



**SCIENTIFIC COMMITTEE  
FIFTH REGULAR SESSION**

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Port Vila, Vanuatu

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**Longline terminal gear identification guide**

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**WCPFC-SC5-2009/FT-IP-01**

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# **Longline terminal gear Identification guide (DRAFT)**

**By Steve Beverly**

This guide will help observers, researchers, and captains of longline boats to correctly identify hooks, swivels, trace lines, and bait used in pelagic longline fishing. It is important that longline gear be correctly identified as gear type has an effect, not only on target species catch rates, but on catch rates and post release mortality of bycatch species including marine turtles. The guide is divided into four sections: hooks used in longline fishing, swivels, trace lines, and bait (including lightsticks). Of these, the most important are longline hooks, as past and current research is showing that the use of circle hooks reduces the catch rate of some bycatch species while improving (or not effecting) the catch of target species. Circle hooks also improve the chances of post capture survival of released bycatch species. Standardization of hook types and sizes is therefore very important for data recording and analysis for observer logsheets, wheelhouse logsheets, and for scientific studies on the effects of terminal gear on catch rates and post capture survival. The illustrations of hooks, swivels, and trace lines are to actual size, but the illustrations of bait types are not. Japan tuna hooks and teracima hooks are measured in sun, a Japanese measurement equivalent to just over 3 cm. This refers to the length of material in the hook from eye to tip. Circle hooks are measured in cm from eye to tip. J hooks are sequentially numbered but the numbers are not the same reference as for circle hooks. For example, a 12/0 circle hook is not the same size as a 12/0 J hook. The J hook is much larger.

**DRAFT**

**Longline terminal gear  
identification guide**

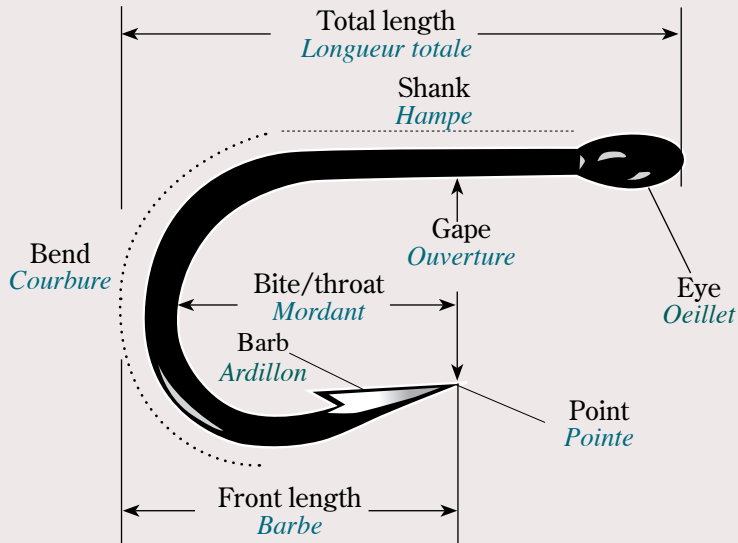
**Guide d'identification  
des bas de ligne de pêche  
à la palangre**

by Steve Beverly  
2009



This guide will help observers, researchers, and captains of longline boats to correctly identify hooks, swivels, trace lines, and bait used in pelagic longline fishing. It is important that longline terminal gear be correctly identified as it has an effect, not only on target species catch rates, but on catch rates and post release mortality of bycatch species including marine turtles. The guide is divided into four sections: hooks used in longline fishing, swivels, trace lines, and bait (including lightsticks). Of these, the most important are longline hooks, as past and current research is showing that the use of large circle hooks reduces the catch rate of some bycatch species while improving (or not effecting) the catch of target species. Circle hooks also improve the chances of post capture survival of released bycatch species. Standardization of hook types and sizes is therefore very important for data recording and analysis for observer logsheets, wheelhouse logsheets, and for scientific studies on the effects of terminal gear on catch rates and post capture survival. The illustrations of hooks, swivels, and trace lines are to actual size, but the illustrations of bait types are not. Japan tuna hooks and teracima hooks are measured in sun, a Japanese measurement equivalent to just over 3 cm. This refers to the length of material in the hook from eye to tip. Circle hooks and J hooks are sequentially numbered, the larger the number, the larger the hook, but circle hooks and J hooks with the same number are not the same size.

French translation



(<http://www.mustad.no/abouthooks/index.php>)

FOUR BASIC  
HOOK TYPES

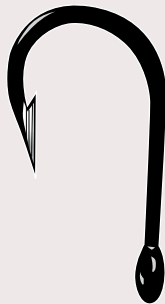
QUATRE TYPES  
D'HAMEÇONS



Circle hook  
Hameçon  
autoferrant



Japan tuna hook  
Hameçon à thon  
japonais



J hook  
Hameçon "J"



Teracima hook  
Hameçon Teracima

Note: Hooks can be stainless steel (shiny) or galvanized (dull)

Note: Les hameçons peuvent être en acier inoxydable (brillant)  
ou en acier galvanisé (mat)



Offset hook  
Hameçons  
courbure  
désaxée



Non-offset hook  
Hameçons à cour-  
bure dans l'axe



Hook with ring  
Hameçon avec anneau

Hook without ring  
Hameçon avec oeillet





Regular type  
Japan tuna hook  
Hameçons à thon  
Japonais



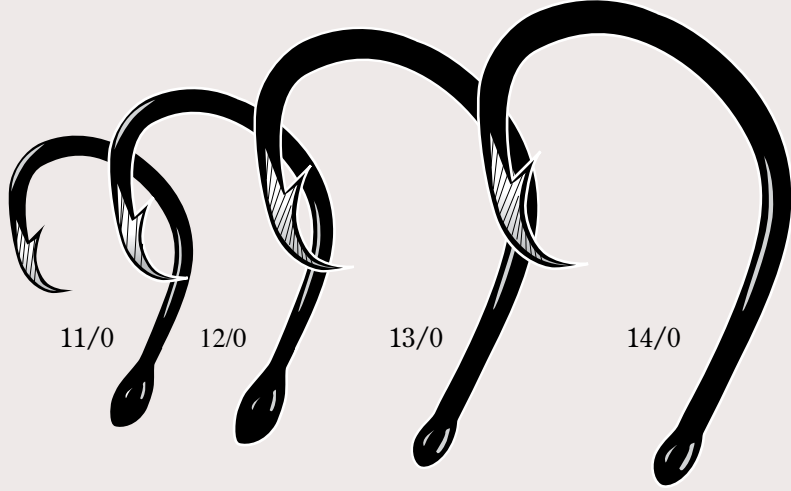
Round type  
Japan tuna hook  
Hameçons à thon  
Japonais circu-  
laire

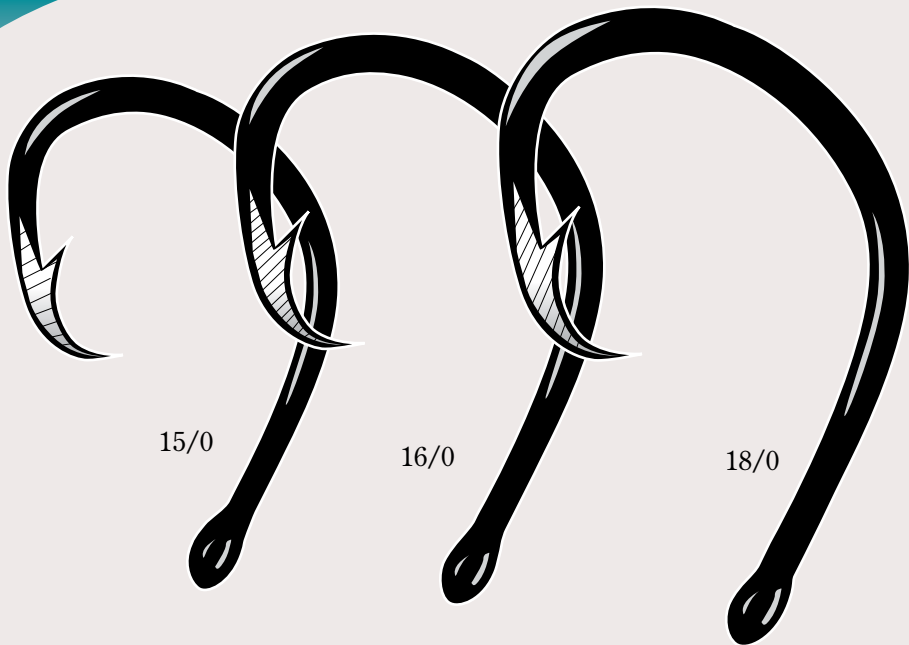


Flat shank hook  
Hameçons à cour-  
bure de section  
aplatie



Round shank  
hook  
Hameçons à  
courbure de sec-  
tion arrondie





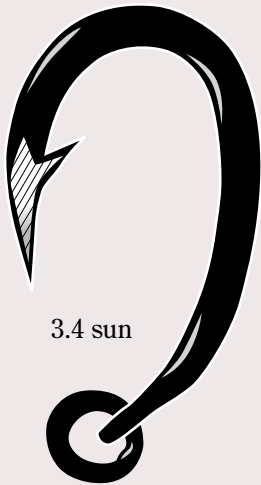
15/0

16/0

18/0



3.2 sun



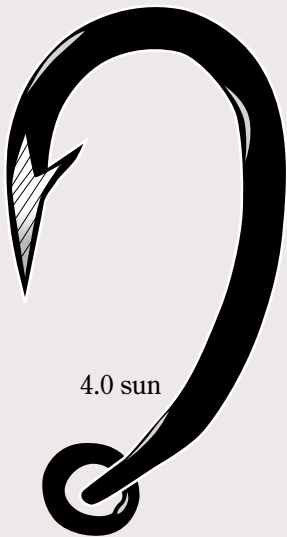
3.4 sun



3.6 sun



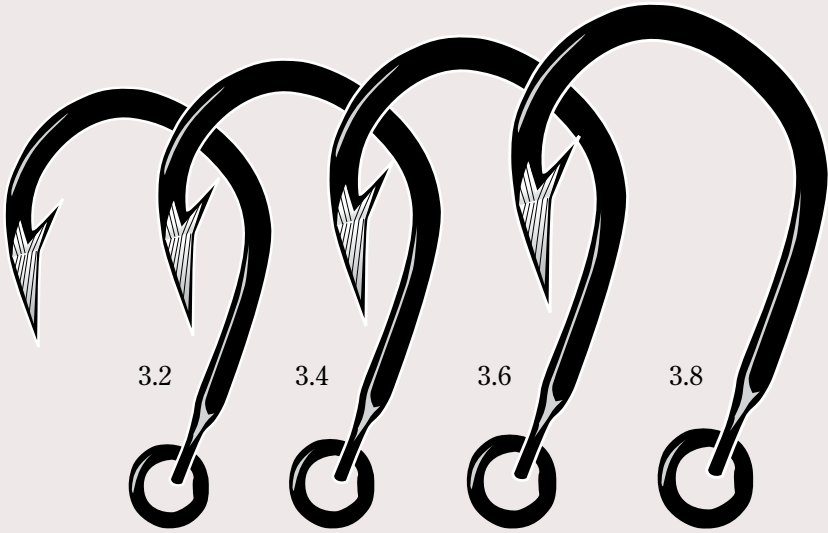
3.8 sun



4.0 sun



4.2 sun



3.2

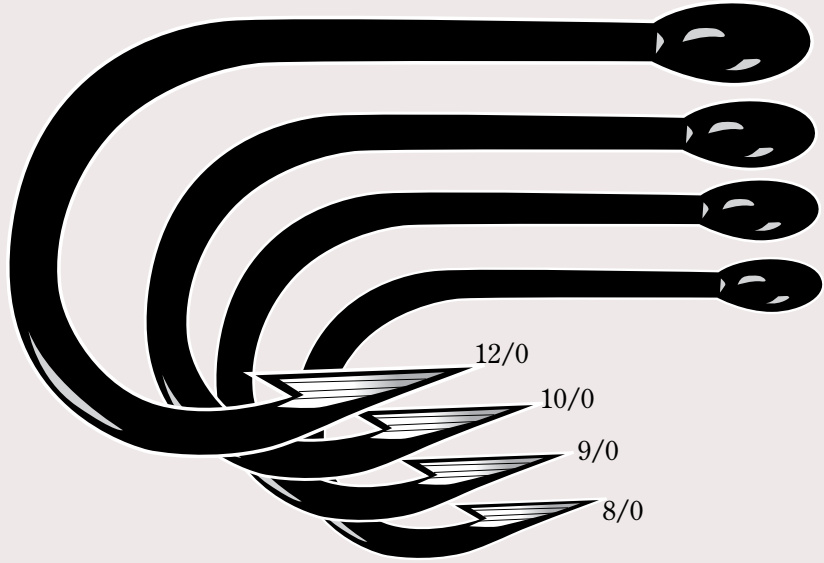
3.4

3.6

3.8

# HAMEÇONS "J"

# J HOOKS





Eight swivel  
Émerillons  
en huit



Crane swivel  
Émerillon crane



Bullet swivel  
Émerillon  
torpedo



Futuba swivel  
Émerillons  
futuba





BL swivel  
Émerillon BL



Leaded swivel  
Émerillon lesté



Barrel swivel  
Émerillons baril



Box swivel  
Émerillons baril

ÉMERILLONS  
LESTÉS

LEADED  
SWIVELS



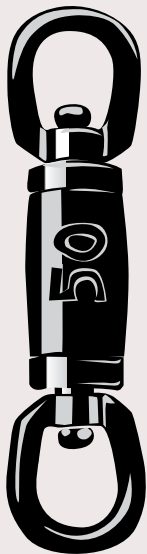
32 g



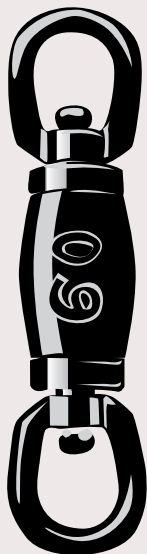
38 g



45 g



50 g



60 g



75 g



*(Note diameter / Noter le diamètre)*



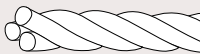
Monofilament line / **Ligne monofilament**



Galvanized wire / **Câble galvanisé**



Stainless steel wire / **Câble en acier inoxydable**



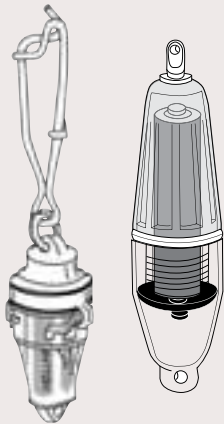
3 strand tarred rope (red or black) / **Cordage goudronné à trois torons (rouge ou noir)**



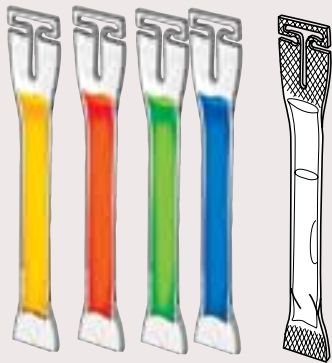
Braided line / **Cordage tressé**



Sekiyama wire / **Fil Sekiyama**



Electric light (note color)  
Lampe électrique



Chemical lightstick  
(note color)  
Bâtonnet fluorescent



***Chanos chanos***

Milkfish

Chanos, Poisson lait



***Selar crumenophthalmus***

Bigeye scad

Sélar coulisou



***Sardinops sagax***

South American pilchard

Pilchard du Pacifique,

Pilchard sud-américain



***Decapterus macarellus***

Mackerel scad

Comète maquereau



***Scomber japonicus***

Chub mackerel

Maquereau espagnol



***Cololabis saira***

Pacific saury, Sanma

Balaou du Japon, Balaou  
du Pacifique



***Ommastrephidae***

Squid

Encornets

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de la pêche

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