

# Monitoring Logistics and Protocols



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Jenner Afternoon Workshop  
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# HANDOUTS

- NON-BREEDING SEABIRD SURVEY FORM
- LEGEND CODES and ABBREVIATIONS
- SEABIRD VOLUNTEER LOG SHEET

# SCHEDULING

## NON-BREEDING SURVEY

**SEASON** September 1 – March 31

**FREQUENCY** To be Determined

**SAME DAY OF WEEK** To be Determined

**START TIME** One Hour after Sunrise

**WHERE** To be Determined

# AMBIENT VARIABLES

Colony

Goat Rock

Point  
#

2

Date

yyyy mm dd

2013\_01\_17

Data  
Recorder

Martin Chuzzlewit

NON-BREEDING SEABIRD SURVEY FORM

# AMBIENT VARIABLES

Other  
Observer(s)

Flora Finching, Edmund Sparkler

Start  
Time

0710

End  
Time

0810

Cloud  
%

15

# AMBIENT VARIABLES

Precip Code	1
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Wind Class	2
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Temp °C	13
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# BEAUFORT WIND SPEED CLASSES

Force	Wind mph	Class	On Water	On Land
0	< 1	Calm	Sea surface smooth, mirror-like	Calm, smoke rises vertically
1	1-4	Light Air	Scaly ripples, no foam crests	Smoke drift indicates wind direction, still wind vanes
2	5-7	Light Breeze	Small wavelets, crests glassy, no breaking	Wind felt on face, leaves rustle, vanes begin to move
3	8-11	Gentle Breeze	Large wavelets, crests begin to break, scattered whitecaps	Leaves and small twigs constantly moving, light flags extended
4	12-18	Moderate Breeze	Small waves 1-4 ft. becoming longer, numerous whitecaps	Dust, leaves, and loose paper lifted, small tree branches move
5	19-24	Fresh Breeze	Moderate waves 4-8 ft taking longer form, many whitecaps, some spray	Small trees in leaf begin to sway
6	25-31	Strong Breeze	Larger waves 8-13 ft, whitecaps common, more spray	Larger tree branches moving, whistling in wires



**BEAUFORT FORCE 0**

*WIND SPEED: LESS THAN 1 KNOT*

*SEA: SEA LIKE A MIRROR*





**BEAUFORT FORCE 1**  
*WIND SPEED: 1-3 KNOTS*

SEA: WAVE HEIGHT .1M (.25FT), RIPPLES WITH THE APPEARANCE OF SCALES, BUT WITHOUT FOAM CRESTS



**BEAUFORT FORCE 2**  
*WIND SPEED: 4-6 KNOTS*

SEA: WAVE HEIGHT .2-.3M (.5-1FT), SMALL WAVELETS,  
CRESTS HAVE A GLASSY APPEARANCE AND DO NOT BREAK



**BEAUFORT FORCE 3**

*WIND SPEED: 7-10 KNOTS*

SEA: WAVE HEIGHT .6-1M (2-3FT), LARGE WAVELETS,  
CRESTS BEGIN TO BREAK, ANY FOAM HAS GLASSY  
APPEARANCE, SCATTERED WHITECAPS





**BEAUFORT FORCE 4**

*WIND SPEED: 11-16 KNOTS*

SEA: WAVE HEIGHT 1-1.5M (3.5-5FT), SMALL WAVES  
BECOMING LONGER, FAIRLY FREQUENT WHITE HORSES



**BEAUFORT FORCE 5**

*WIND SPEED: 17-21 KNOTS*

SEA: WAVE HEIGHT 2-2.5M (6-8FT), MODERATE WAVES  
TAKING MORE PRONOUNCED LONG FORM, MANY WHITE  
HORSES, CHANCE OF SOME SPRAY



**BEAUFORT FORCE 6**  
*WIND SPEED: 22-27 KNOTS*

SEA: WAVE HEIGHT 3-4M (9.5-13 FT),  
LARGER WAVES BEGIN TO FORM, SPRAY IS PRESENT,  
WHITE FOAM CRESTS ARE EVERYWHERE

# POP QUIZ

What species is this seabird?

How do you know?







# DATA COLLECTION

- Use a #2 pencil
- Print instead of using cursive writing
- Be neat (under the circumstances)
- Do not erase – just cross out mistakes
- Make notes
- Don't recopy the form

# VALUE OF VOLUNTEERS

Your time is valuable.

You provide a financial “match” for  
Stewards grant proposals.

# SAFETY

**Your safety is the most important consideration.**

**Situational Awareness**

# SAFETY

Be familiar with coastal hazards

## Know your ground!

Gravelly soils

Wet, slick soils

Unstable, sedimentary soils

Steep slopes

Stay away from cliff or bluff edges!

# SAFETY

## Just in Case

Always carry a fully-charged cell phone and a SPOT satellite messenger



# SAFETY

## Be Social!

Collect data with another person

## Follow the Schedule!

Make sure that Stewards knows where and when you are monitoring

# SAFETY

**No Monitoring!**

during

Heavy Rain

Dense Fog

High Wind

# SAFETY

Keep Learning!

Wilderness safety class  
Red Cross first-aid training



# EQUIPMENT

- Field sheets
- Sheet of codes
- Tide log
- Seabird ID sheets
- Pencils
- Clipboard
- Thermometer
- Compass
- Clothing for all conditions
- Spotting scope
- Binoculars
- Water and snacks

# OTHER EQUIPMENT

- Cell telephone
- SPOT satellite
- First-aid supplies
- GPS unit
- Camera
- Flashlight

A Word about  
**DATA MANAGEMENT**

# QUALITY ASSURANCE

**The maintenance of a  
desired level of quality  
in a service or product.**



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