# Monitoring Logistics and Protocols



Jim Weigand Jenner Afternoon Workshop January 17, 2013

### **HANDOUTS**

NON-BREEDING SEABIRD SURVEY FORM

LEGEND CODES and ABBREVIATIONS

SEABIRD VOLUNTEER LOG SHEET

## SCHEDULING NON-BREEDING SURVEY

**SEASON** September 1 – March 31

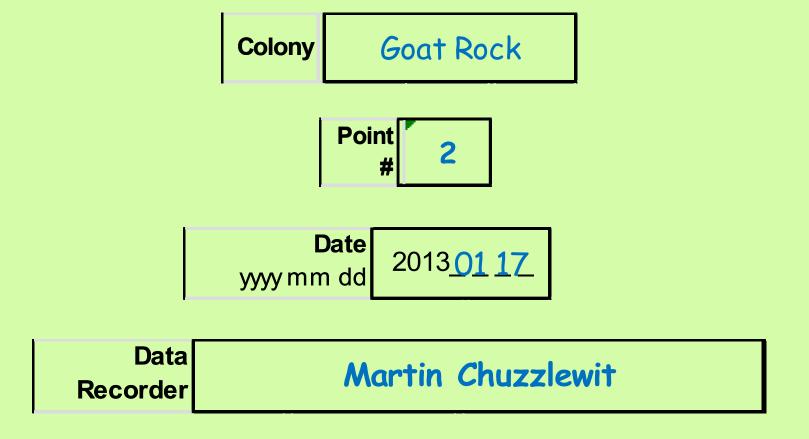
**FREQUENCY** To be Determined

**SAME DAY OF WEEK** To be Determined

**START TIME** One Hour after Sunrise

WHERE To be Determined

### **AMBIENT VARIABLES**



#### NON-BREEDING SEABIRD SURVEY FORM

### **AMBIENT VARIABLES**



Flora Finching, Edmund Sparkler



### **AMBIENT VARIABLES**



## 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



## 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



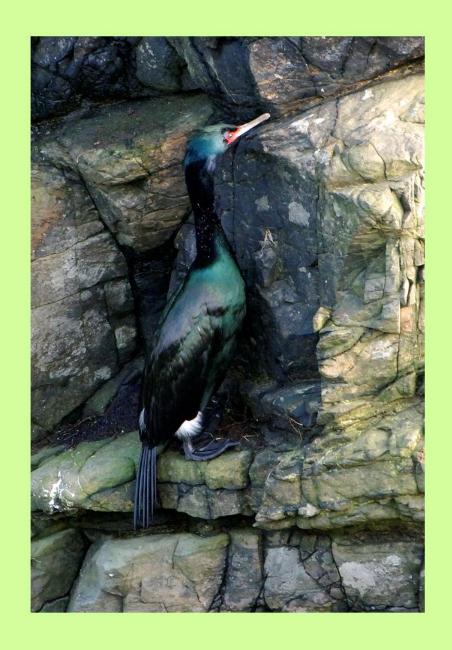
BEAUFORT FORCE 6
WIND SPEED: 22-27 KNOTS

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.

# Your safety is the most important consideration.

**Situational Awareness** 

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!

### **Just in Case**

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



**Be Social!** 

Collect data with another person

Follow the Schedule!

Make sure that Stewards knows where and when you are monitoring

No Monitoring!

during

Heavy Rain

Dense Fog

High Wind

### **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.

