

Greetings!

The 2007 CINC training manual has been edited for 2008. The changes made to the 2008 manual are listed in this document, and the pagination used refers to the pagination of the 2007 manual so that you can mark your old manual if desired.

CINC volunteer Scott Robertson spent a great deal of time proofing the 2006 manual and suggesting edits, and we are grateful to him for how that has enhanced this 2008 edition.

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### **Changes to Title Pages**

Replaced with updated training schedule for 2008.

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### **Changes to Chapter 1 — Program Overview**

- p. 6 – added “Reading training materials” to first list (activities that are recorded on timesheets).
  - p. 7 – under “**TIMESHEET ENTRY DESCRIPTIONS**” changed “Rachel G” to “Captain Don’s”
  - p. 7 – in the 2<sup>nd</sup> paragraph from the bottom, changed fax number from “382-9791” to “568-1582”
  - p. 9 – replaced with updated timesheet for 2008 training
  - p. 15 – deleted “*Rachel G*” from 2<sup>nd</sup> paragraph from bottom
  - p. 18 – information about *Rachel G* removed. Now only lists Captain Don’s information.
  - p. 23 – at end of paragraph under “Uniforms” added “No drinking of alcohol while in uniform.”
  - p. 33 – Under #13, changed “headquarters” to “main office.” For the final sentence (“Please see the CINC Staff Contacts & Reading List in your training manual for details.”) there will be a staff contact sheet hand-out at one of the 2008 training meetings.
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### **Changes to Chapter 2 — NMSP (white out NPS on tab)**

- p. 1 – changed final bullet to read: “Papahanaumokuakea Marine National Monument”
  - p. 2 – changed map to include Papahanaumokuakea Marine National Monument
  - p. 14 – under 2006, changed “as a National Monument” to “Papahanaumokuakea Marine National Monument”
- Deleted final 3 pages (not numbered) in the chapter on Papahanaumokuakea Marine National Monument and replaced with a one-page sheet of same.
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### **Changes to Chapter 3 — Ports, Harbors & Shipwrecks**

No substantial changes.

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### **Changes to Chapter 4 — Chumash**

- p. 3 – deleted “XXXX” after 1st paragraph of “Chumash Food Plants”
- p. 5 – deleted 2<sup>nd</sup> paragraph of “Introducing plants to the islands”
- p. 5 – added subtitle “Some Chumash Staples” above entry for “**Lemonade Berry**”
- p. 5 – after “**Comal**” deleted “(retrieve from V.C. display)”

- p. 6 – in 1<sup>st</sup> sentence of 4<sup>th</sup> paragraph under “Throw another Abalone on the Barbeque” changed “*Engraulididae sp.*” to “*Engraulis sp.*”
  - p. 13 – Under “**The Lone Woman of San Nicolas Island**” deleted “and illustration”
  - p. 14 – deleted last sentence in 5<sup>th</sup> paragraph - “For questions or comments....”
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### Changes to Chapter 5 — Geology & Paleontology

- p. 3 – deleted last sentence on the page - “(Diagram of the fault system of the islands)”
  - p. 4 – in middle of 1<sup>st</sup> paragraph, changed “Santarosae” to be one word
  - p. 4 – deleted last sentence on page - “(photo of San Miguel with sand sweeping over it)”
  - p. 11 – in 4<sup>th</sup> line from the bottom, capitalized E on *Elephas*
  - p. 13 – under “**San Nicolas**” deleted “**Screen #1**”
  - p. 13 – in 2<sup>nd</sup> paragraph under “**Natural History of Pygmy Mammoths**” deleted “the 20 contour depicts the coastline of Santarosae and the ancient coast of California during this time”
  - p. 15 – in 2<sup>nd</sup> line under “**Special Islands**” deleted “whose replica lies before you”
  - p. 16 – in middle of 2<sup>nd</sup> paragraph changed “the room you are in” to “a football field”
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### Changes to Chapter 6 — Oceanography & Bathymetry

*Substantial edits were made to this chapter by Scott Robertson, so while some of the changes are listed below, there were such significant changes that you might want to reread the whole chapter.*

- p. 1 – Regional Oceanography - Changed description of California Current to avoid impression that this current flows along the coast of Santa Barbara.  
Added text to image to clarify that the circulation is not always as shown.  
Additional images and text inserted to provide the current level of understanding of the variability of circulation in the Santa Barbara Channel.
- p. 2 – under “**Biogeographical Description**” 1st paragraph, added reference: “Dailey et al. 1993 *Ecology of the Southern California Bight*”
- p. 2 – under “**Upwelling**” changed sentences to clarify the description of the forces that create upwelling
- p. 2 – under “**El Niño**” the previous wording implied that the El Niño phenomenon is a result of what's happening to the California Current (rather than the consequence of something going on in the tropical Pacific.) Reworded to avoid that implication.
- p. 3 – changed wording in 2<sup>nd</sup> line from “need” to “prefer or require”  
Added reference to the impacts of El Niño storms.
- p. 4 – changed title “**Ocean Characteristics**” to “**Ocean Waves.**”  
The discussion of waves & swells is potentially confusing or misleading to one who is not already familiar with the terms. The definitions appear to be circular: for example: “Large smooth looking *waves* that appear to gradually roll along the sea surface are termed *swell*” vs “*Waves* are developed from *swells*.” (italics added) Scott thought that the section should be re-written and re-organized for clarity, and so that’s what he did.  
Added a generic discussion of “waves.” (Relocated some existing material.)  
Added discussion of “seas.”  
Modified discussion of “swells.”

Differentiated discussion of waves on the shore.

p. 4 – 2<sup>nd</sup> sentence under “**Swells**” – deleted the phrase "appear to gradually"

Added “**Sediment Transport**” heading to alert reader to change in topic. Moved these paragraphs to end of discussion on waves (from their previous position near the beginning of the discussion), because it seemed to be a more appropriate location.

Scott felt that the statement "Calm weather and small waves can create little change in the overall appearance of the beaches" is not true, so he reorganized the paragraph and added text to correct the statement.

p. 6 – in 3<sup>rd</sup> line from bottom deleted "River sampling sites are denoted with stars on Figure B"  
Added page at end depicting bathymetry map of the channel.

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### Changes to Chapter 7 — Marine Mammals

p. 2 – under “Suborder Odontocete” changed "Family Phseteridae" to "Family Physeteridae"

p. 3 – in 4<sup>th</sup> line from bottom of 1<sup>st</sup> “paragraph” changed “38 species” to “39 species” (see p. 23-24 below)

p. 6 – at end of first paragraph added “(See ‘Renal Functions’ below)” – placed after "Large intestines are effective in water conservation; cetaceans accomplish this through other means.”

p. 10 – 3<sup>rd</sup> line from bottom – changed "*kwakwe axtLi*" to all lower case "*kwakwe axtli*"

p. 11- in middle of 3<sup>rd</sup> paragraph changed “are 6-7m” to “23-26 feet” and “380 liters” to “130 gallons”

p. 13 – in 1<sup>st</sup> line changed 700-900kg” to 500-680 kg” and changed “13-22 liters/day” to “45-50 gallons/day”

p. 20 – in 2<sup>nd</sup> entry under “**References**” changed “Michael Carwardine” to “Mark Carwardine”

p. 23-24 – deleted marine mammal chart and replaced with new one from Chuck Rennie

p. 26 – under entry for “**CALF**” changed “new born of young” to “new born or young”

p. 27 – under entry for “**SPOUT**” changed “steam” to read “ ‘steam’ (a cloud of condensed water vapor)”

After p. 27, added a “Porpoises vs Dolphins” chart, created by Scott Robertson to help clarify the morphological differences between these two groups

At end of chapter, added Peter Howorth’s 6-page marine mammal identification keys

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### Changes to Chapter 8 — Baleen Whales

p. 1 – in 2<sup>nd</sup> line under “**Migration, Feeding and Breeding**” changed “age, sex and class” to age and sex”

p.4 – under “**Brief Description**” changed “Migration” to read: “Spends summers in high-latitude...and winter in low-latitude...”

p. 5 – in 2<sup>nd</sup> to last paragraph changed “10-11 months” to “11-11.5 months”

p. 5 – in last paragraph changed “597 individuals” to “1,158 individuals (Calambokidis et al. 2004)”

p. 6 – in 1<sup>st</sup> bullet changed “25-26 meters (about 82-85 feet)” to “80-100 feet”

p. 7 – at end of 2<sup>nd</sup> paragraph changed “(latest estimate: 2,134 near California in 1995)” to “(latest estimate by NMFS of the eastern north Pacific population is 1,700)”

p. 7 – in last bullet changed “20-24 feet” to “23-26 feet”

- p. 8 – in 1<sup>st</sup> bullet changed “100” to “approximately 130” [editor’s note: there is a typo in the printed 2008 manual—there should not be a hyphen in front of 130]
  - p. 9 – in 2<sup>nd</sup> to last bullet changed “left” to “left lip dark”
  - p. 11 – in 8<sup>th</sup> line under “**GRAY WHALE**” changed “1,102 lbs” to “1,100-1,500 lbs” and changed “500 kg” to “500-680 kg”
  - p. 12 – in 2<sup>nd</sup> line under “**HUMPBACK**” changed “10-11 months” to “11-1.5 months”
  - p. 13 – for 2<sup>nd</sup> entry changed “Northern right whale (*Eubalaena glacialis*)” to “North Pacific Right Whale (*Eubalaena japonica*)”
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### **Changes to Chapter 9 — Toothed Whales**

- p. 6 – deleted 1<sup>st</sup> sentence; at end of page, added “Marine mammals are the preferred food of transients; fish are the preferred food of residents”
  - p. 8 – deleted sperm whale page and added new page on Pacific white-sided dolphin
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### **Changes to Chapter 10 — Pinnipeds**

- p. 8-9 – deleted and replaced with single page version. Please note some updates on populations (from Scott Robertson)
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### **Changes in Chapter 11. Marine Mammal Regulations**

- p. 9 – under “**Ventura County**” changed contact information to: “(805) 567-1505 / Channel Islands Marine & Wildlife Institute”
  - p. 13 – replaced map with new version
  - p. 14-18 – replaced with updated gps coordinates of MPAs
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### **Changes to Chapter 12. Marine Birds**

- p. 3 – on top of page changed “Pelicanidae” to “Pelecanidae”
  - p. 3 – in 1<sup>st</sup> line under “**Cormorants**” changed “Brant's” to “Brandt's,” as well as in title of 2<sup>nd</sup> paragraph from bottom
  - p. 6 – (fyi) in 9<sup>th</sup> entry from bottom, “Brant” refers to “Brant goose”
  - p. 9 – at end of 2<sup>nd</sup> paragraph under “Xantus’s Murrelets” changed “(or introduced rats, in the case of Anacapa Island)” to “(or introduced rats, in the case of Anacapa Island, where the non-native black rat was removed in 2002)”
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### **Changes to Chapter 13 CINP**

- p. 1 – replaced the 2<sup>nd</sup> and 3<sup>rd</sup> paragraphs
- p. 1 – in 4<sup>th</sup> paragraph changed “CHIS” to “Channel Islands”
- p. 1 – in 5<sup>th</sup> paragraph changed “permitting Park Service management of the island and allowing a limited...” to “permitting the National Park Service to allow a limited...”
- p. 21 – added title “Greening the Park” and replaced last sentence of 2<sup>nd</sup>-to-last paragraph with “In addition, emissions were lowered even further when the vessel was converted to run on biodiesel fuel”

- p. 23-33 – Divided entire section entitled “Resource Management” into two parts, the 1<sup>st</sup> being “Natural Resource Management” (p. 23-30) and the 2<sup>nd</sup> being “Cultural Resource Management” (p. 31-33).
  - p. 26 – in last sentence changed “is planned for fall, 2002” to “was done in Fall, 2002.”
  - p. 27 – replaced last five lines with “Feral pigs were eradicated from Santa Cruz Island by 2006. Since island vegetation responded rapidly to the complete removal of feral sheep, completed by the NPS in 1999, it is hoped that there will be even further recovery now that the non-native pigs are gone”
  - p. 28 – the following note was added at the end of this article: “[Since this article was written, a network of Marine Protected Areas has been put in place at the Channel Islands, which protect ecosystems such as the kelp forest.]”
  - p. 31 – in 2<sup>nd</sup> sentence of 2<sup>nd</sup> paragraph changed “Arlington Woman” to “Arlington Man”
  - p. 31 – in 2<sup>nd</sup> paragraph from bottom deleted 2<sup>nd</sup> sentence (“Many of these images...”) and deleted 2<sup>nd</sup>-to-last sentence (“Under the direct-tographs...”)
  - p. 31 – in 1<sup>st</sup> paragraph under “**Archeology**,” “and include” was inserted into the 2<sup>nd</sup> sentence after “...artifacts” and in last sentence “are” was inserted after “rock walls”
  - p. 33 – in 1<sup>st</sup> sentence of 2<sup>nd</sup> paragraph changed “woman” to “man”
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#### **Changes to Chapter 14. Research / Data Sheets**

- p. 1-11 – replaced with “2006 Research Summary”
  - p. 12 – under “Vessels” deleted “Cisco’s” and kept “CIS;” changed “Rachel G” to “Captain Don’s”
  - p. 14 – deleted “Vessel” from title and in 1<sup>st</sup> line changed “(vessel is already entered)” to “and year”
  - p. 14 – in 2<sup>nd</sup>-to-last paragraph changed “Using the chart below...” to “Using the codes on bottom of report, enter the code number...”
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#### **Changes to Chapter 15. Refs & Interpretation**

- p. 11 – in 4<sup>th</sup> indent under “1. Unique park resources” replaced sentence beginning with “Eolian land...” with “Eolian (wind-caused) land forms and caliche (‘hard pan,’ impervious layer of calcium carbonate [lime] beneath the soil surface) are found on the Channel Islands.”
- p. 13 – deleted title “**Revised Draft 31 May 2001**”
- p. 19 – added subtitle “Compiled by Dr. Charles Rennie, III”
- p. 19 – under 2<sup>nd</sup> entry (“Carwardine”) changed “Michael” to “Mark”
- p. 20 – above 2<sup>nd</sup> entry from bottom (“Dailey”) added “Editors’ additions:”