SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL-2/3

REVISED DEC. 2009

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF

LONGLINE SET SPECIFICATIONS

No. OF HOOKS PER BASKET		LINE SETTING SPEED - m/s kts (circle one)		VESSEL SPEED FOR SETTING (kts)	
TOTAL No. OF BASKETS		BRANCHLINE SET INTERVAL (s)		**SHARK LINES on floats (Hook No.99s)**	
TOTAL No. OF HOOKS		BETWEEN BRANCHLINES (m)		Number.:	LENGTH (m):
LENGTH OF FLOATLINE (m)		LENGTH OF BRANCHLINES (m)		WERE TDRs DEPLOYED ?	Y / N

TARGET SPECIES ('X' to indicate)	
TUNA	
SWORDFISH	
SHARK	

ALL MUST BE RECORDED

START OF SET	DD	MM	YY	hh	mm
SHIP'S DATE AND TIM					
UTC DATE AND TIME					

SET LOG

SHIP'S TIME	LATITUDE (ddº mm.mmm')	N S	LONGITUDE (dddº mm.mmm')	E W
START SET				
Were all "Start" and "End" positions observed directly? Y / N	If "N" explain in comments			
END SET				

MITIGATION (*were any of the following used for this set ?*)	
TORI POLES	Y / N
BIRD CURTAIN	Y / N
WEIGHTED LINES	Y / N
UNDERWATER SETTING CHUTE	Y / N

BAIT USED (total weight for EACH species)					
SPECIES					
(KG)					No. of LIGHT STICKS
HOOK NOs					
BAIT DYED BLUE	Y / N	Y / N	Y / N	Y / N	

HAUL LOG

START HAUL				
END HAUL				

COMMENTS - *use for comments from both setting and hauling. Use lower portion for personal workings if necessary.*

Ship's time	

UNUSUAL SET DETAILS

TOTAL BASKETS OBSERVED DURING HAUL (add up the total baskets monitored from the bottom of each Form LL-4 used in this set)		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY ?	circle one YES NO
			reported in Journal pg #

SET and HAUL INFORMATION

Use as many Form LL-2/3s per set and haul as necessary (usually one). N.B. (***VERY IMPORTANT***) - if there is a species target change part way through setting (e.g. completely different branchlines or very different setting depths are used) even if still using the same mainline, then start a new Form LL-2/3 for the different section of the set. (For clear + major changes only !) **This will be a new set with new *Start of Set Time* and *Set #*.** Be careful, **during haul**, to change to the second Form LL-2/3 and start a new Form LL-4 for the different set, at the correct place.

Observer Name and *Vessel Name*: Always print each of these names out in full (e.g. an observer name "John Masa", and a vessel name "Hai Hsiang No. 959")

Observer Trip ID Number: Number issued by the authority you are working for. (e.g. John H. Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

Set No.: (for observer use only) - start at "Set No. 1", "Set No. 2", etc., all through a trip.

Page of: Number Form LL-2's through trip as Page 1, Page 2, Page 3, etc. At end of trip, check all pages are there (again). Put the last page number on every page (e.g. if 36 pages then the first page will be "Page 1 of 36", the fourth page, "Page 4 of 36" and the last page will be "Page 36 of 36").

No. of hooks per basket: See the basket diagram in bottom right for example

Total No. of Baskets, *Total No. of Hooks*: These are the totals for the entire set.

<Total No. of Hooks> = <Total No. of Baskets> × <No. of Hooks per Basket>

Length of Floatlines (m), *Length of Branchlines (m)*: See diagram opposite

Vessel Speed (kts): Watch the GPS or speed log over several seconds to estimate average speed of vessel. Record to one decimal point (e.g. "9.7 " knots).

Line Setting Speed - m/s kts (circle one): Record only if the vessel has a line shooter - must **circle** correct "m/s" or "kts". N.B.: (m/sec = kts/2) and (length = sec **x** m/sec)

Branchline Set Interval (s): Recorded only from vessels with branchline timers.

Between branchlines (m): Distance *between branchlines* may be hand measured (in metres) or calculated by the observer using the formula: *Line Setting Speed* x *Branchline Set Interval*, or if not available, ask fishing master etc for the distance *between branchlines*)

Shark lines on floats (Hook No.99s): If vessel has special lines tied directly to the floats to catch extra sharks, count the total *Number* used in the set. What is their usual *Length (m)*? N.B. Do not count a shark line on a float as one of the "*hooks per basket*" (see diagram)

Were TDRs deployed ? Y / N: Circle Y (yes) if one or more temperature depth recorders are deployed at any time during the set

Target Species - Cross the box/es next to the main species the vessel is targeting during set. It is usually just one species but it could be more than one. **N.B.** to target a species gear must be set especially to catch that species. Retained bycatch was targeted.

Unusual Set Details: The information recorded in the "Longline Set Specifications" fields should represent the most common or average occurrence in the set. If this changes by much, sometimes, record the what the change is under "Unusual Set Details". Also note if the branchlines in the same basket are of different lengths.

Start of Set, *Ship's date*, *Ships time*, *UTC date*, *UTC time*: At the start of each set you must record the time and date that the ship's clock (and your watch) are set to, and the UTC time and date as read from the GPS. At all other times use only Ship's time. Remember UTC date can be different from the Ship's date.

Set Log and *Haul Log* - this form has some **very important** changes to the pre-2004 forms *Start* and *End* of *Set* and *Haul* :Complete for every single set even if not fully monitored. The observer should read the GPS directly and must **explain** in "*Comments*" if they have not. The remaining lines in the *Haul Log* must be filled at approximately every hour.

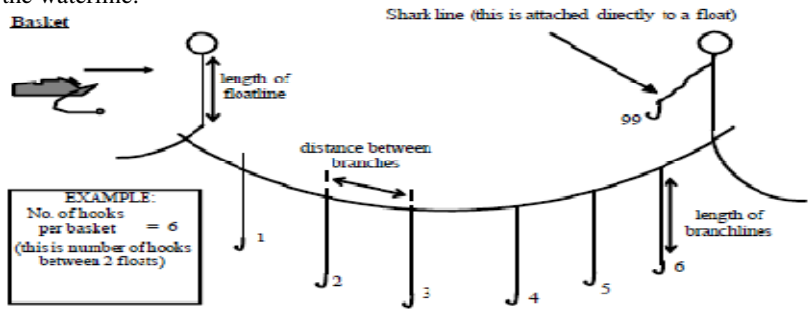
Latitude, *Longitude*, *N*, *S*, *E*, *W*: Record GPS positions in degrees, minutes and decimals, to three decimal places. Do not forget to enter north or south and east or west correctly

Bait Used - Species, *Kg*: Record species and weight (in kg) of each bait used. *Bait Used - Hook Nos*: Usually, if a boat uses more than one bait species it will put the same bait on the same hook numbers (see diagram) in each basket (e.g.: squid might go on hooks 3 and 4 while sardines go on hooks 1, 2, 5 and 6). Record the hooks for each bait type "hook nos".

Blue dyed bait - if bait used has been dyed blue circle "Y" for yes. Otherwise circle "N" for no. *No. of Light Sticks Used*: If lightsticks were used record the total number used in the set.

*Comment*s: Note significant conditions that affect set strategy or cause problems - unusual wind/sea state; SSI contacts; accidents; any unexpected event. Include events from *Soak Time*, even if asleep but found out from crew later. Record reasons that observer monitoring stopped for 30 minutes or more.

If appropriate, record ship's time

Total Baskets Observed and *Events on FORM GEN-3* - These fields must be completed.

TORI POLES: High vertical pole placed at the stern, has trailing line with plastic streamers attached. BIRD CURTAIN: Horiztonal pole with vertical streamers positioned on side (stern side of the setting station).WEIGHTED LINES: Approx. 60 to 100g of weight placed on branchline 1-3 meters away from hook. SETTING CHUTE: Equipment that ensures the line is set below the waterline.