

# HAWAII ENCOUNTER, TAGGING AND BIOPSY SHEET

RECORD ITEMS IN BOLD IMMEDIATELY

*Record items in italics at end of encounter*

Date:      /      /           **Start**           Species           **Sight.**           **Cue**           Effort      /      /       
DD      MMM      YYYY      (24 h clock)      #      see below      (circle)

**Wpt # when first seen or estimate**           **Wpt #**           **Obs.**           **Obs. Pos.**           Recorder           Start Behav.           Start DOT       
(circle, note if with BINOS)      (@group)      (Upper/Lower, P/S/F/B)      initials

**Group Size:**      /      /           # sub-groups           **Group Envelope**           % group obs.           # bow-riding       
MIN      BEST      MAX      (if >1 details in Notes)      (e.g., 100 x 400 m)      (close enough to observe neonates etc)

**End Time**           **End Wpt#**           **End Behav.**           **End DOT**           # w/CC wounds           # wounds/individual           % w/CC wounds           # vessels w/group       
(types in Notes)

**Reason for Leaving**           CPA           Neonates           YOY:           # Adult ♂s           # photo-grammetry           Prey/fecal Samples       
(see below)      (# or unk.)      (# or unk.)      #      grammetry      (type/# - details on effort log)

**Sight# other research boat**           **Other cetaceans present/Sight#:**           **Mixed group**           #/type sharks           #/type birds           #/type fish       
(# or NA)      (use separate data sheet if other species)      Yes/No/NA      (incl. Remoras)

**Photographer initials**           **Video or Camera**           **Start - end frames**           **sub-group and end blanks**           **GoPro**      /      /           **yes / no (circle)**      **type/position (list)**       
(start at left)

     /      /      /       
     /      /      /       
     /      /      /       
     /      /      /       
     /      /      /     

Note camera used for PhotoGrammetry (PG)           Total # photos     

**PERMIT INFO:**

**Primary Permit**           # reacting           avoidance           # approach < 1           **Notes:**       
(SWFSC/RWB)      overall approach      distance (m)      body length

**AT END OF DAY**

# biopsy attempts           # hits           # samples           # target reacting misses           # non-target reacting           # suction attempts           # suction tagged           # dart attempts           # dart tagged     

# taken incidental           Boat           Sea Cond.           Start Lat/Long           End Lat/Long     

Distance to shore      km      Closest Landmark           Closest Island           Start depth      m      Distance from 1<sup>st</sup> seen      m      Est. or GPS      m  
(from GPS)      (bearing & name, from GPS)      (from GPS)      (circle Est or GPS, note if BINOS)

**Cue** = SBF= Splash/Blow/Fin; FV=Fishing Vessel; AD=Acoustic Detection; **Birds; Radio call; Radio Tag; ORV**=Other Research Vessel. Obs.=Observers. **Behavior** e.g., travel, fast travel, mill, social, feeding, rest. DOT =direction of travel. YOY = young of year. **Reason for Leaving:** 1. Group Lost; 2. Group Not Approachable; 3. Continuing Search, some samples/IDs; 4. All IDd; 5. Low priority; 6. Higher priority species seen; 7. Weather/time of day; 8. Other (include in notes). Cross out or write NA in all spaces not used. For "Notes" record group size changes; **audio recording duration & CPA**; predation events; other samples collected; **types of vessels (rec. fishing, charter fishing, dolphin-watching)**; maximum speed (from GPS) if fast travel; description of un-identified species; if >1 **sub-group record distance between, min/best/max for each, # adult ♂s/neonates/YOY for each, & sub-group blanks for each** (e.g., "Sub-A, 416, Sub-B, 602"); for Kogia slow rolling v. logging, direction pointing v. traveling, dive durations. For beaked whales, ~# breaths/dive durations, time waited.

# BIOPSY AND TAGGING INFORMATION

DD    MMM    year

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Boat: \_\_\_\_\_ Recorder: \_\_\_\_\_ Sighting #: \_\_\_\_\_ Page: \_\_\_\_\_ of \_\_\_\_\_

Attempt #: \_\_\_\_\_ Tagger /biopsier: \_\_\_\_\_ Device: rifle / crossbow / pole hit / miss sample/tag: yes / no  
(circle) (circle) (circle) (circle)

Sample /Tag #: \_\_\_\_\_ Time: \_\_\_\_\_ Target sex/age: \_\_\_\_\_ Wpt #: \_\_\_\_\_

**Behavior**

Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Before/Response/After: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
(only if sample/tag successful)

# other Area/ Cameras/  
reacting/present: \_\_\_\_\_ / \_\_\_\_\_ side hit: \_\_\_\_\_ frames: \_\_\_\_\_

Comments: \_\_\_\_\_

Attempt #: \_\_\_\_\_ Tagger /biopsier: \_\_\_\_\_ Device: rifle / crossbow / pole hit / miss sample/tag: yes / no  
(circle) (circle) (circle) (circle)

Sample /Tag #: \_\_\_\_\_ Time: \_\_\_\_\_ Target sex/age: \_\_\_\_\_ Wpt #: \_\_\_\_\_

**Behavior**

Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Before/Response/After: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
(only if sample/tag successful)

# other Area/ Cameras/  
reacting/present: \_\_\_\_\_ / \_\_\_\_\_ side hit: \_\_\_\_\_ frames: \_\_\_\_\_

Comments: \_\_\_\_\_

Attempt #: \_\_\_\_\_ Tagger /biopsier: \_\_\_\_\_ Device: rifle / crossbow / pole hit / miss sample/tag: yes / no  
(circle) (circle) (circle) (circle)

Sample /Tag #: \_\_\_\_\_ Time: \_\_\_\_\_ Target sex/age: \_\_\_\_\_ Wpt #: \_\_\_\_\_

**Behavior**

Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Before/Response/After: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
(only if sample/tag successful)

# other Area/ Cameras/  
reacting/present: \_\_\_\_\_ / \_\_\_\_\_ side hit: \_\_\_\_\_ frames: \_\_\_\_\_

Comments: \_\_\_\_\_

Attempt #: \_\_\_\_\_ Tagger /biopsier: \_\_\_\_\_ Device: rifle / crossbow / pole hit / miss sample/tag: yes / no  
(circle) (circle) (circle) (circle)

Sample /Tag #: \_\_\_\_\_ Time: \_\_\_\_\_ Target sex/age: \_\_\_\_\_ Wpt #: \_\_\_\_\_

**Behavior**

Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Before/Response/After: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
(only if sample/tag successful)

# other Area/ Cameras/  
reacting/present: \_\_\_\_\_ / \_\_\_\_\_ side hit: \_\_\_\_\_ frames: \_\_\_\_\_

Comments: \_\_\_\_\_

**USE BIOPSY/TAGGING SHEET FOR ADDITIONAL ATTEMPTS (number pages consecutively, e.g., next page is 3 of \_\_\_\_).** Attempt # consecutive throughout day. **Sample or Tag #/type** consecutive sample # for entire day (sample # code = RWBYYYYMMDD.## e.g., RWB2015DEC10.04). **Response** e.g., flinch, fast dive, tail slap. For tagging, note tag frequency & type (Mk9, SPOT5, Mk10A). For successful tagging, note **CPA after tagging (and time of CPA and reaction)**, for suction-cup tags note duration of tag attachment, recovery time & location, if skin collected from cup or water, etc. Cross out spaces not used at end of encounter. If sampled or tagged individual **not distinctive** note Camera/frame # of close companions as well.