

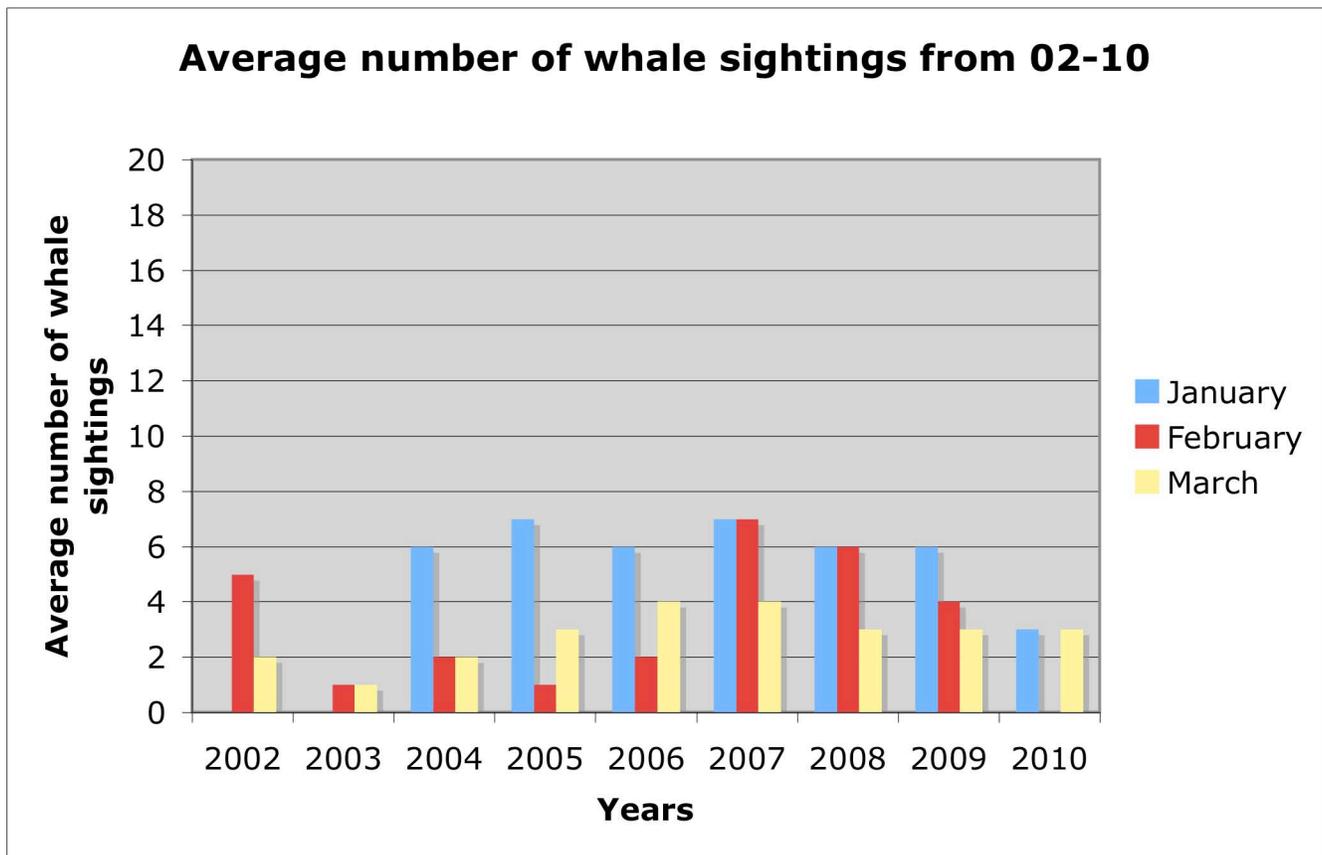
Island: Kauai

Site# 16: Pacific Missile Range Facility

Elevation: 15 ft

Coastline: West Shore

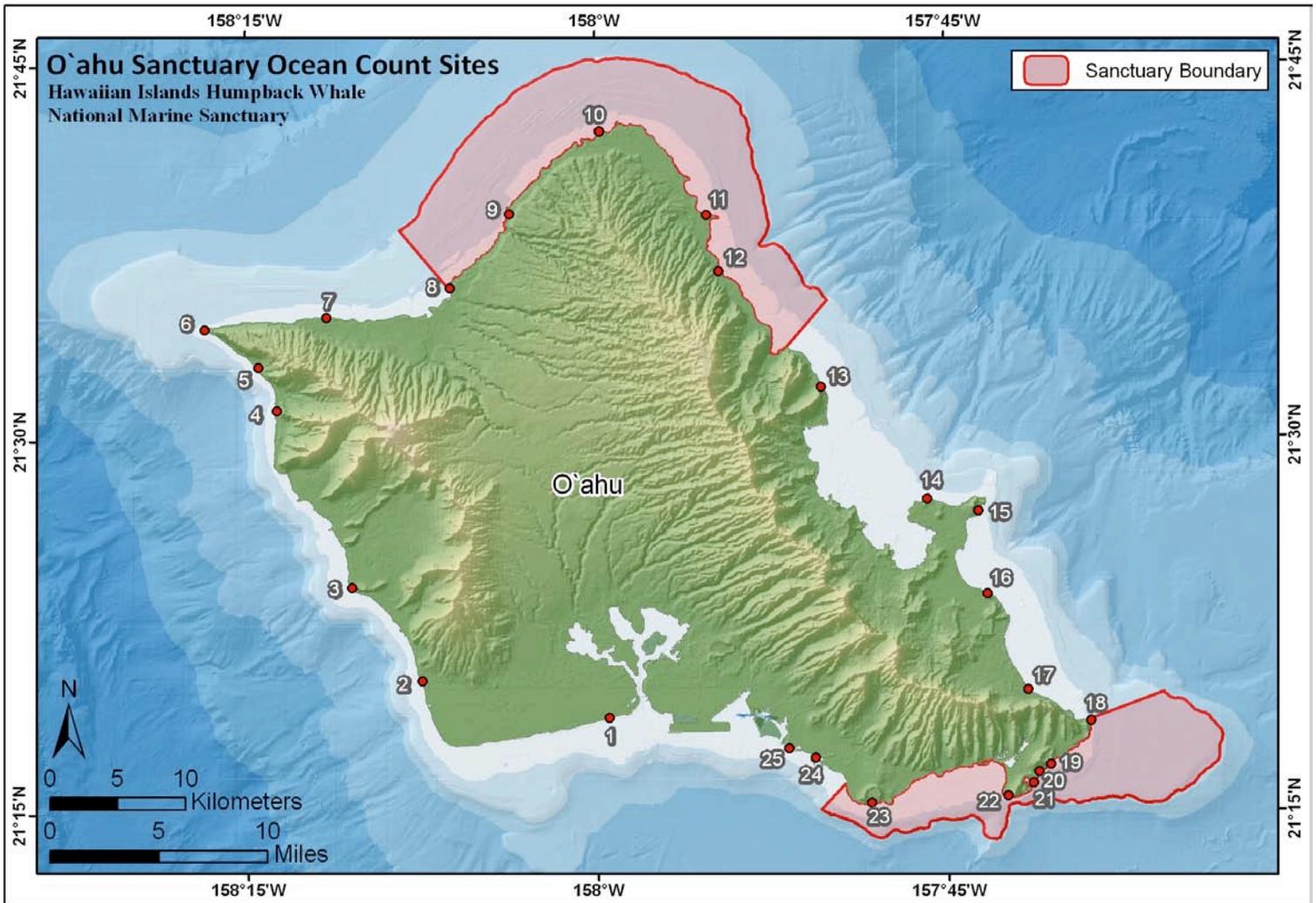
Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	NA	5	2
2003	0	1	1
2004	6	2	2
2005	7	1	3
2006	6	2	4
2007	7	7	4
2008	6	6	3
2009	6	4	3
2010	3	NA	3



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Pacific Missile Range Facility on the island of Kauai.

Oahu Ocean Count Sites



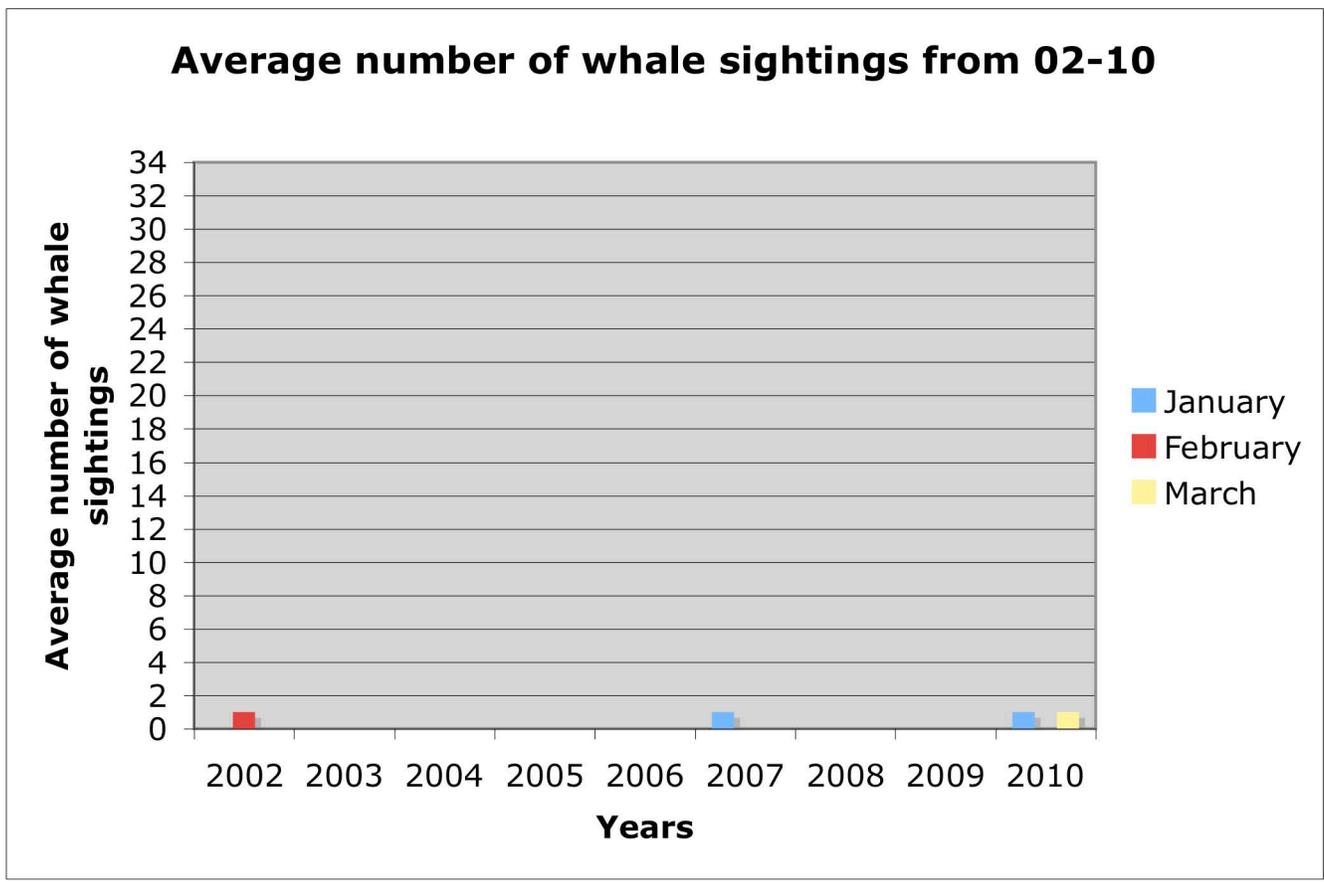
Island: Oahu

Site# 1: Ewa Beach Park

Elevation: 10 ft

Coastline: South Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	1	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0
2007	1	0	0
2008	0	0	0
2009	0	0	0
2010	1	0	1



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Ewa Beach Park on the island of Oahu.

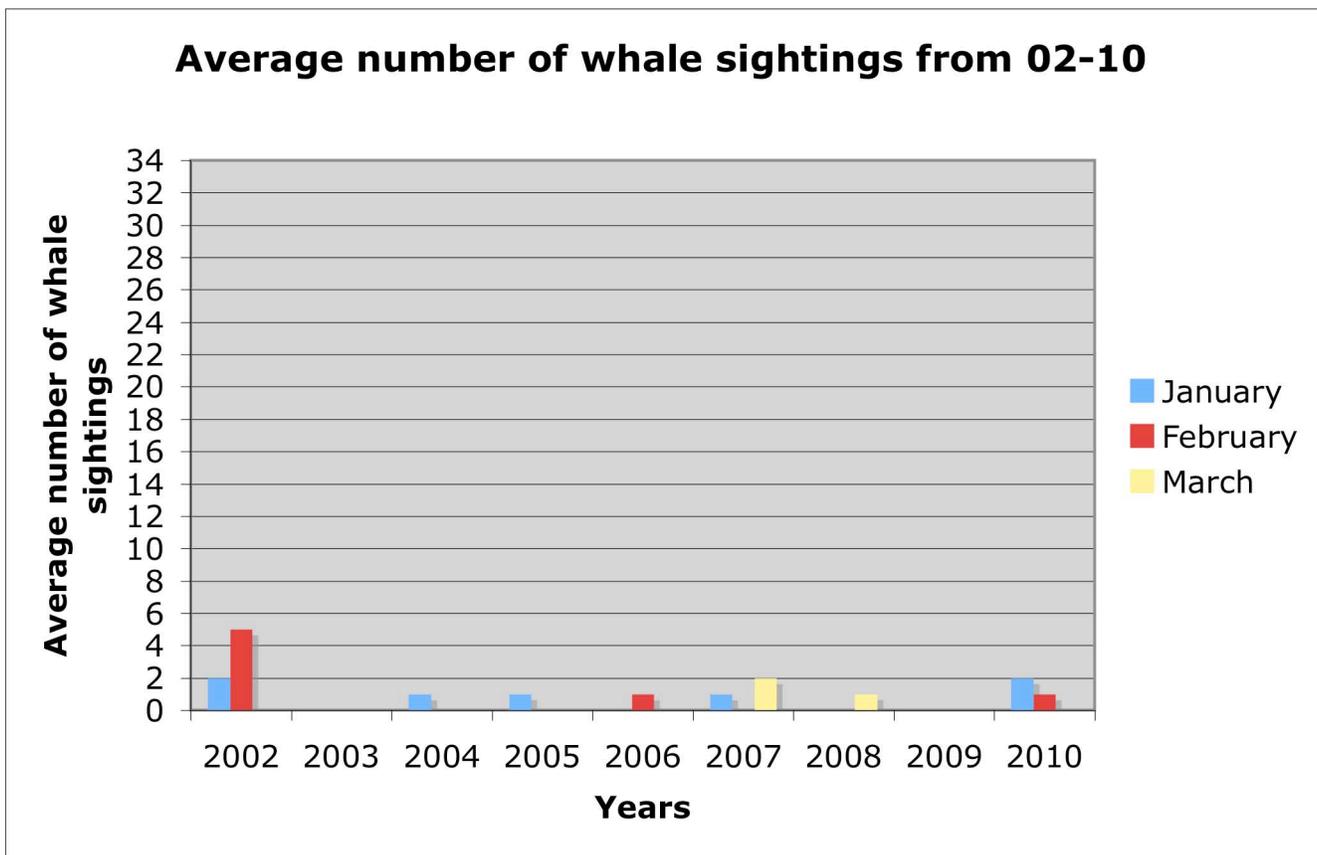
Island: Oahu

Site# 2: Ko Olina

Elevation: 10-40 ft

Coastline: Waianae

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	2	5	0
2003	0	0	0
2004	1	0	0
2005	1	0	0
2006	0	1	0
2007	1	0	2
2008	0	0	1
2009	0	0	0
2010	2	1	0



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Ko Olina on the island of Oahu.

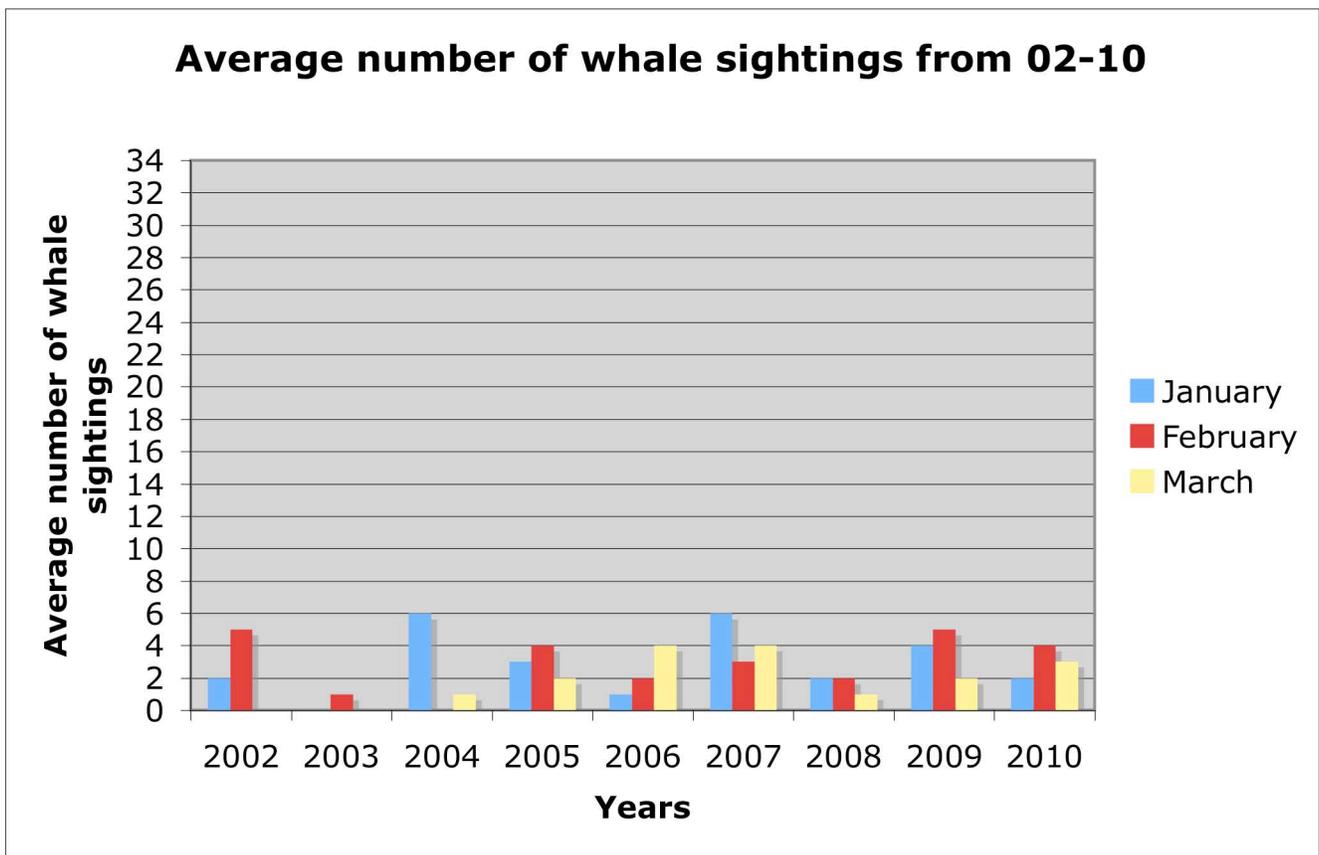
Island: Oahu

Site# 3: Maili Point

Elevation: 100 ft

Coastline: Waianae Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	2	5	0
2003	0	1	0
2004	6	0	1
2005	3	4	2
2006	1	2	4
2007	6	3	4
2008	2	2	1
2009	4	5	2
2010	2	4	3



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Maili Point on the island of Oahu.

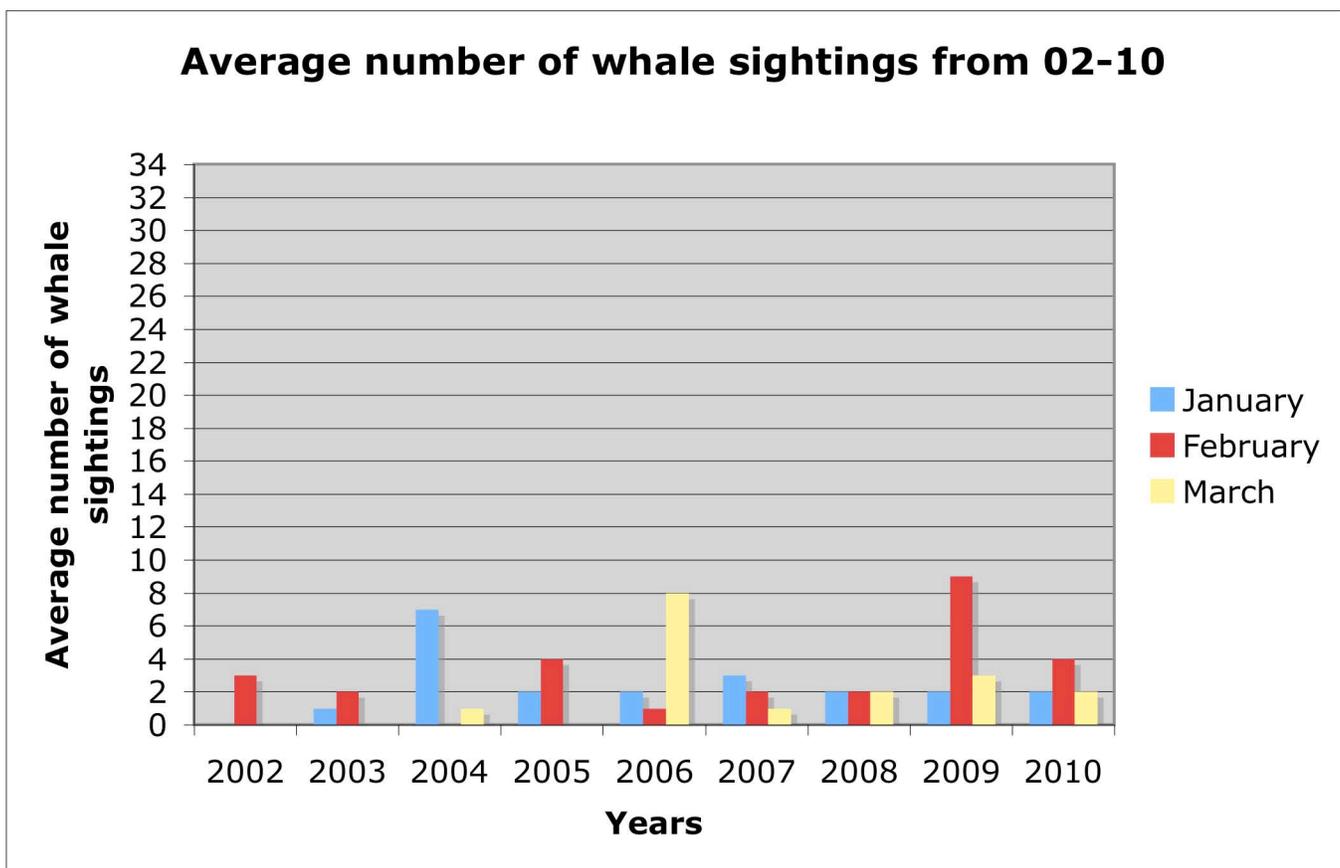
Island: Oahu

Site# 4: Makua Cave

Elevation: 20 ft

Coastline: Waianae

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	3	0
2003	1	2	0
2004	7	0	1
2005	2	4	NA
2006	2	1	8
2007	3	2	1
2008	2	2	2
2009	2	9	3
2010	2	4	2



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Makau Cave on the island of Oahu.

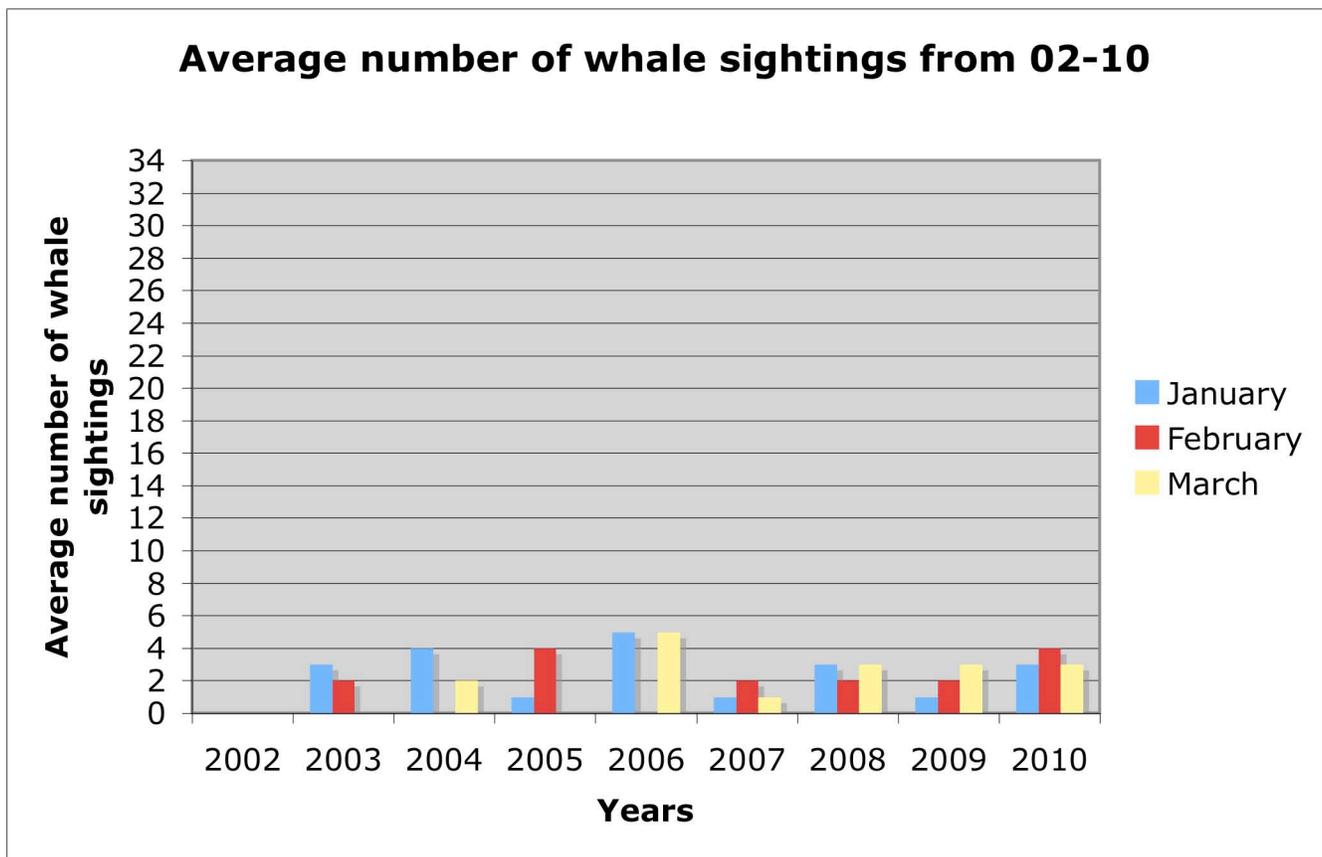
Island: Oahu

Site#5: Kaena Point (West)

Elevation: 40 ft

Coastline: North Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	NA	NA
2003	3	2	0
2004	4	NA	2
2005	1	4	0
2006	5	NA	5
2007	1	2	1
2008	3	2	3
2009	1	2	3
2010	3	4	3



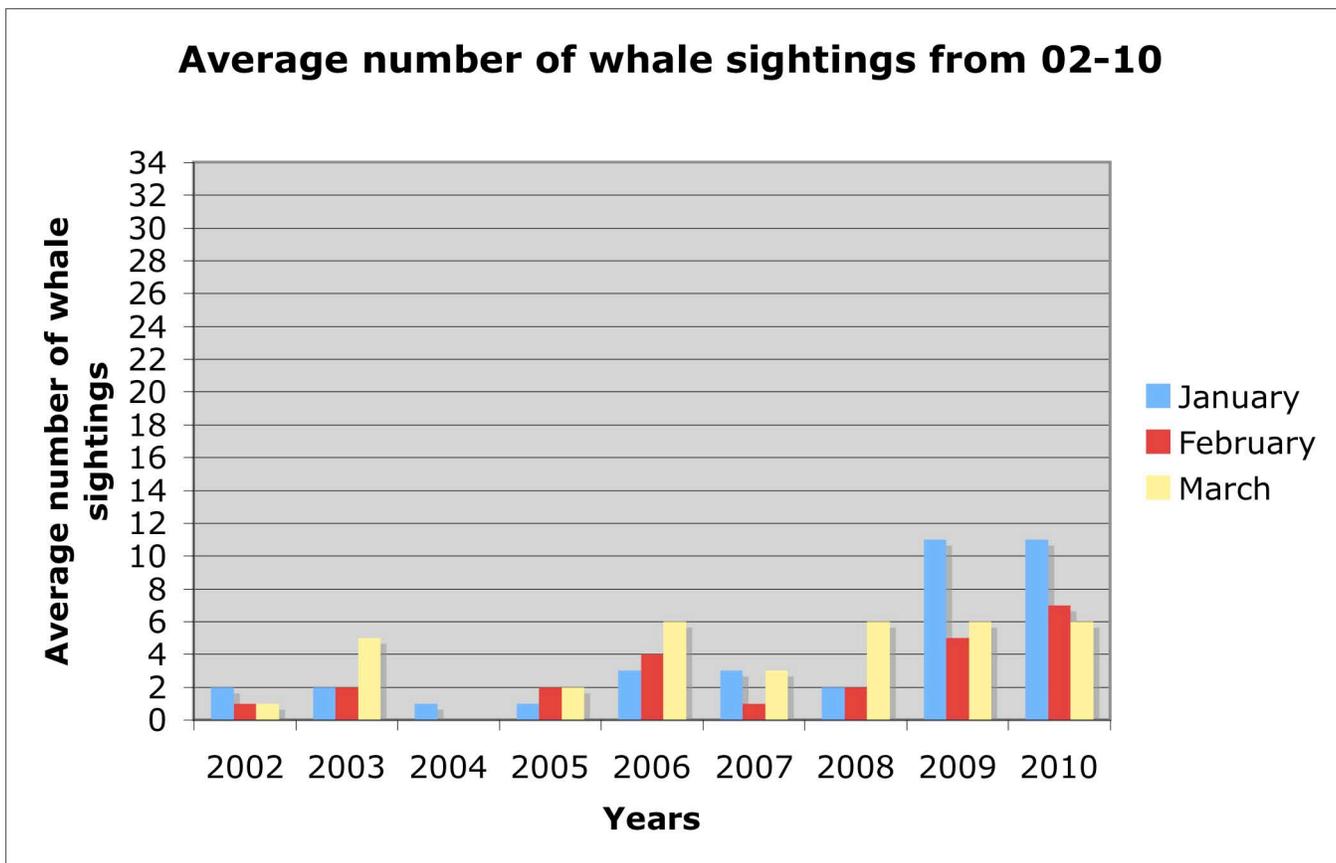
Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Kaena Point (West) on the island of Oahu.

Island: Oahu
Elevation: 20 ft

Site# 6: Kaena Point North
Coastline: North Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	2	1	1
2003	2	2	5
2004	1	NA	NA
2005	1	2	2
2006	3	4	6
2007	3	1	3
2008	2	2	6
2009	11	5	6
2010	11	7	6



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Kaena Point North on the island of Oahu.

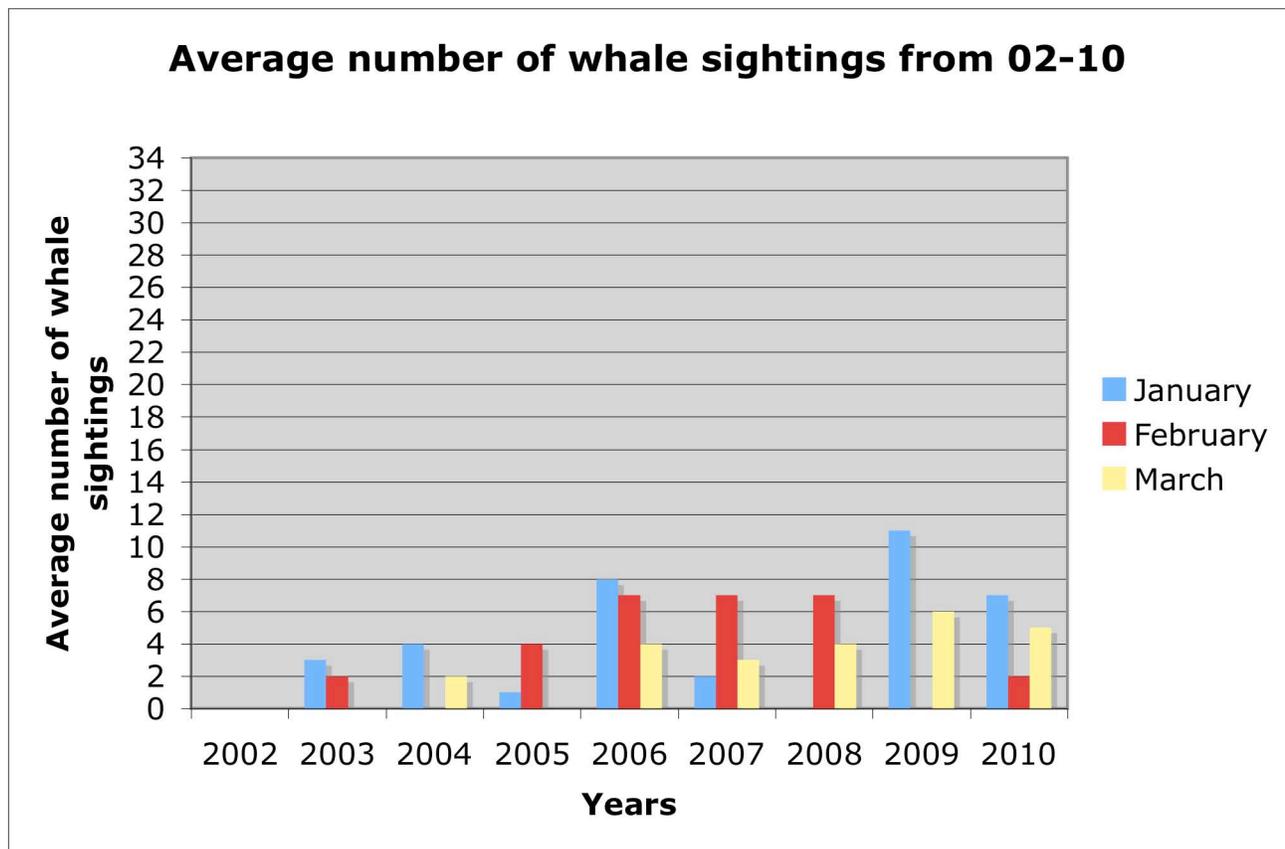
Island:Oahu

Site# 7: Mokuleia Beach Park

Elevation: 20 ft

Coastline: North Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	NA	NA
2003	3	2	0
2004	4	NA	2
2005	1	4	0
2006	8	7	4
2007	2	7	3
2008	0	7	4
2009	11	0	6
2010	7	2	5



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Mokuleia Beach Park on the island of Oahu.

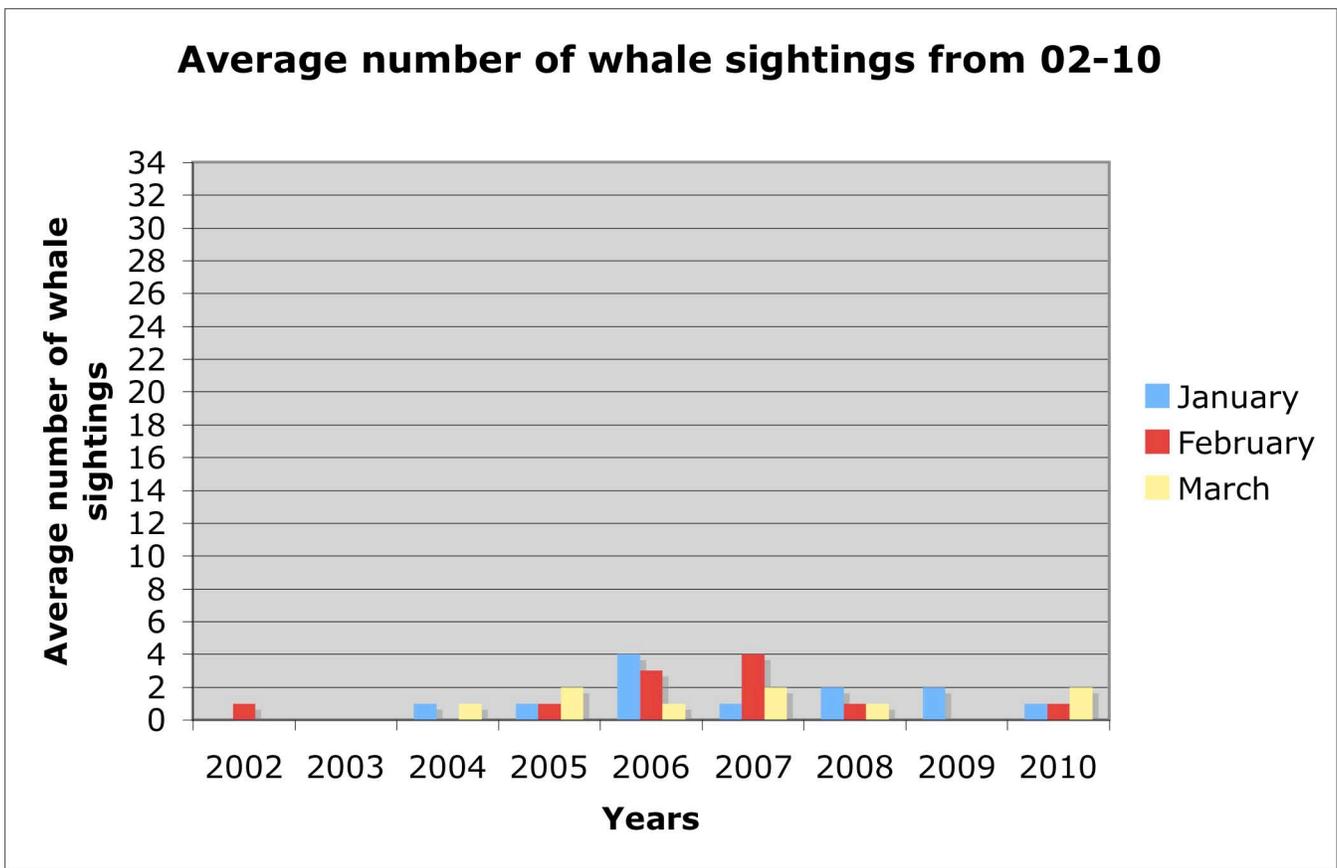
Island: Oahu

Site# 8: Puaena Point

Elevation: 20 ft

Coastline: North Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	1	0
2003	0	0	0
2004	1	NA	1
2005	1	1	2
2006	4	3	1
2007	1	4	2
2008	2	1	1
2009	2	0	0
2010	1	1	2



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Puaena Point on the island of Oahu.

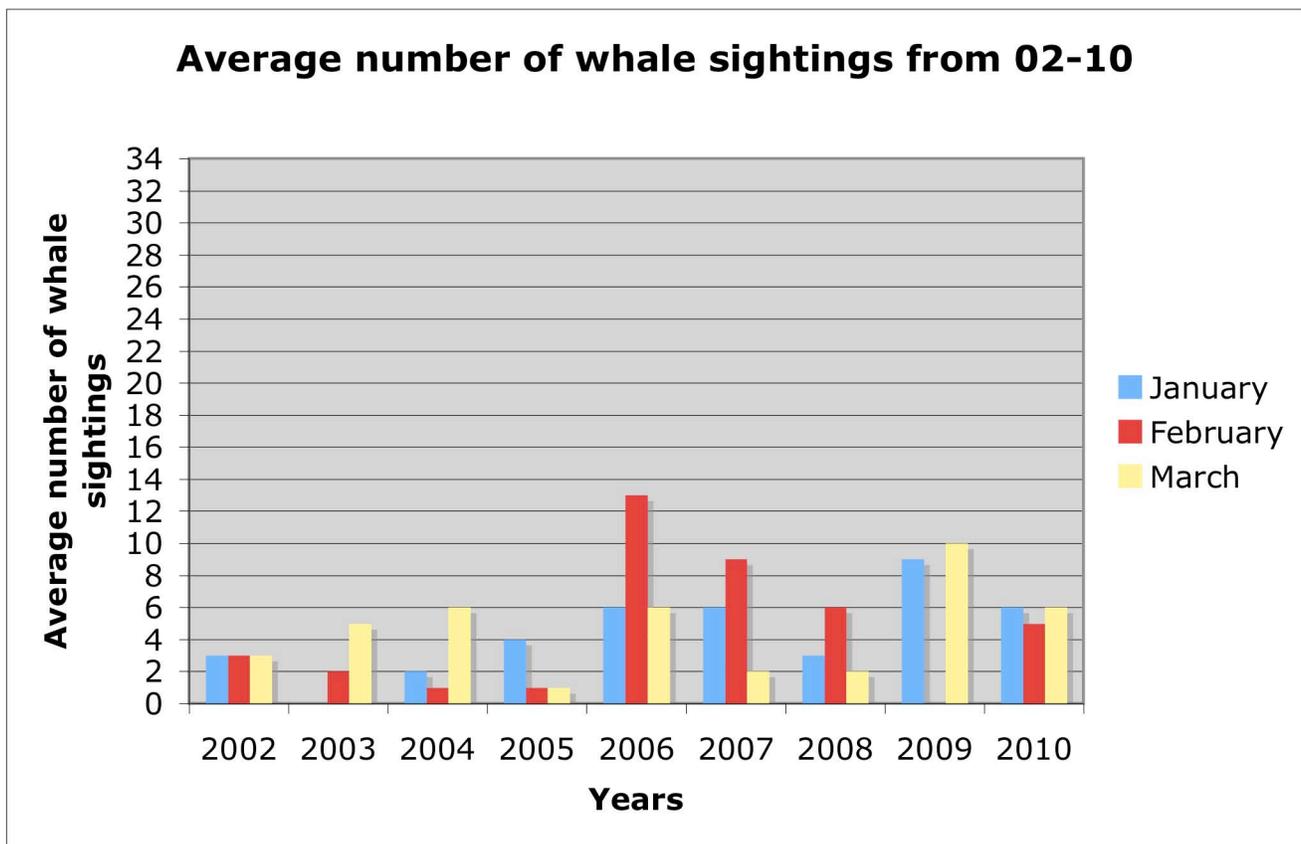
Island: Oahu

Site# 9: Shark's Cove

Elevation: 30 ft

Coastline: North Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	3	3	3
2003	0	2	5
2004	2	1	6
2005	4	1	1
2006	6	13	6
2007	6	9	2
2008	3	6	2
2009	9	0	10
2010	6	5	6



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Shark's Cove on the island of Oahu.

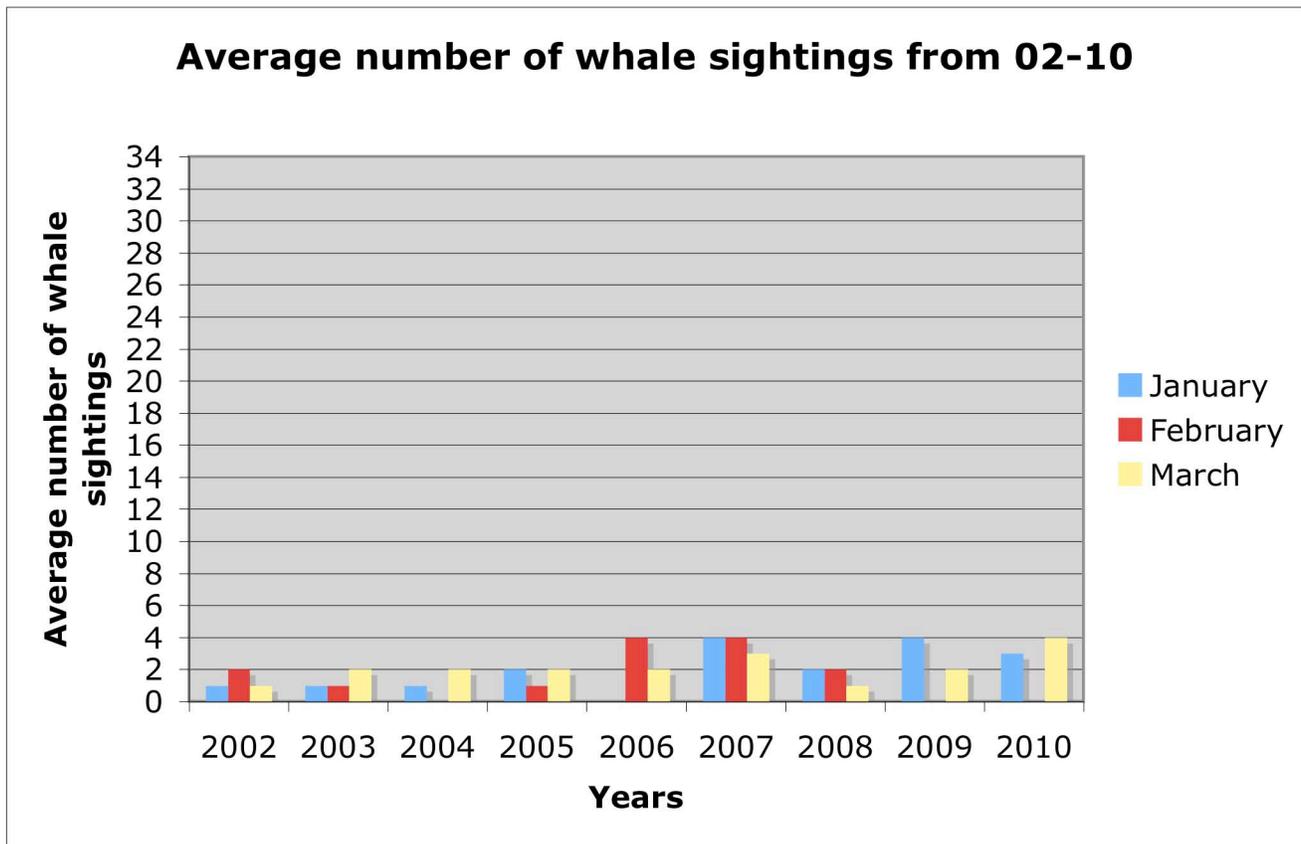
Island: Oahu

Site# 10: Turtle Bay

Elevation: 20 ft

Coastline: North Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	1	2	1
2003	1	1	2
2004	1	0	2
2005	2	1	2
2006	0	4	2
2007	4	4	3
2008	2	2	1
2009	4	0	2
2010	3	NA	4



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Turtle Bay on the island of Oahu.

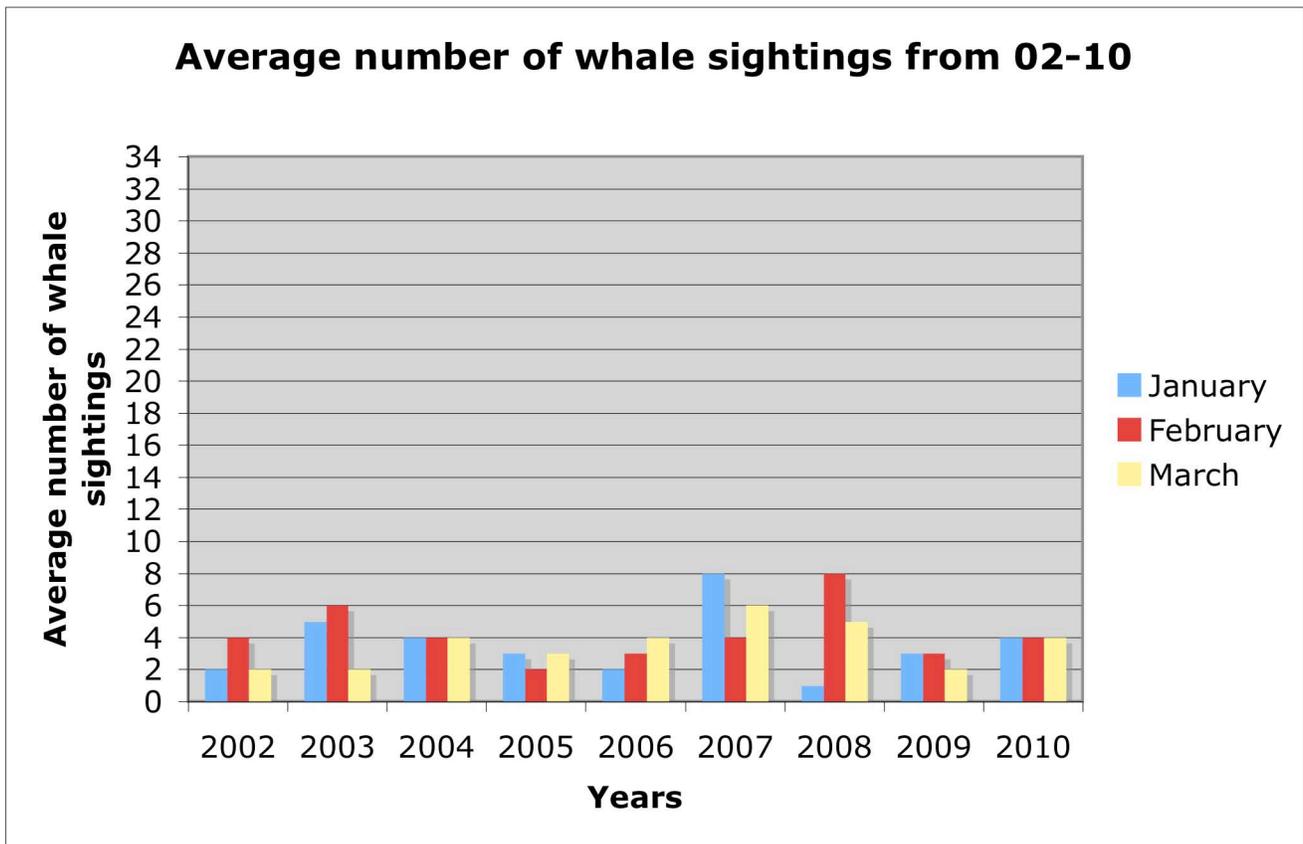
Island: Oahu

Site#11: Laie Point

Elevation: 40 ft

Coastline: North Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	2	4	2
2003	5	6	2
2004	4	4	4
2005	3	2	3
2006	2	3	4
2007	8	4	6
2008	1	8	5
2009	3	3	2
2010	4	4	4



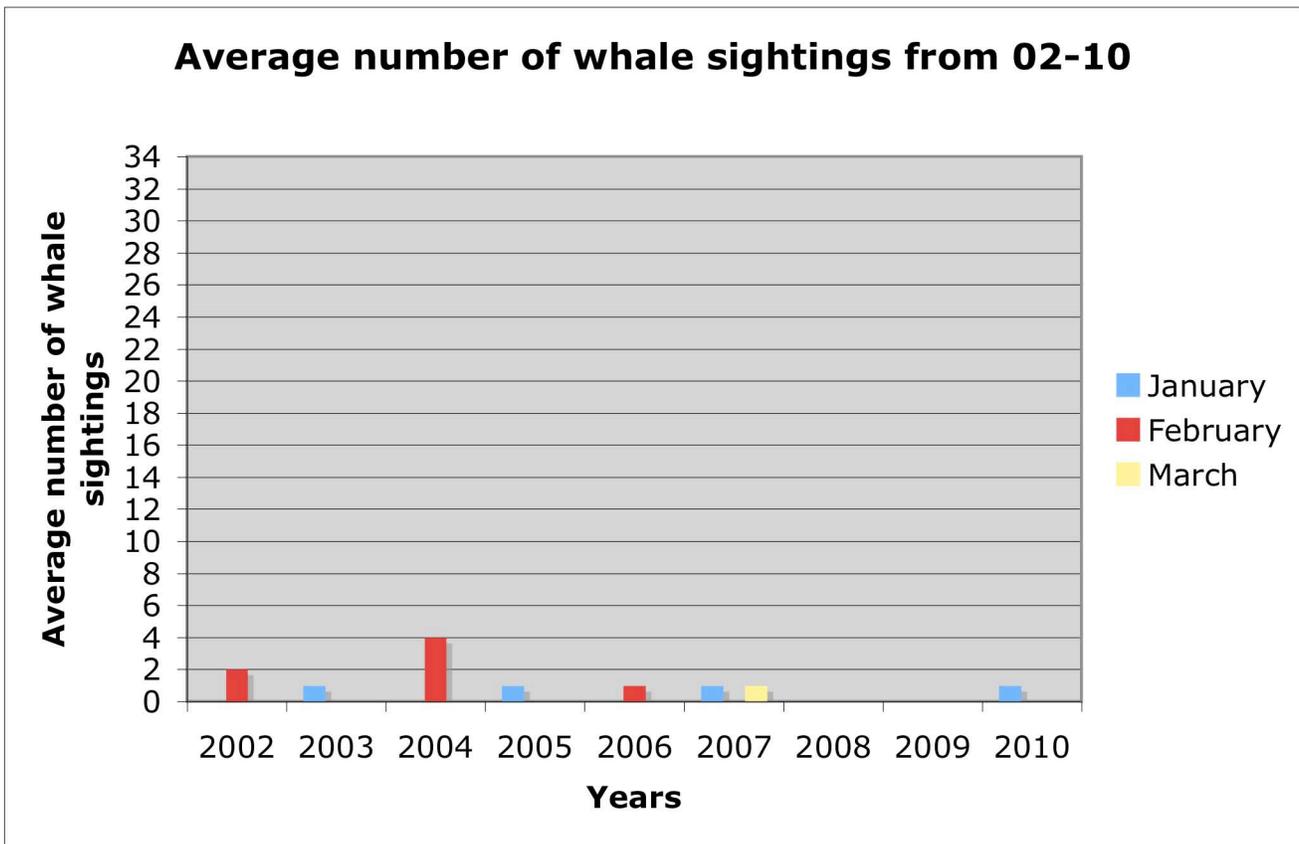
Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Laie Point on the island of Oahu.

Island: Oahu
Elevation: 0 ft

Site # 12 : Hauula Beach Park
Coastline: North Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	2	0
2003	1	0	0
2004	0	4	0
2005	1	0	NA
2006	0	1	0
2007	1	0	1
2008	NA	NA	NA
2009	0	0	0
2010	1	NA	NA



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Hauula Beach Park on the island of Oahu.

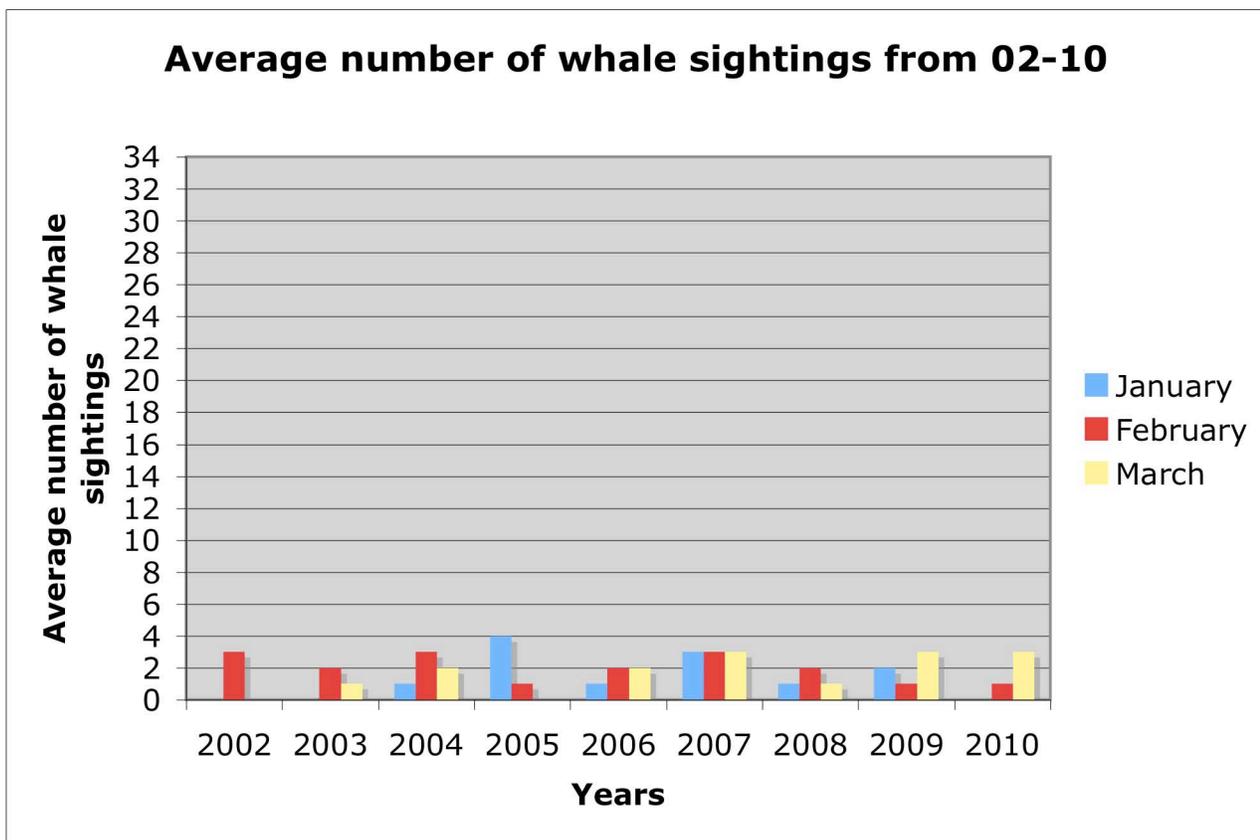
Island: Oahu

Site# 13: Kualoa Ranch

Elevation: 150 ft

Coastline: North Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	3	0
2003	0	2	1
2004	1	3	2
2005	4	1	0
2006	1	2	2
2007	3	3	3
2008	1	2	1
2009	2	1	3
2010	NA	1	3

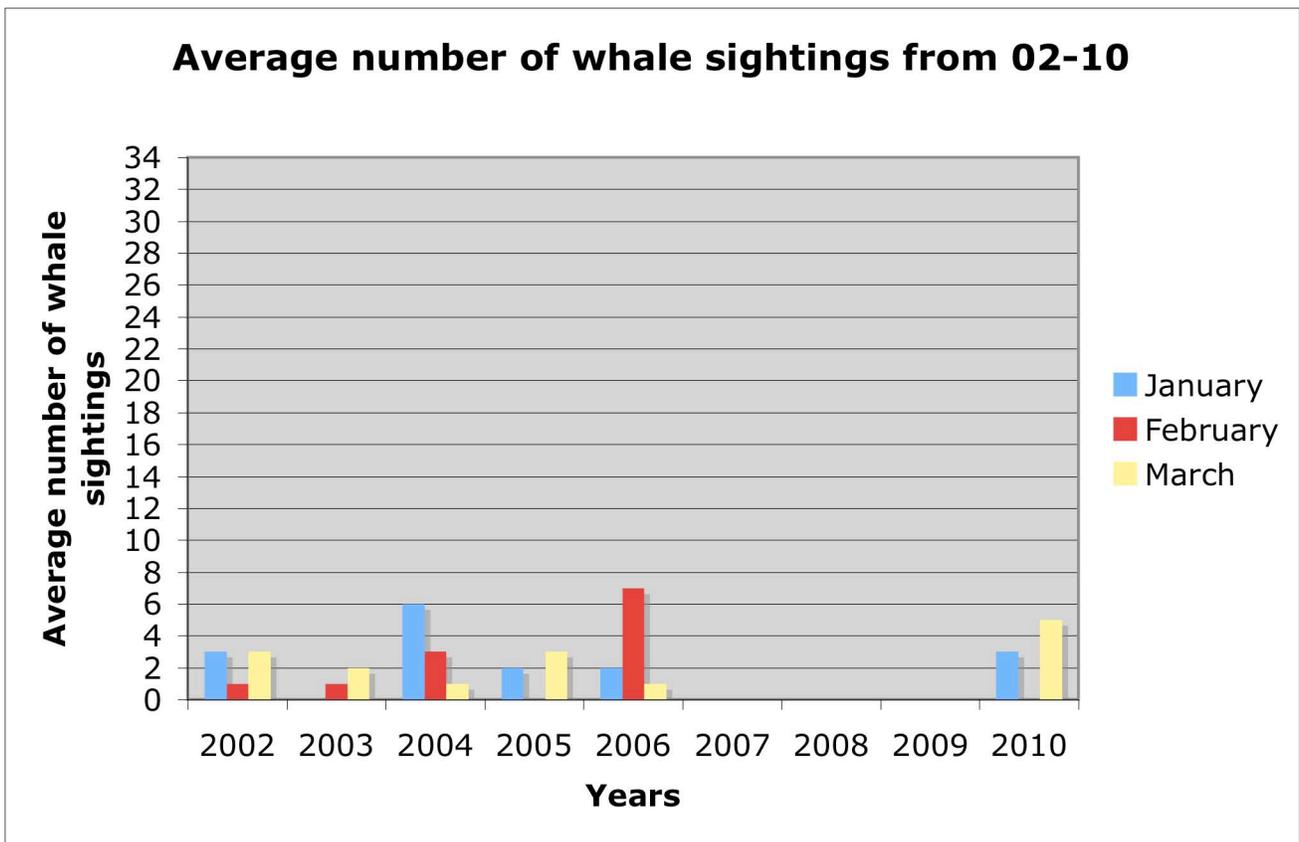


Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Kualoa Ranch on the island of Oahu.

Island: Oahu Site# 14:Pyramid Rock
 Elevation: 20-100 ft Coastline: Windward Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	3	1	3
2003	0	1	2
2004	6	3	1
2005	2	NA	3
2006	2	7	1
2007	NA	NA	NA
2008	NA	NA	NA
2009	NA	NA	NA
2010	3	NA	5



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Pyramid Rock on the island of Oahu.

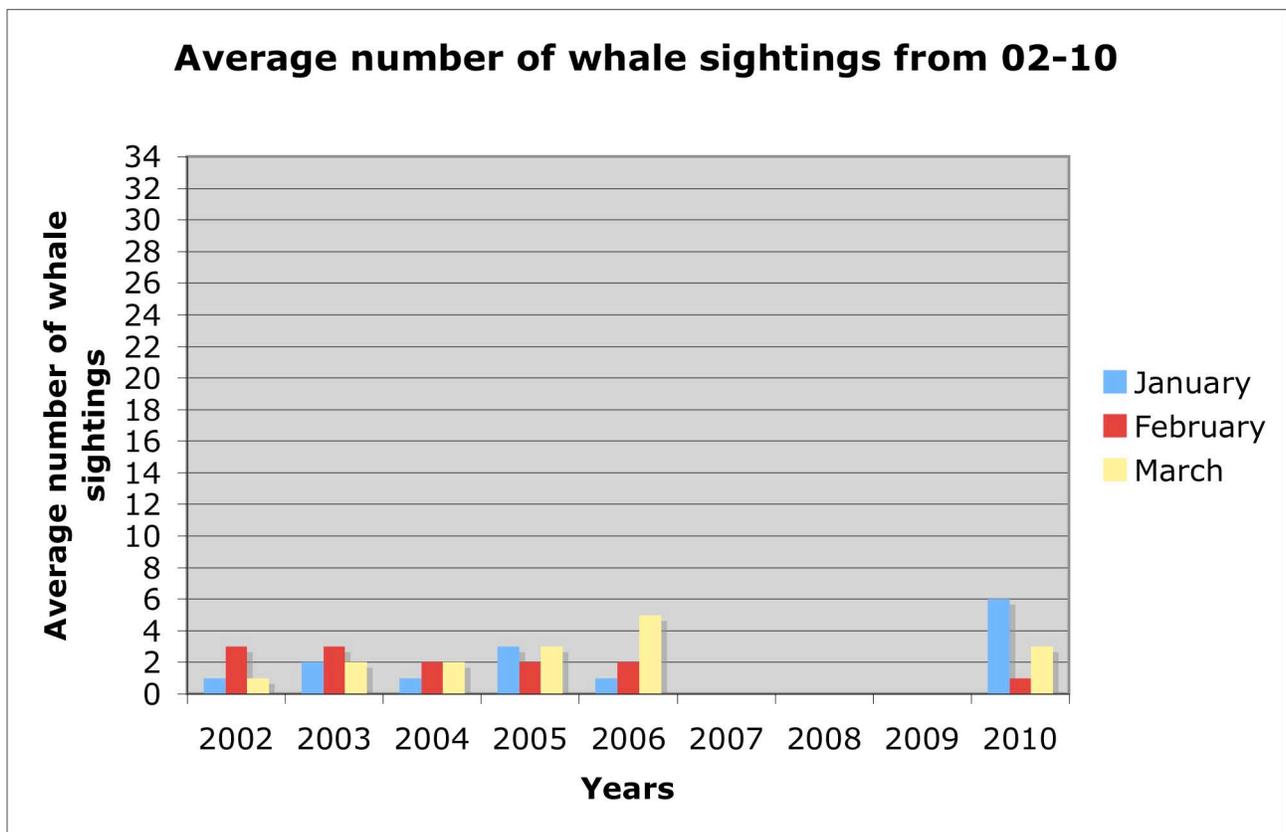
Island: Oahu

Site# 15: Mokapu Point

Elevation: 120 ft

Coastline: Windward coast

Years	January	February	March
2002	1	3	1
2003	2	3	2
2004	1	2	2
2005	3	2	3
2006	1	2	5
2007	NA	NA	NA
2008	NA	NA	NA
2009	NA	NA	NA
2010	6	1	3



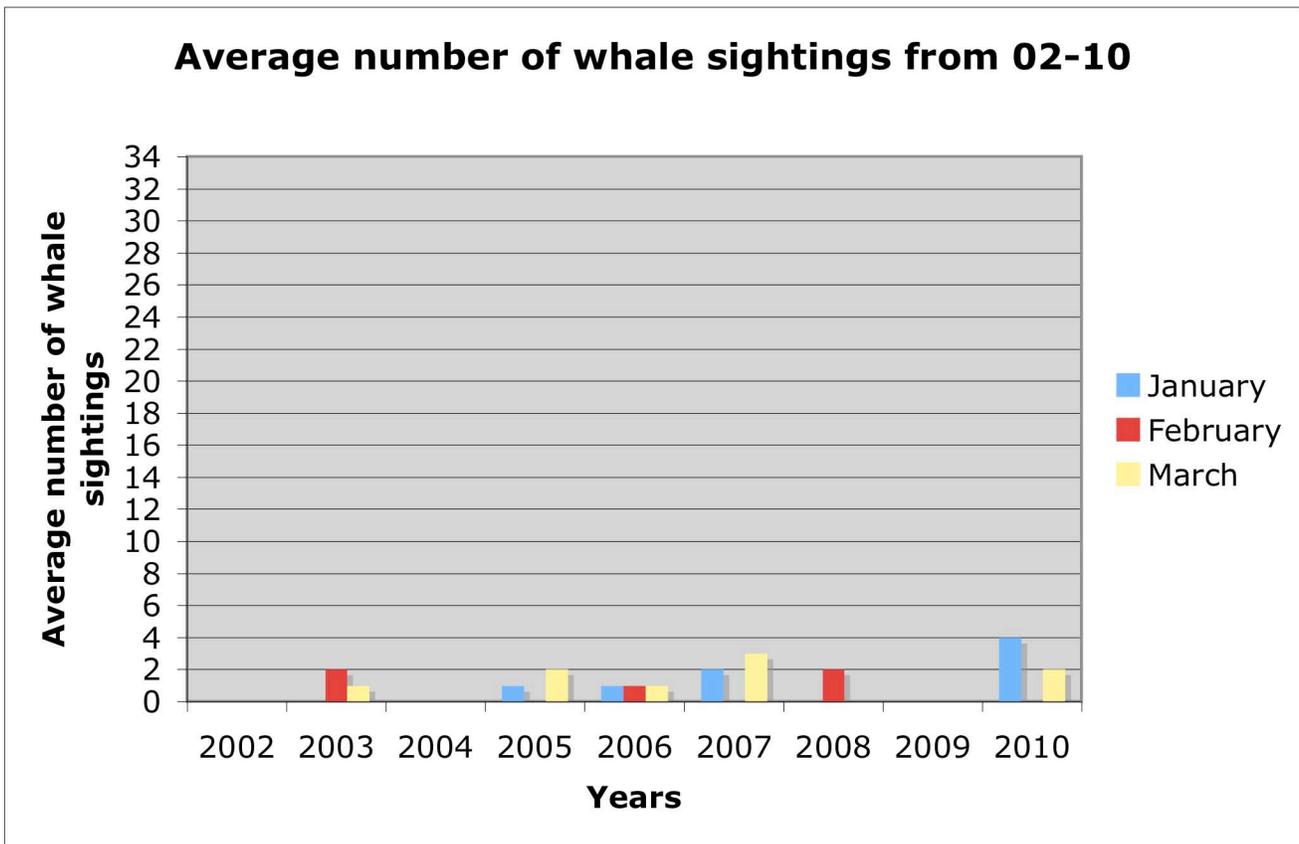
Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Mokapu Point on the island of Oahu.

Island: Oahu
Elevation: 30 ft

Site#16: Lanikai Beach
Coastline: Windward Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	NA	0	NA
2003	0	2	1
2004	0	0	0
2005	1	0	2
2006	1	1	1
2007	2	0	3
2008	0	2	0
2009	0	0	0
2010	4	0	2



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Lanikai Beach on the island of Oahu.

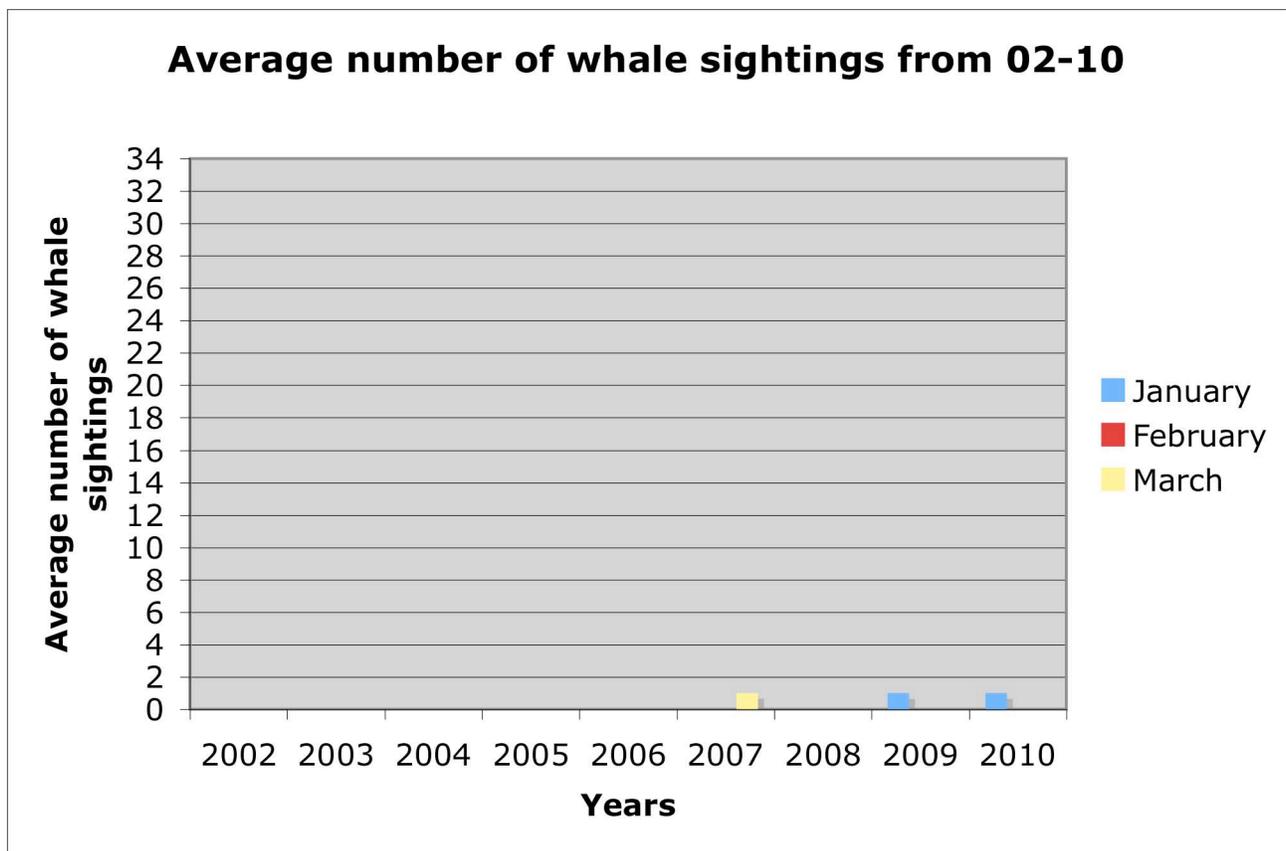
Island: Oahu

Site# 17: Waimanalo Beach Park

Elevation: 0 ft

Coastline: Windward Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0
2007	0	0	1
2008	0	0	0
2009	1	0	0
2010	1	0	0



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Waimanalo Beach Park on the island of Oahu.

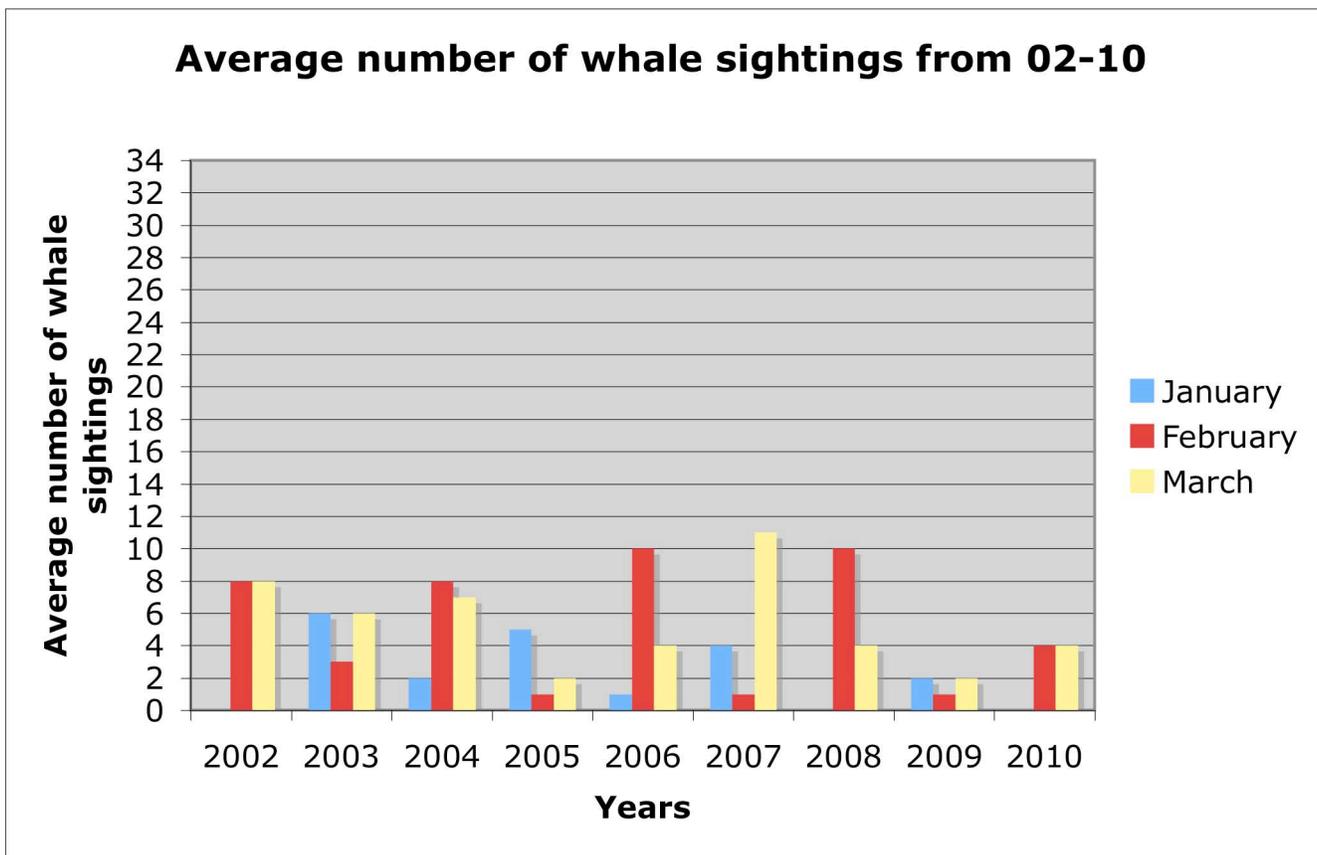
Island: Oahu

Site# 18: Makapuu Point Lighthouse

Elevation: 400 ft

Coastline: Windward Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	8	8
2003	6	3	6
2004	2	8	7
2005	5	1	2
2006	1	10	4
2007	4	1	11
2008	0	10	4
2009	2	1	2
2010	NA	4	4



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Makapuu Point Lighthouse on the island of Oahu.

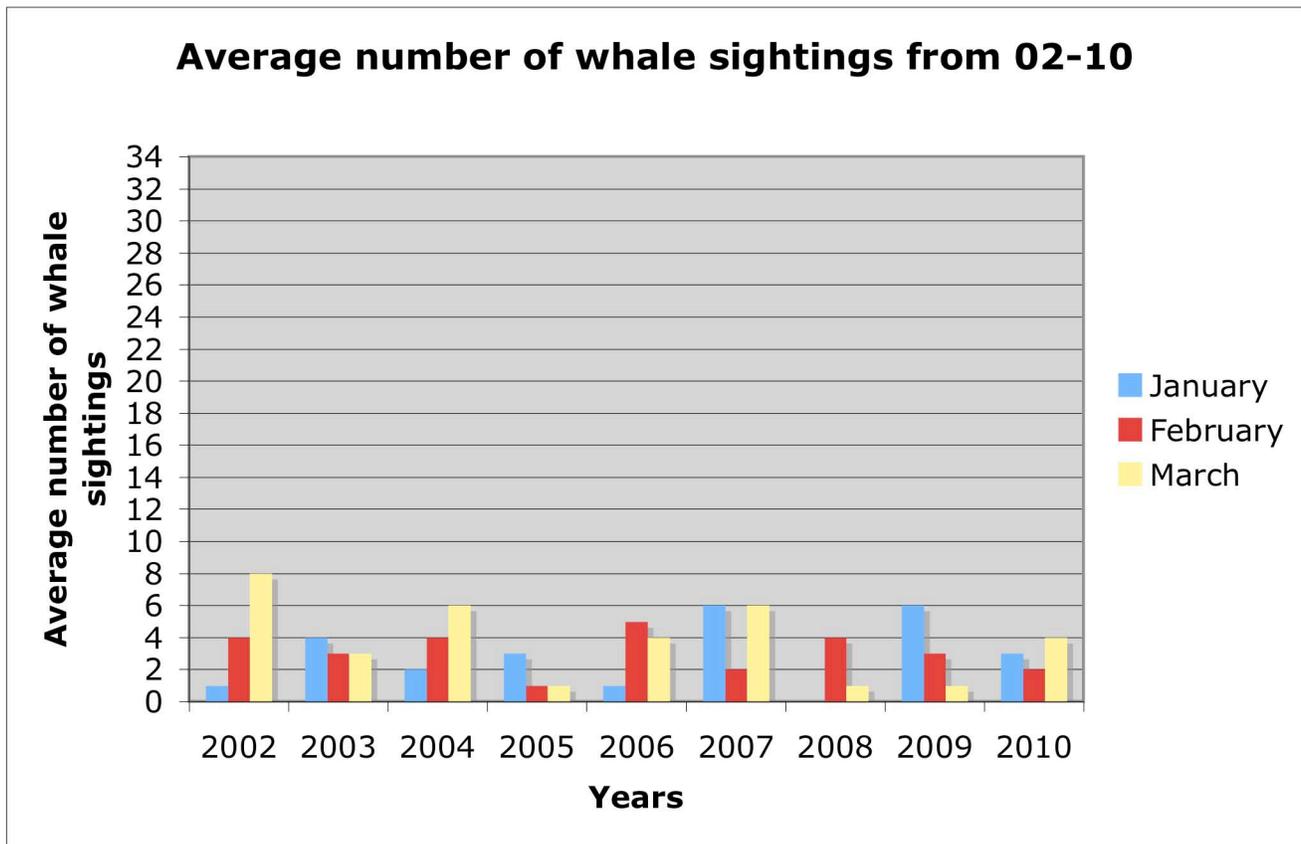
Island: Oahu

Site#19:Halona Blowhole

Elevation: 70 ft

Coastline: Windward

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	1	4	8
2003	4	3	3
2004	2	4	6
2005	3	1	1
2006	1	5	4
2007	6	2	6
2008	0	4	1
2009	6	3	1
2010	3	2	4



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Halona Blowhole on the island of Oahu.

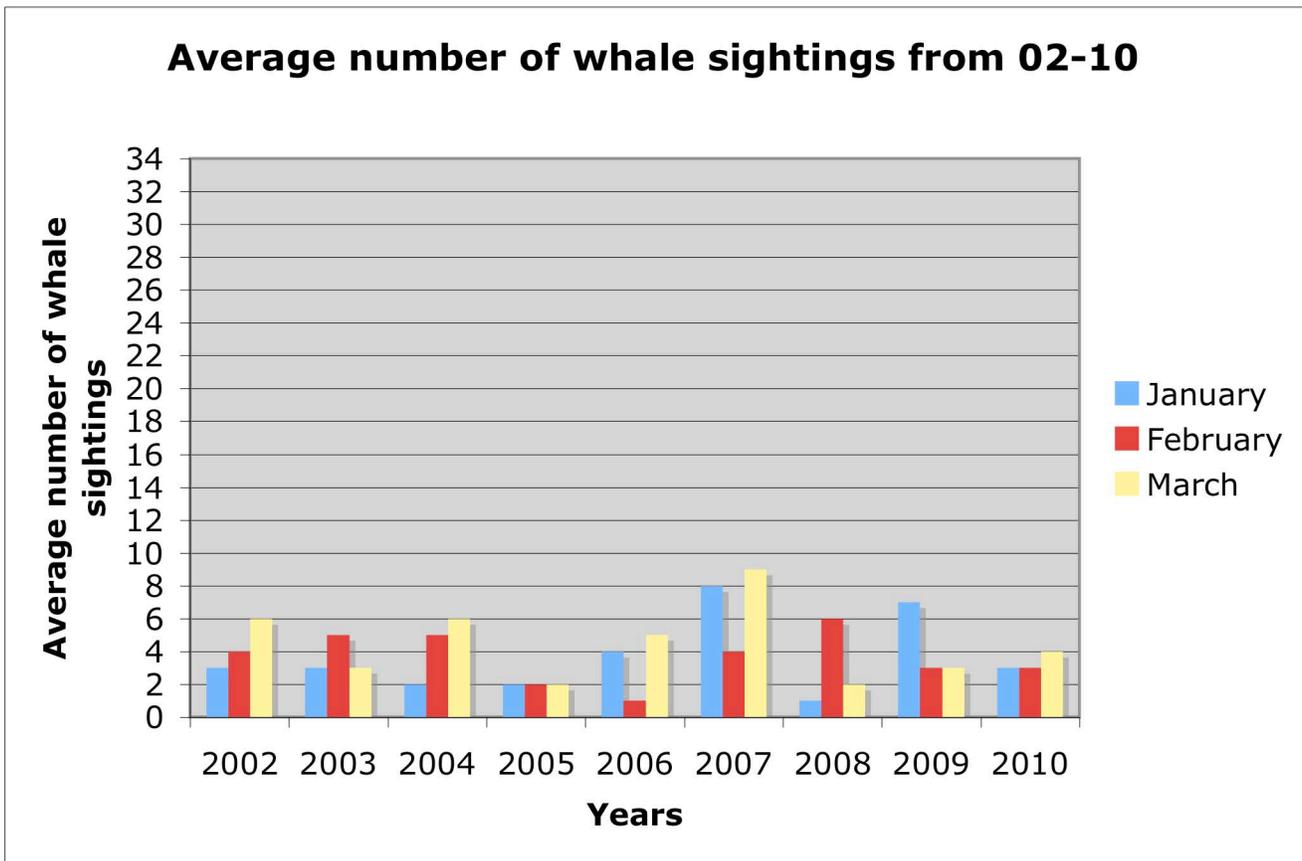
Island: Oahu

Site# 20: Lanai Lookout

Elevation: 80 ft

Coastline: Windward Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	3	4	6
2003	3	5	3
2004	2	5	6
2005	2	2	2
2006	4	1	5
2007	8	4	9
2008	1	6	2
2009	7	3	3
2010	3	3	4



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Lanai Lookout on the island of Oahu.

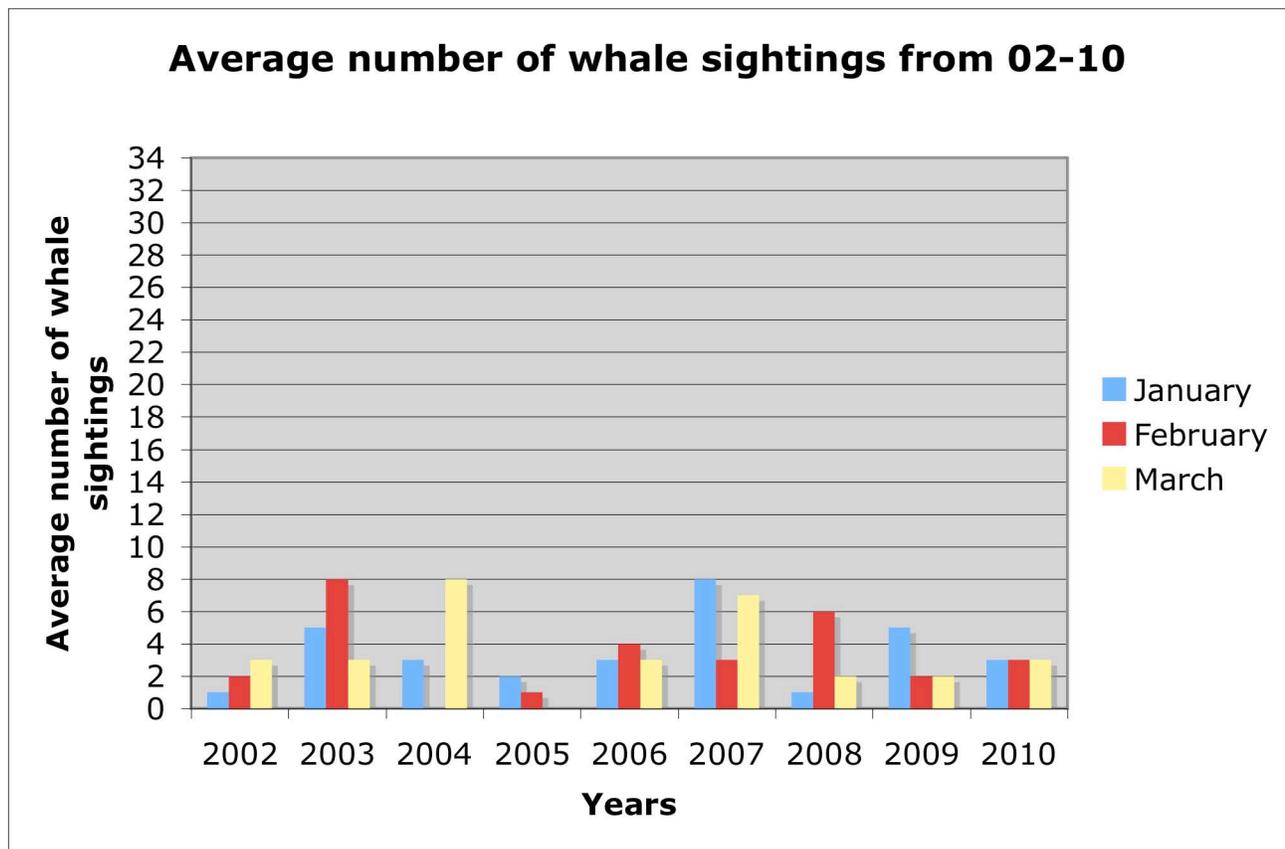
Island: Oahu

Site# 21: Hanauma Bay

Elevation: 80-120 ft

Coastline: Windward Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	1	2	3
2003	5	8	3
2004	3	NA	8
2005	2	1	NA
2006	3	4	3
2007	8	3	7
2008	1	6	2
2009	5	2	2
2010	3	3	3



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Hanauma Bay on the island of Oahu.

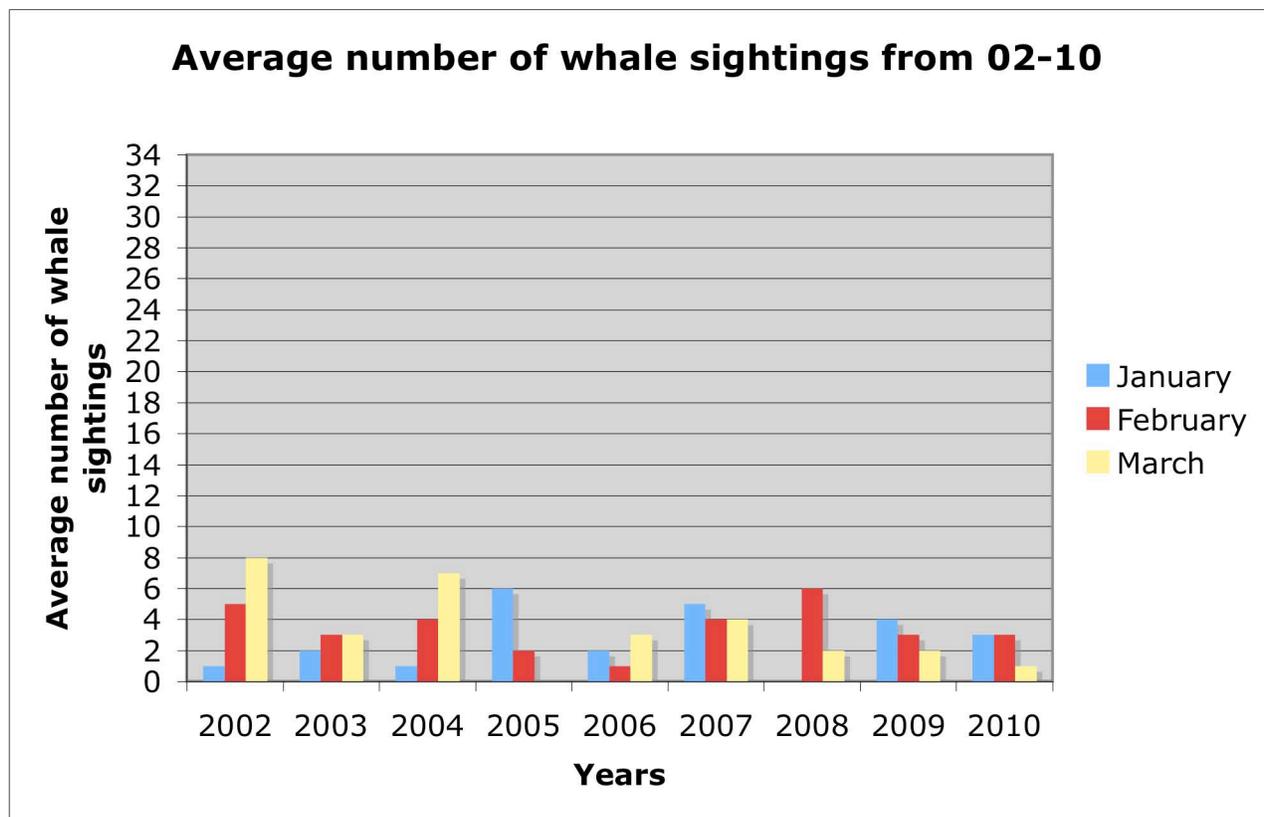
Island: Oahu

Site# 22: Spitting Caves

Elevation: 50 mft

Coastline: Windward Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	1	5	8
2003	2	3	3
2004	1	4	7
2005	6	2	NA
2006	2	1	3
2007	5	4	4
2008	0	6	2
2009	4	3	2
2010	3	3	1

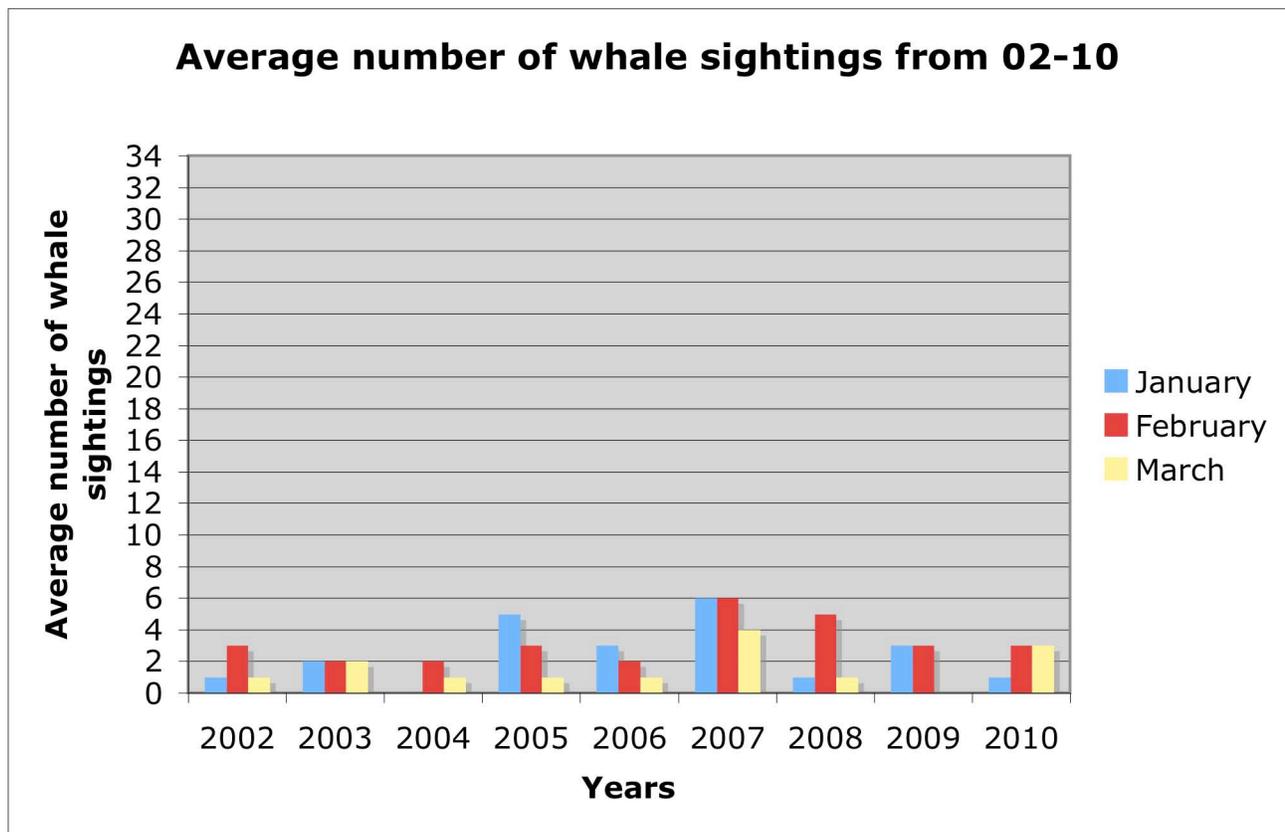


Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Spitting Caves on the island of Oahu.

Island:Oahu Site# 23:Diamond Head Lookout
 Elevation: 120 ft Coastline: South Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	1	3	1
2003	2	2	2
2004	0	2	1
2005	5	3	1
2006	3	2	1
2007	6	6	4
2008	1	5	1
2009	3	3	0
2010	1	3	3

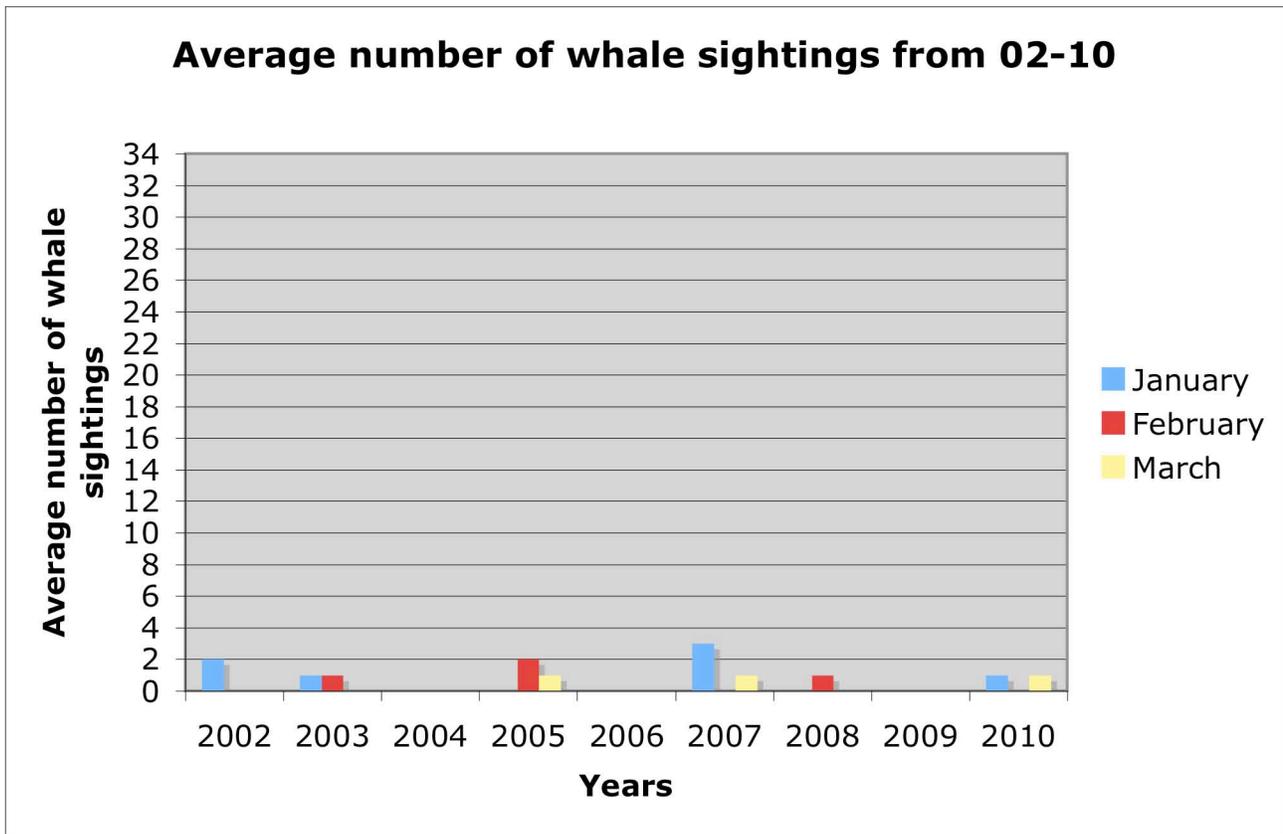


Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Diamond Head Lookout on the island of Oahu.

Island: Oahu Site#24:Magic Island
 Elevation: 0-10 ft Coastline: South Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	2	0	0
2003	1	1	0
2004	0	0	0
2005	0	2	1
2006	0	0	0
2007	3	0	1
2008	0	1	0
2009	0	NA	0
2010	1	0	1



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Magic Island on the island of Oahu.

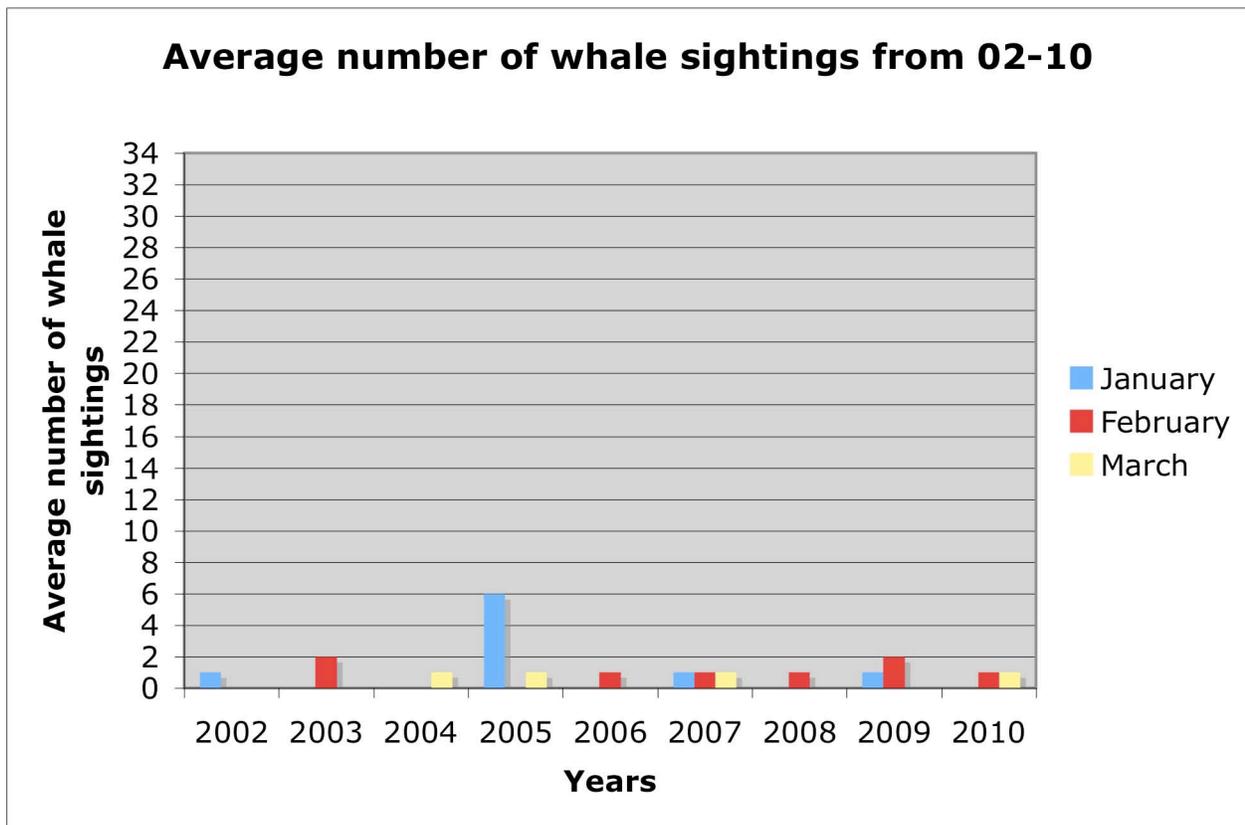
Island: Oahu

Site# 25: Kakaakao Beach Park

Elevation: 20-60 ft

Coastline: South Shore

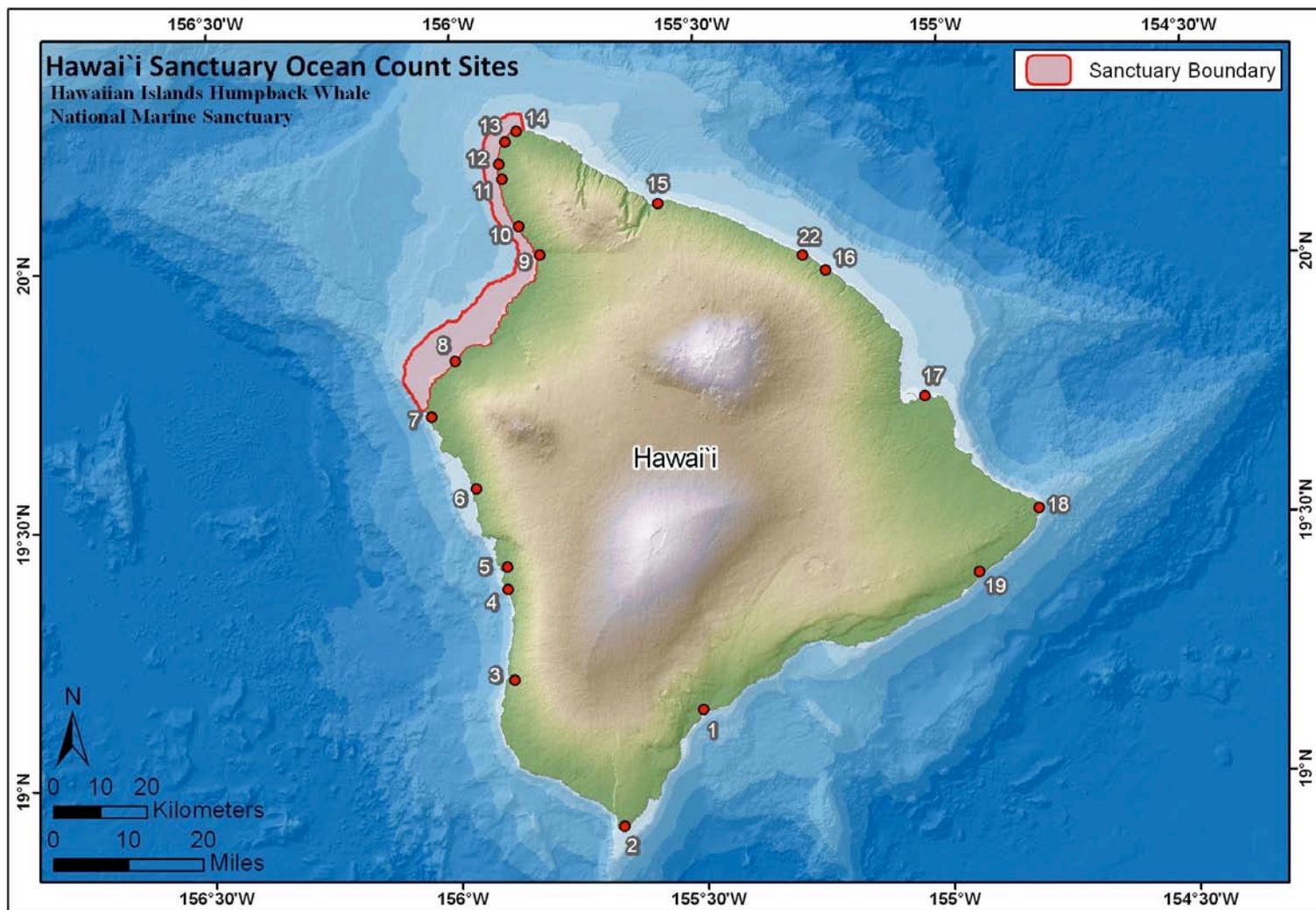
Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	1	0	0
2003	0	2	0
2004	0	NA	1
2005	6	0	1
2006	0	1	0
2007	1	1	1
2008	0	1	0
2009	1	2	0
2010	NA	1	1



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Kakaakao Beach Park on the island of Oahu.

Hawaii Island Ocean Count Sites



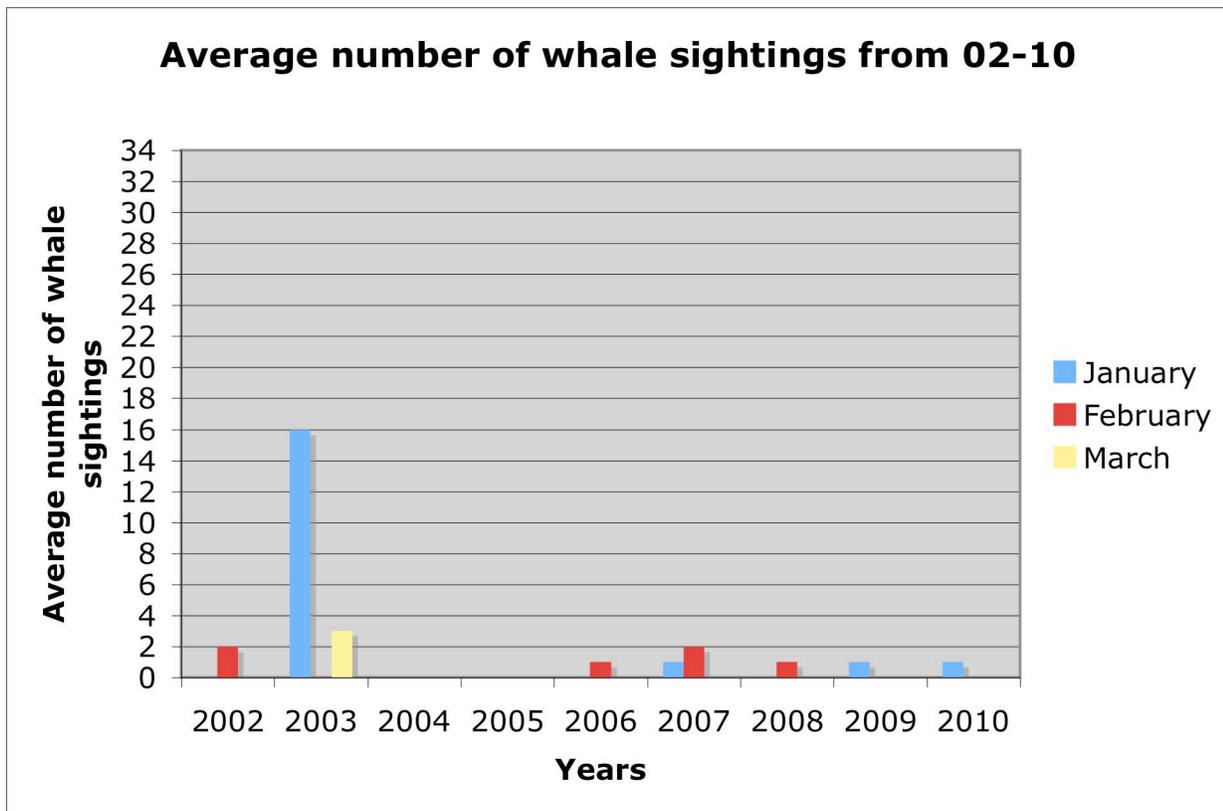
Island: Hawaii

Site# 1: Punaluu Black Sand Beach Park

Elevation: 20 ft

Coastline: South Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	2	0
2003	16	0	3
2004	0	NA	NA
2005	0	0	0
2006	0	1	0
2007	1	2	0
2008	0	1	0
2009	1	0	0
2010	1	0	0



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Punaluu Black Sand Beach Park on the island of Hawaii.

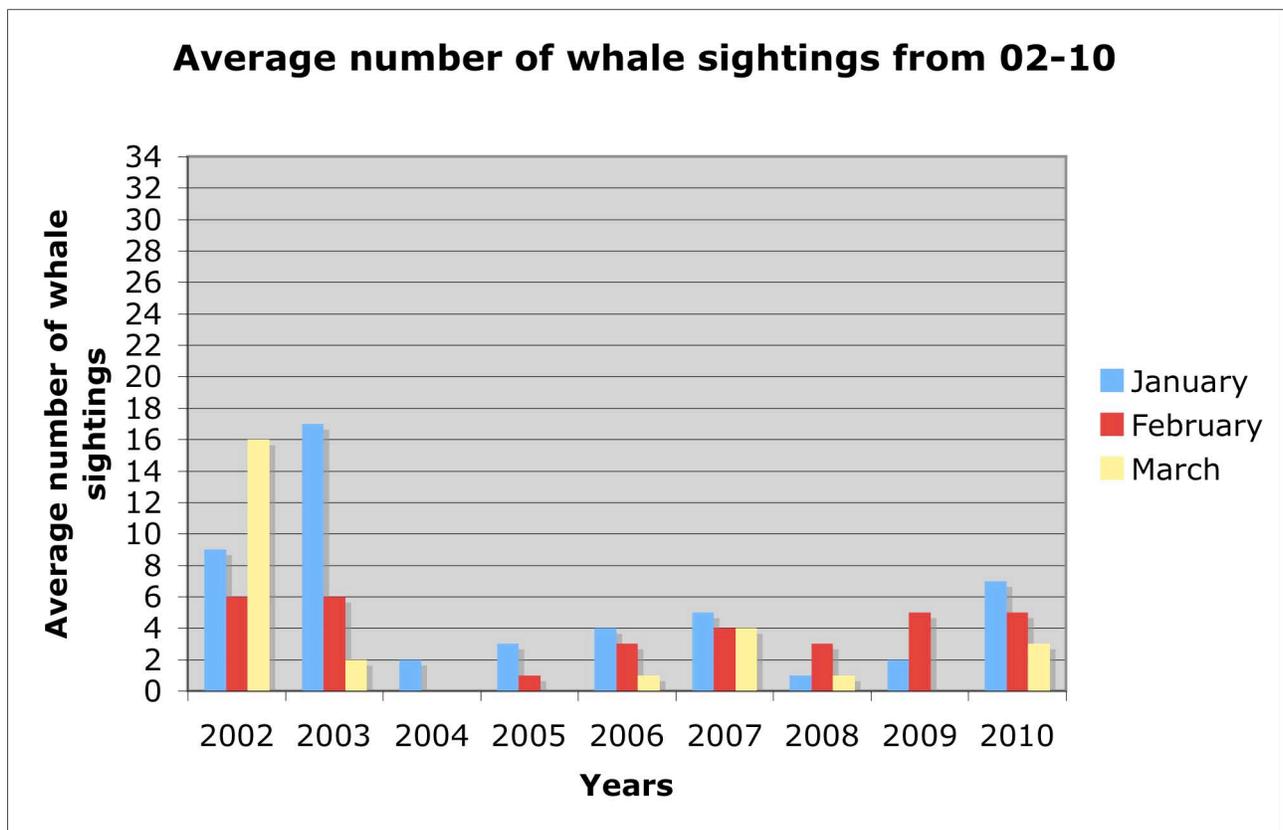
Island: Hawaii

Site# 2: Ke Lae Park

Elevation: 20 ft

Coastline: South Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	9	6	16
2003	17	6	2
2004	2	NA	0
2005	3	1	0
2006	4	3	1
2007	5	4	4
2008	1	3	1
2009	2	5	0
2010	7	5	3



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Ke Lae Park on the island of Hawaii.

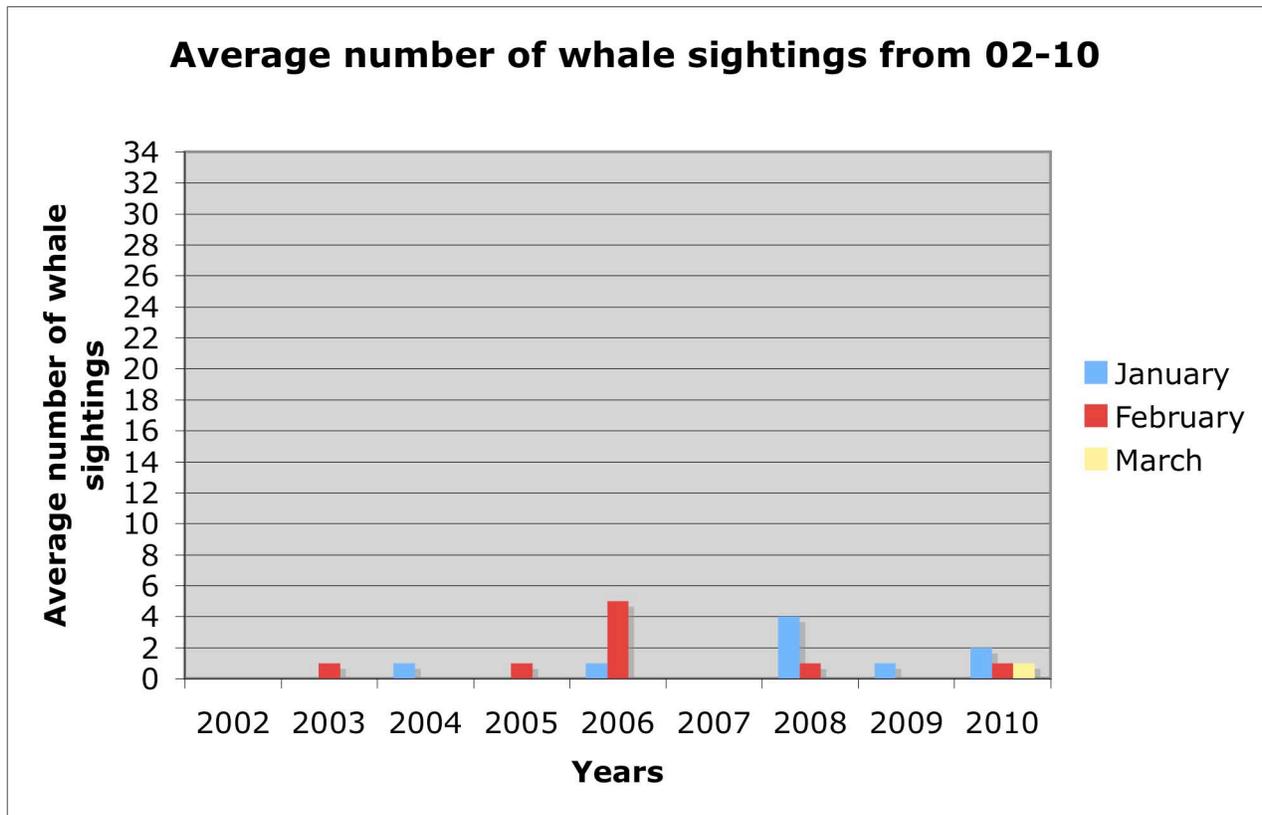
Island: Hawaii

Site# 3: Milolii Lookout

Elevation: 800 ft

Coastline: South Shore

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	NA	NA	NA
2003	0	1	0
2004	1	NA	0
2005	0	1	0
2006	1	5	0
2007	0	0	NA
2008	4	1	0
2009	1	0	0
2010	2	1	1



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Milolii Lookout on the island of Hawaii.

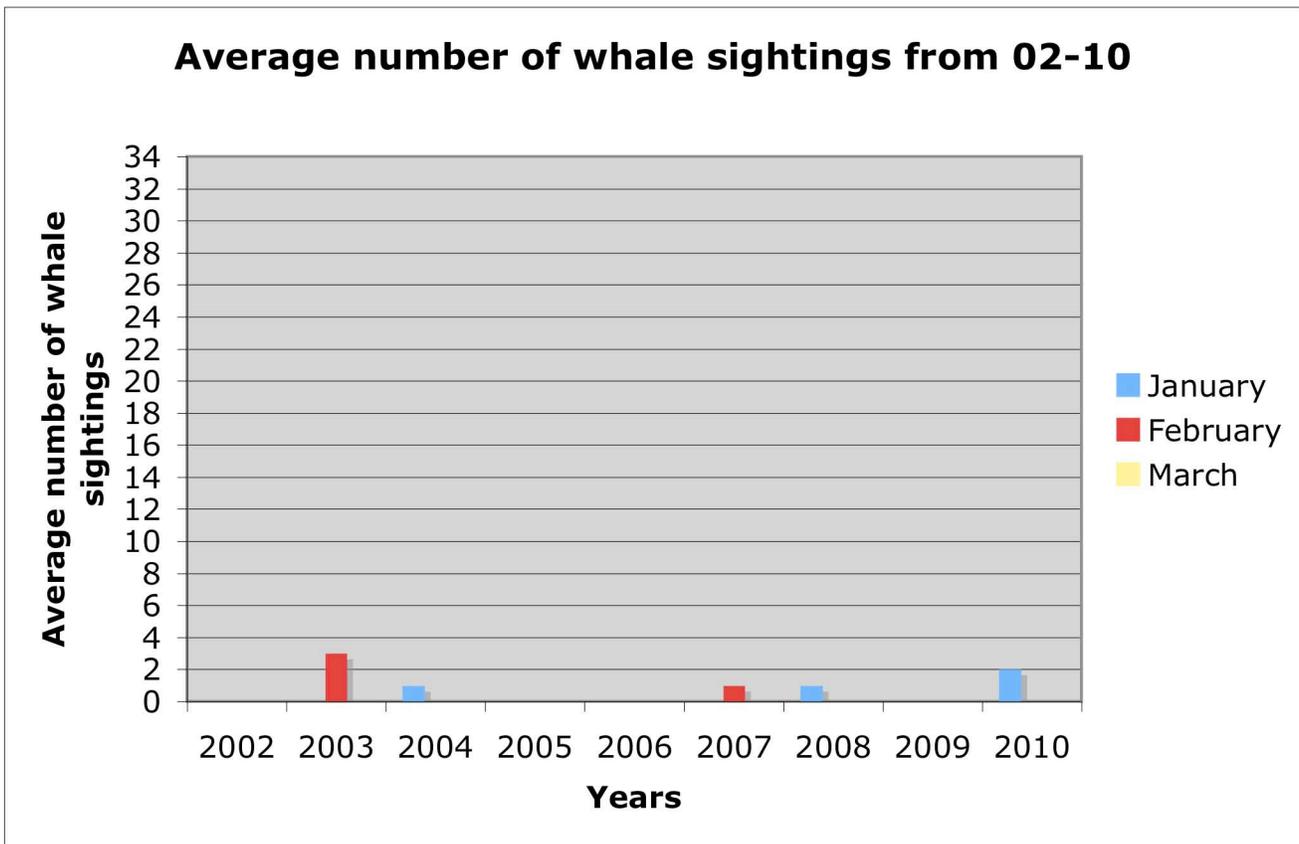
Island:Hawaii

Site# 4: Hookena Beach Park

Elevation: 20 ft

Coastline: Kona Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	0	0
2003	0	3	0
2004	1	0	0
2005	0	0	0
2006	0	0	0
2007	0	1	0
2008	1	0	0
2009	0	0	0
2010	2	0	0

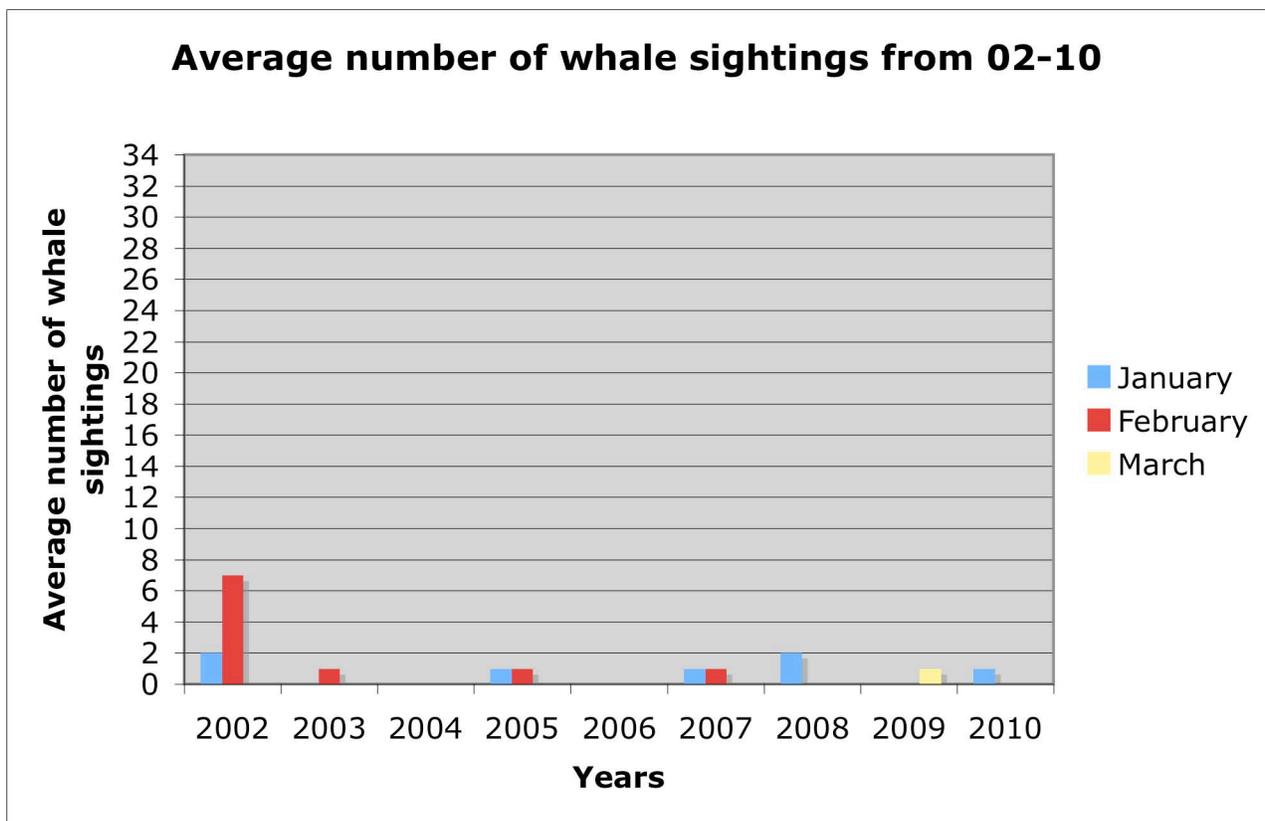


Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Hookena Beach Park on the island of Hawaii.

Island: Hawaii Site#5: Honaunau
 Elevation: 20-40 ft Coastline: Kona Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	2	7	0
2003	0	1	NA
2004	0	0	0
2005	1	1	0
2006	0	0	0
2007	1	1	0
2008	2	0	0
2009	0	0	1
2010	1	NA	0



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Honaunau on the island of Hawaii.

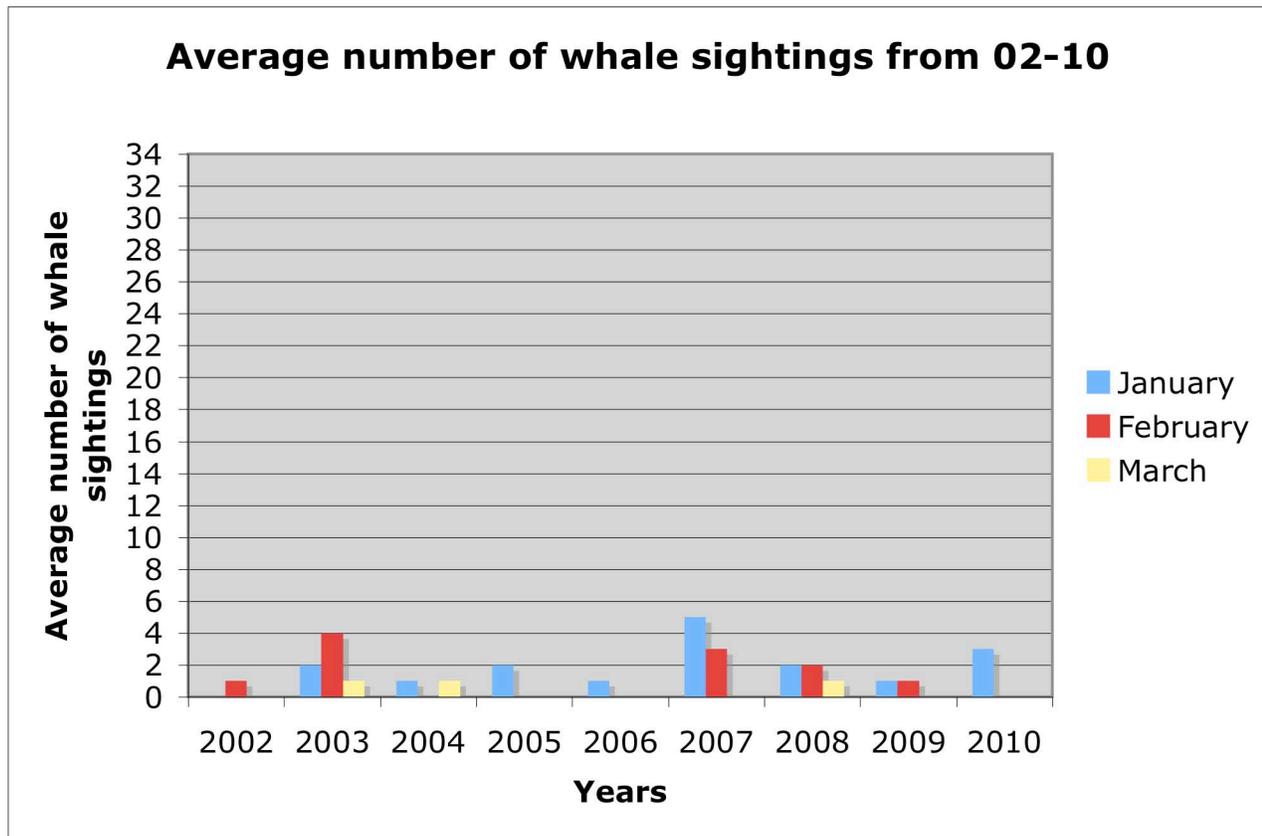
Island:Hawaii

Site# 6: Keauhou Scenic Lookout

Elevation: 450 ft

Coastline: Kona Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	0	1	0
2003	2	4	1
2004	1	NA	1
2005	2	0	0
2006	1	0	0
2007	5	3	0
2008	2	2	1
2009	1	1	0
2010	3	0	0



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Keauhou Scenic Lookout on the island of Hawaii.

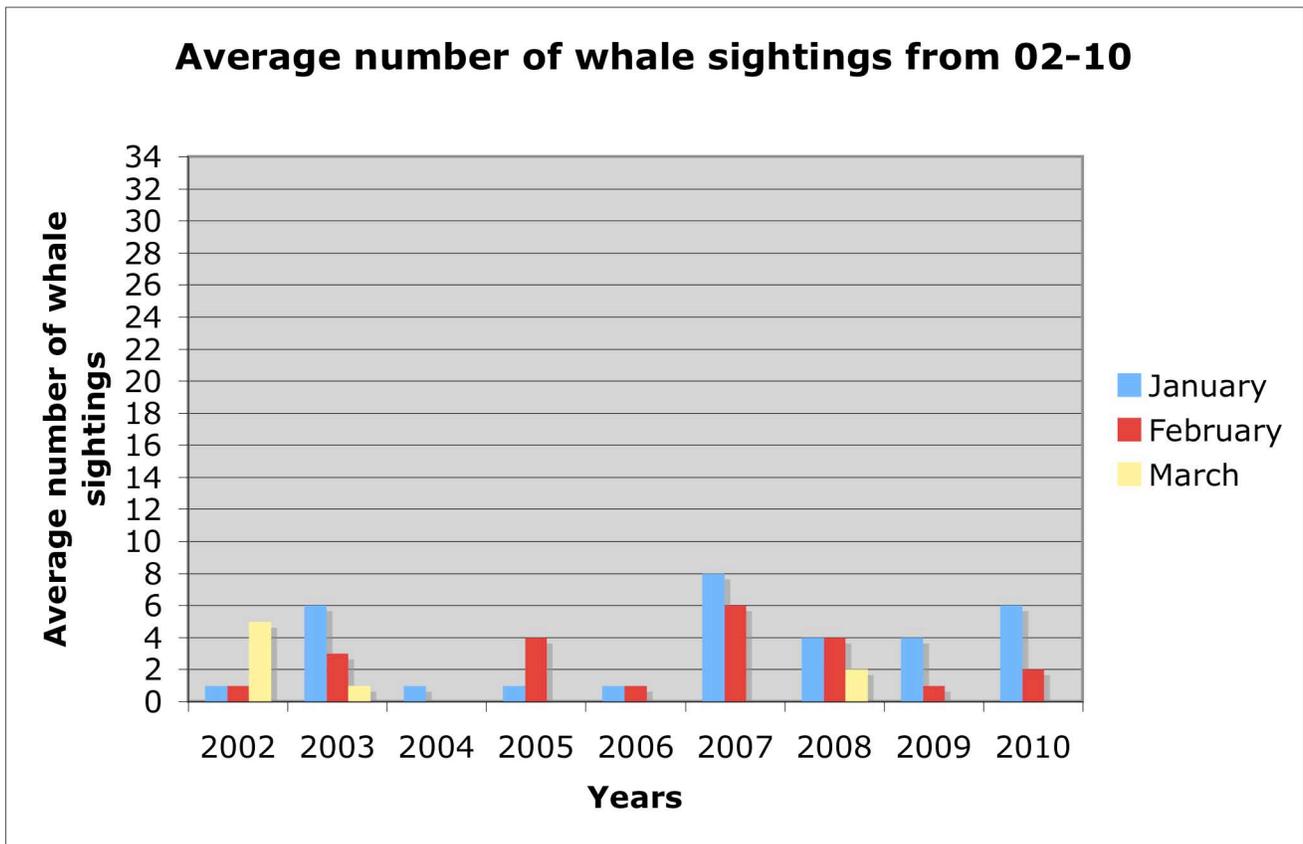
Island: Hawaii

Site#7: Keahole Point

Elevation: 20 ft

Coastline: Kona Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	1	1	5
2003	6	3	1
2004	1	NA	0
2005	1	4	0
2006	1	1	0
2007	8	6	0
2008	4	4	2
2009	4	1	0
2010	6	2	0



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Keahole Point on the island of Hawaii.

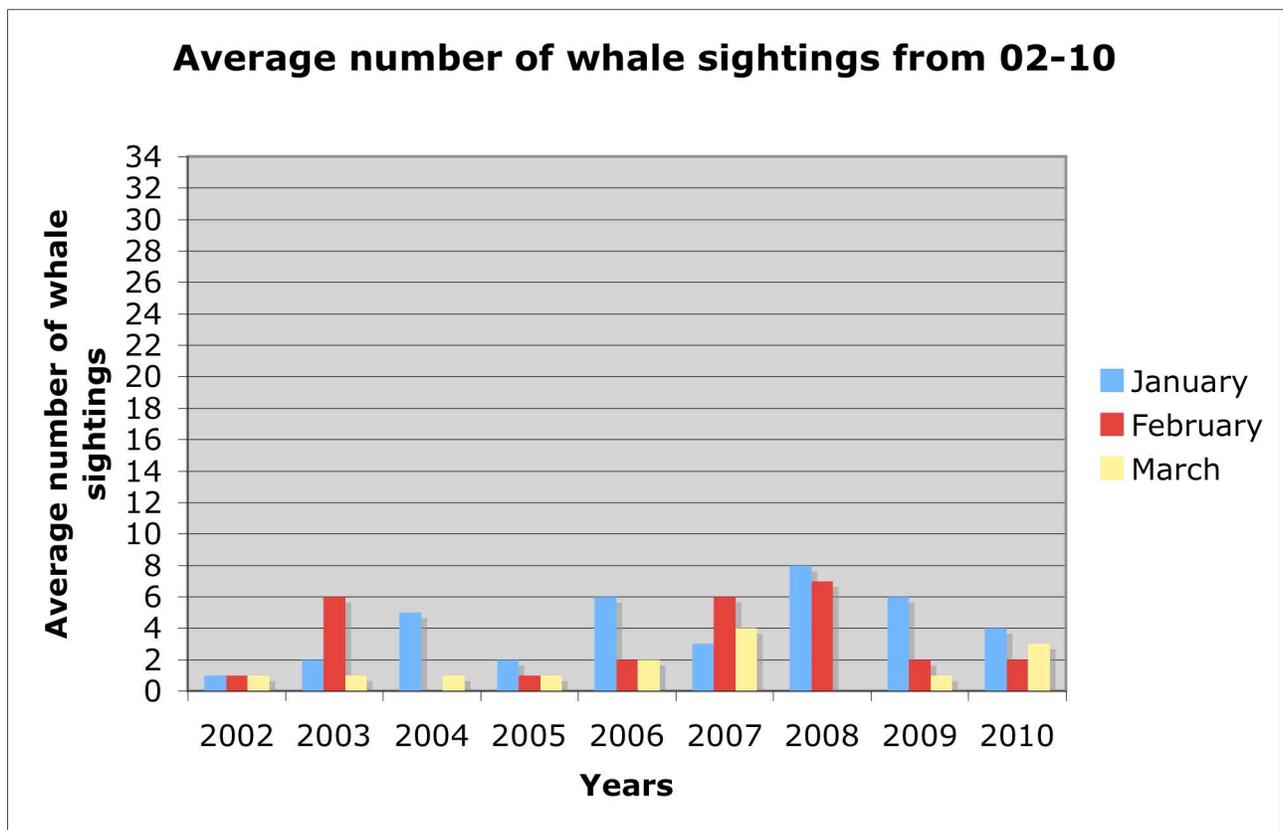
Island: Hawaii

Site# 8: Hualalai

Elevation: 10 ft

Coastline: Kona Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	1	1	1
2003	2	6	1
2004	5	0	1
2005	2	1	1
2006	6	2	2
2007	3	6	4
2008	8	7	0
2009	6	2	1
2010	4	2	3



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Hualalai on the island of Hawaii.

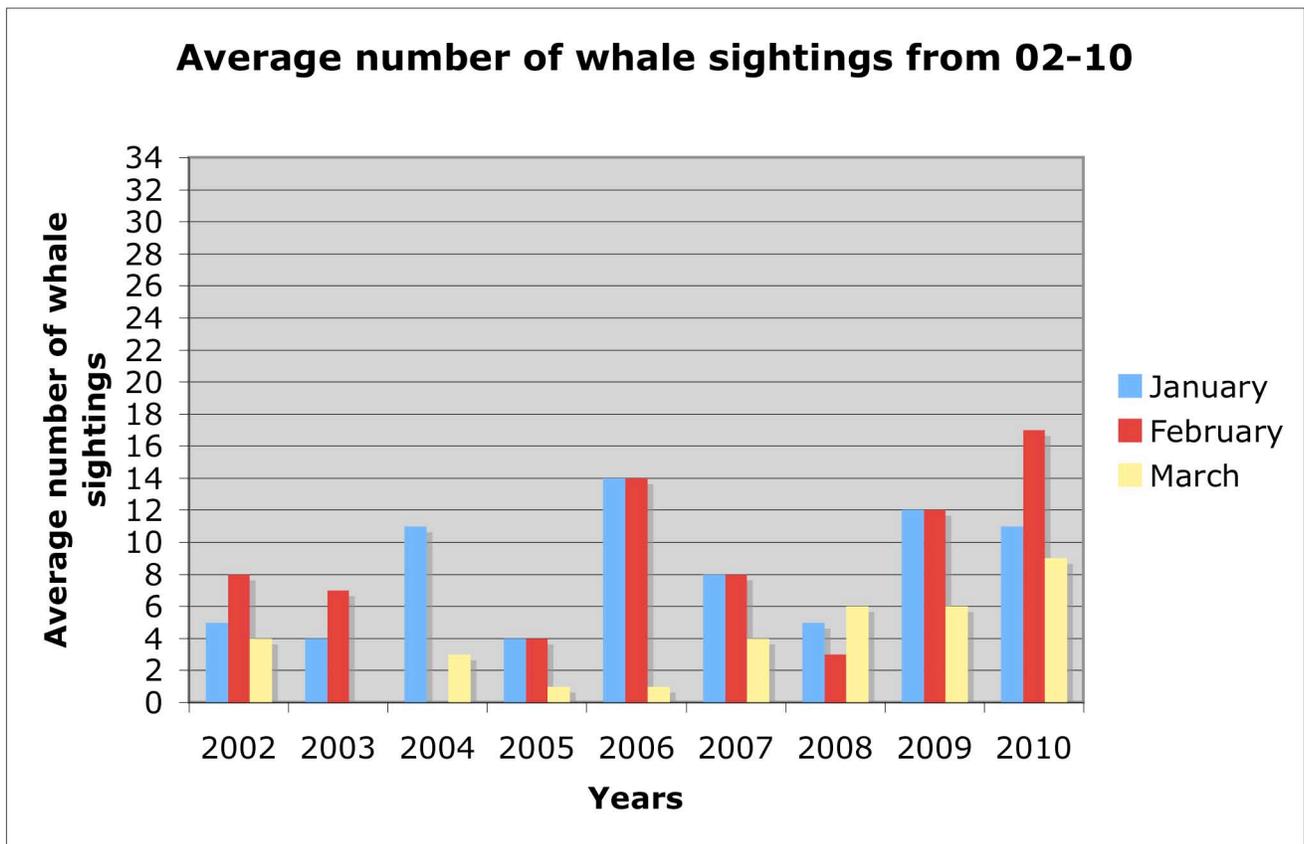
Island: Hawaii

Site# 9:Pu'ukohala Heiau

Elevation: 120 ft

Coastline: Kona Coast

Average number of whale sightings from 2002-2010			
Years	January	February	March
2002	5	8	4
2003	4	7	0
2004	11	NA	3
2005	4	4	1
2006	14	14	1
2007	8	8	4
2008	5	3	6
2009	12	12	6
2010	11	17	9



Analysis:

This graph depicts the average number of humpback whales sightings per 15-minute count period (0800-1215) in January, February and March over the years 2002-2010 observed from the shore-based site Pu'ukohala Heiau on the island of Hawaii.