	19			
South		-	1	-	1	3	4	4	4	3	-	5	3	1	5	4	1	1	2	-	1	1	1	1	-	0	0	2	6			
SUMMARY		2	5	3	1	3	4	4	5	11	11	11	7	4	9	5	3	7	11	15	5	4	9	9	13	18	14	21	25			
March 2013		Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun
Lunar Phase																	☾															
North		9	1	2	8	14	17	21	35	-	-	-	15	28	19	16	16	-	16	14	18	20	20	21	19	12	12	14	12	15	19	26
South		2	3	-	0	0	2	3	2	-	-	0	2	3	3	-	-	2	1	0	-	-	-	-	2	4	7	5	-	3	3	
SUMMARY		11	4	2	8	14	19	24	37	-	-	-	15	30	22	19	16	-	18	15	18	20	20	21	19	14	16	21	17	15	22	29
April 2013		Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	
Lunar Phase																	☾															
North		25	25	31	35	23	16	12	2	2	3	2	1	0	(10)	4	5	4	4	0	14	8	13	11	8	25	25	15	14	6		
South		-	-	4	4	-	-	4	-	10	7	6	5	-	3	5	5	3	4	-	2	-	2	2	4	3	4	-	5	6		
SUMMARY		25	25	35	39	23	16	16	2	12	10	9	7	1	3	15	9	8	8	4	2	14	10	15	13	12	28	29	15	19	12	
May 2013		Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri
Lunar Phase																	☾															
North		25	18	28	12	21	16	15	9	11	6	7	8	6	6	1	3	3	5	5	7	4	8	18	4	7	4	7	12	15	10	11
South		-	1	6	9	-	4	5	4	3	2	1	-	0	2	7	7	-	-	-	3	2	4	1	2	1	-	3	2	3	5	5
SUMMARY		25	19	34	21	21	20	20	13	14	8	8	8	6	8	10	3	5	5	10	6	12	19	6	8	4	10	14	18	15	16	
June 2013		Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	
Lunar Phase																	☾															
North		9	12	6	9	3	7	1	0	(1)	1	(1)	0	0	0	1	1	(1)	1	3	7	4	2	11	1	2	5	10	20	18	18	
South		3	-	3	-	-	3	10	3	7	5	5	9	4	5	4	6	4	3	1	2	2	4	4	3	3	4	-	-	5	4	
SUMMARY		12	12	9	9	3	10	11	3	8	6	6	9	4	5	5	7	5	4	4	9	6	6	15	4	5	9	10	20	23	22	
July 2013		Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed
Lunar Phase																	☾															
North		25	12	15	21	15	15	16	10	12	14	1	13	18	16	21	14	12	4	1	0	(6)	2	0	(5)	5	12	20	26	-	22	31
South		2	6	5	5	4	3	3	5	3	3	3	3	6	8	3	3	4	2	3	2	6	6	3	4	5	5	2	3	-	3	4
SUMMARY		27	18	20	26	19	18	19	15	15	17	4	16	24	24	24	17	16	6	4	2	12	8	3	9	10	17	22	29	0	25	35
August 2013		Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat
Lunar Phase																	☾															
North		14	22	15	13	16	20	17	19	19	17	23	16	10	14	18	28	12	11	8	18	18	16	25	21	-	5	6	-	0	12	1
South		4	5	8	8	10	8	10	2	3	3	4	4	0	1	5	3	3	3	-	4	3	3	4	-	5	2	2	7	7	4	0
SUMMARY		18	27	23	21	26	28	27	21	22	20	27	20	10	15	23	31	15	14	8	22	21	19	29	21	5	7	8	7	7	16	1
September 2013		Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	
Lunar Phase																	☾															
North		1	6	2	1	3	5	4	7	11	13	5	9	4	4	0	0	0	0	0	1	0	0	0	0	(1)	0	0	-	0	-	
South		-	8	4	7	8	8	7	4	7	4	8	6	5	5	-	4	3	4	6	7	5	6	11	11	11	11	13	7	6	7	
SUMMARY		1	14	6	8	11	13	11	11	18	17	13	15	9	9	0	4	3	4	6	8	5	6	11	11	12	11	13	7	6	7	
October 2013		Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur
Lunar Phase																	☾															
North		5	5	(8)	4	9	8	14	26	33	26	26	-	12	21	9	7	21	23	24	25	17	13	20	32	39	28	31	27	24	8	15
South		6	2	4	5	4	6	3	3	4	7	4	-	5	2	5	5	6	4	3	3	2	1	3	5	4	-	6	8	7	7	4
SUMMARY		11	7	12	9	13	14	17	29	37	33	30	-	17	23	14	12	27	27	27	28	19	14	23	37	43	28	37	35	31	15	19
November 2013		Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Sun	Mon	Tues	Wed	Thur	Fri	Sat	
Lunar Phase																	☾															
North		13	21	26	21	28	33	24	18	6	3	2	5	11	6	12	12	33	33	31	20	24	26	28	27	31	30	19	32	19	20	
South		2	2	-	5	4	3	5	3	2	2	2	2	1	1	2	2	2	-	5	5	3	3	4	3	4	5	-	-	-	-	
SUMMARY		15	23	26	26	32	36	29	21	8	5	4	7	12	7	14	14	35	33	36	25	27	29	32	30	35	35	19	32	19	20	
December 2013		Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues
Lunar Phase																	☾															
North		16	10	17	5	17	4	4	-	4	4	2	1	2	0	0	7	21	13	13	-	-	-	6	7	0	-	0	0	0	(2)	
South		-	6	7	7	3	2	4	1	3	3	-	2	-	3	4	2	1	2	6	-	-	4	4	4	-	-	2	3	5	3	6
SUMMARY		16	16	24	12	20	6	8	1	7	7	2	3	2	3	4	9	22	15	19	-	-	4	10	11	0	-	2	3	5	3	8



**"Ratio of Charters to Successful Manta Ray Sightings" (Success Rate)
and "Average Number of Sightings"
at "Manta Heaven" and "Manta Village" in 2013**

Kona Coast, Big Island of Hawaii, USA

2013	Success Rate	actual charters	How many times did we get skunked?	How many nights did we see Manta Rays?	no info available	Average Number of Sightings based on actual charter	possible charters
Manta Heaven (North)	90%	343	32	311	22	11	365
Manta Village (South)	96%	295	11	284	70	4	365
JANUARY 2013							
Manta Heaven (North)	96%	25	1	24	6	9	31
Manta Village (South)	89%	18	2	16	13	2	31
FEBRUARY 2013							
Manta Heaven (North)	89%	27	3	24	1	7	28
Manta Village (South)	91%	23	2	21	5	2	28
MARCH 2013							
Manta Heaven (North)	100%	27	0	27	4	16	31
Manta Village (South)	80%	20	4	16	11	2	31
APRIL 2013							
Manta Heaven (North)	93%	30	2	28	0	11	30
Manta Village (South)	100%	21	0	21	9	4	30
MAY 2013							
Manta Heaven (North)	100%	31	0	31	0	10	31
Manta Village (South)	96%	24	1	23	7	3	31
JUNE 2013							
Manta Heaven (North)	87%	30	4	26	0	5	30
Manta Village (South)	100%	25	0	25	5	4	30
JULY 2013							
Manta Heaven (North)	93%	30	2	28	1	12	31
Manta Village (South)	100%	30	0	30	1	4	31
AUGUST 2013							
Manta Heaven (North)	97%	29	1	28	2	15	31
Manta Village (South)	93%	29	2	27	2	4	31
SEPTEMBER 2013							
Manta Heaven (North)	57%	28	12	16	2	3	30
Manta Village (South)	100%	28	0	28	2	7	30
OCTOBER 2013							
Manta Heaven (North)	100%	30	0	30	1	18	31
Manta Village (South)	100%	29	0	29	2	4	31
NOVEMBER 2013							
Manta Heaven (North)	100%	30	0	30	0	20	30
Manta Village (South)	100%	24	0	24	6	3	30
DECEMBER 2013							
Manta Heaven (North)	73%	26	7	19	5	6	31
Manta Village (South)	100%	24	0	24	7	4	31

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"Travelers" between "Manta Heaven" and "Manta Village" in 2013

Kona Coast, Big Island of Hawaii, USA

Each count equals a travel of approx. 14 miles between the sites within 24-96 h

2013		January	February	March	April	May	June	July	August	September	October	November	December	Σ
1	Big Bertha		1					1	2		2	1		7
2	BooBoo		1	1			1		2					5
3	Delaney	1	1			3								5
4	Eli		1											1
5	Grayer									1	1			2
6	Jana Ray										2			2
7	Jorden	1				1	1	2	1		1	1		8
8	Kailey		1		1	1	1		2	1			1	8
9	Kai-Zed									1				1
10	Kapono			2										2
11	Koie	1					1	2	4		3			11
12	Lee Ray										2	4		6
13	Lefty					2					1			3
14	Lighting		1											1
15	Linda	1	3		1	3	1	1	1			1	2	14
16	Mango					2	2							4
17	Margo				1	3					1			5
18	Melainah	3	1	3	2	1		2	1		3	2	4	22
19	Miles		1											1
20	Orion Ray								4					4
21	Peg									1			2	3
22	Ralph's Ray			1				2	2	1	4	1	1	12
23	Reece			1										1
24	Re-Nata				1	2								3
25	Scar			2	1								1	4
26	Sugar			2	2			2		2				8
27	Takahashi			1	2	2								5
28	Teresa			2										2
29	Vallaray		1	5	4	6	6	2	1		4	1	1	31
30	Vicky			2			1	1		2	1			7

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Total Number of Individual Manta Rays seen during the Night Dive per month in 2013

Kona Coast, Big Island of Hawaii, USA

2013	Total Number of Individual Manta Rays seen each month during Night Dive
January	47
February	46
March	54
April	56
May	56
June	49
July	55
August	57
September	35
October	59
November	62
December	52