Departure date: ...../...../..... Country: .....
Int. vessel registration No: .....

TRIP FORM*

Main observed metier: ICES area (division) + gear code + targeted species

Programme : ***SUMARiS*** Country *(Code with 2 letters)*:

Scientific observer or crew-member observer

Last Name / First Name :

Fishing producer organisation of attachment :

Trip departure

International vessel registration No :

Name of vessel :

Length overall of vessel (m) | Engine power (kW) | Overall tonnage (GT)

Departure Port:

Departure Date & Time: __/__/____ __:__ No fishermen onboard :

Trip return

Return Port:

Return Date & Time: __/__/____ __:__

Landings port (intermediary) (if different of return port)

Date & Time of Landings : __/__/____ __:__

Sale

Name of sale location :

Sale Date & Time: __/__/____ __:__

Main sale type* :

Conveyor belt

Presence of Conveyor belt? ☐ Y ☐ N

* Fish auction, Direct sale, Exportation, other (specify)

Comments

Total number of hauls during the trip: **Total number of sampling hauls** during the trip:

Departure date: ...../...../..... Country: .....
Int. vessel registration No: .....

Number of page: /

GEAR FORM*

Complete the information below depending on fishing gear used: ⇨: *required data* / ❍ : *Single Choice*

TRAWL / BEAM TRAWL / DANISH SEINE

Associated haul(s) No

⇨ Gear Code : *(see ref. below)*	
Gear weight:	kg
⇨ Smaller mesh gauge:	mm
selectivity device(s): *(see ref. below)*	
Acoustic deterrent device: *(see ref. below)*	
Number of trawl net or Number of beam:	
Type of trawl * : *(see ref. below)*	
Fishing speed :	knots
Form of wing line * :	❍ one part ❍ several parts
Type of rig* :	❍ semi-pelagic ❍ sweep
Cumulative length of headline or beam:	m
Vertical opening :	m
Length of bridle* :	m
Number of otter board* :	0.2.4.6
Number of trawl doors*:	
Type of groundrope: *(see ref. below)*	
Sole plate height (Beam trawl) :	m

* : not required for TBB

NET (1 Bolch line = 1 Haul)

Associated haul(s) No

⇨ Gear Code: *(see ref. below)*	
Gear weight:	kg
⇨ Smaller mesh gauge:	mm
⇨ Bigger mesh gauge (trammel net) :	mm
Acoustic deterrent device: *(see ref. below)*	
Number of layers:	❍ 1 ❍ 3
Length :	m
Strengthening rope?	❍ Yes ❍ No
Net height :	m
Type of majority netting yarn:	❍ single. ❍ multi. ❍ braided

Comments :

**Source: SIH – Système d'Informations Halieutiques – French onboard observation Form*
Ref : Georges J.P. and Nédélec C. (1991) Dictionnaire des engins de pêche. Ifremer. Editions Ouest-France

References*

Gear referentials

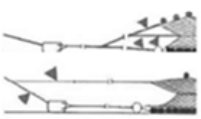
Gear code	Gear label
TBB	Bottom beam trawls
PTB	Bottom pair trawls
TBS	Bottom Shrimp trawls
PT	Pair trawls
PTM	Midwater pair trawls
OTB	Bottom otter trawls
OTT	Otter twin trawls
OTM	Midwater otter trawls
FSN	Stow nets
GN	Gillnets
GNS	Set Gillnets
GND	Driftnets
GNC	Fixed Set Gillnets
GEN	Gillnets and entangling nets
GNF	set gill nets
FPN	Stationary uncovered pound nets
LNS	Shore operated lift nets
LNB	Boat operated lift nets
LNP	Portable lift nets
GTR	Trammel nets
GTN	Combined gillnets-trammel net

Trawl type

Type code	Trawl type
IRL	Irish
CAN	Canadian
GOV	High opening bottom-trawl
FON	Bottom trawl
OTH	other

Groundrope type

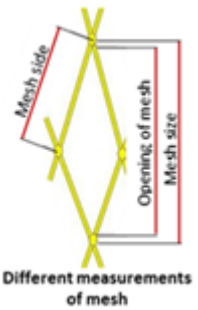
Groundrope code	Groundrope type
ROCKHO	Rockhopper
LEGANN	Light rings
FOURRE	Crammed
CAOUT	Rubber
CORDE	Rope
CLAS	Classic
CHAINE	Simple chain
CHAANN	Chain with rings
DIABOL	Diabolos
FRANC	Bourrelet franc
OTH	Other
UNK	Unknown
SUMW	Sumwing



Particular device

Device code	selectivity device
MACAR	square mesh panel
GRILL	Grid
TED	turtle exclusion device
VOILE	lint
NAPPE	separator panel
MC100	100 mm square mesh panel
MC200	200 mm square mesh panel
GMAILL	Larg mesh (100 or 180)
MCMERLU	Hake square mesh
MCBAUD	Monkfish square mesh
MCLANG	Lobster square mesh
MCCABI	Cod square mesh
MCCUL	square mesh in the cod end
PINGER	Pinger
TRAP	escape port (pot)
OTH	Other
UNK	Unknown

Device code	Acoustic deterrent device (PINGER)
DDD02	DDD02 (trawl)
DDD03	DDD03 (trawl)
CETASAVER	CETASAVER (trawl)
Aquamark 100	Aquamark 100 (set net)
DD02	DD02 (set net)
DD03	DD03 (set net)



Different measurements of mesh

Departure date : ...../...../..... Country: .....
Int. vessel registration No : .....

Number of page: /

HAULS FORM (*recto*)

		Shooting (end of the shooting of fishing gear[1])		Towing (start of the hauling of fishing gear)								
Haul No	Gear code + Targeted species (DCF level 5) **	Date & Time (Local time /24h format)	GPS Position or DD Latitude + longitude	Date & Time	GPS Position Latitude + longitude	Start bottom depth (m)	Substrate type **	Bottom temperature (°C)	Sea state **	Normal trip* Y/N	Comments	**Sampling?** [2] S/C/N
1		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							
2		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							
3		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							
4		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							
5		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							
6		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							
7		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							
8		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							
9		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							
10		__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W	__/__ / __ __:__	__ ° __ , __ __ ' N __ ° __ , __ __ 'E or W							

[1] For the passive gears, the end of shooting date is most often one or two days before the observed trip.
[2] see in verso; *Normal operation: Y/N (if N, writing a comment), ** see reference in verso

Sampling hauls (S or C) were randomly selected: YES ❒ NO ❒

Departure date : ...../...../..... Country: .....
Int. vessel registration No : .....

HAULS FORM (*verso*)

Targeted species (European Category for **métiers level 5**)*

Code	Description
ANA	Anadromous species (*e.g. salmon, shads, sea trout…)*
CAT	Catadromous species (*e.g. eel, flounder, thinlip mullet…)*
CEP	Cephalopods
CRU	Crustaceans
DWS	Deep water species
DEF	Demersal fish
DES	Demersal species
FIF	Finfish
FWS	Freshwater species
GEL	Glass eel
LPF	Large pelagic fish
MOD	Mixed cephalopods and demersal fish
MCD	Mixed crustaceans and demersal fish
MPD	Mixed pelagic and demersal fish
MDD	Mixed demersal and deep water species
MOL	Molluscs
SPF	Small pelagic fish
SLP	Small and large pelagic fish

** Source : Developers of FishFrame and COST (2008) Definition of Standard Data Exchange Format for Samplings, Landings and Effort Data from Commercial Fisheries. Ed. Teunis Jansen (DTU-Aqua). 34 pp.*

Sampling hauls

Distinguishing: (S/C/N)

- **S = "survival hauls"** (1/3 hauls) where rays are selected for scoring and monitoring → **sheets 1-6 and :**
  - ✓ **if monitoring box → sheets 8**
  - ✓ **if tagged individuals released → sheets 11**
- **C = "Catch hauls"** where rays are NOT selected for scoring. During these hauls, Catch composition information will be collected.
  → **sheets 1-5 and 9-10 and :**
  - ✓ **if tagged individuals released → sheets 11**
- **N = "unsampled hauls"**
  → **sheets 1-3**

Substrate

1: soft (sand)
2: medium (both sand and stones)
3: hard (stones only)

Sea state

0 : Calm (glassy) (0 beaufort)
1 : Calm (rippled) (~1 beaufort)
2 : Smooth (wavelets) (~2 beauforts)
3 : Slight (~3-4 beauforts)
4 : Moderate (~5-6 beauforts)
5 : Rough (~7 beauforts)
6 : Very rough
7 : High
8 : very high
9 : Phenomenal

Reminder on the protocol

	Trawls	Nets
Minimum Number of sampled skate's individual by haul	**10**	**5**

- **"Survival hauls":** Priority to Thornback ray (*Raja clavata*) and young individuals (<45 cm in French coasts).
- **"Catch hauls":** For all skate species, with priority to Thornback ray.

Precise percentage of hauls sampled is left to the observers' discretion:

	Sampling hauls by trip	For Sampling hauls	
		Catch hauls	Survival hauls
FR	**~30 %**	**1/3**	**2/3**
BE, NL	**~50 %**	**1/3**	**2/3**
EN	**~100 %**	**1/3**	**2/3**

Departure date : ...../...../..... Country: .....
Int. vessel registration No : .....

Number of page: /

CATCH FORM (All fish species)

Total catches (All fishes)

Weight accuracy: with 1 decimal place

Haul No	For trawl	For net		TOTAL catch for all fishes	Sand and stones weight (%)[1]	Benthos weight (%)[1]
	On deck	**Start sorting**	**End sorting**			
	Date & Time	Date & Time	Date & Time	Landing weight (kg)		
1	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			
2	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			
3	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			
4	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			
5	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			
6	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			
7	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			
8	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			
9	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			
10	__/__/__ __:__	__/__/__ __:__	__/__/__ __:__			

[1] Work by weight categories, just for survival hauls: **0** = none, **1** <=10% of the total catch weight , **2**= 10-50%, **3** >= 50%

Departure date : ...../...../..... Country: .....
Int. vessel registration No : .....

Number of page: /

ON-BOARD REFLEX-DAMAGE-MORTALITY FORM (*recto*)*

Individual process ** see ref. on the reverse*

***LENGTH accuracy**: with 1 decimal place*

							Vitality (A/B/C/D)	Reflex (0 / 1)				Injuries (0 / 1 / 2 / 3)								
Row No	Haul No	FAO species code	Skate or ray species (Common name FR, NL, EN)	Time of measure Date & Time	Time of picking* (1, 2, 3)		Vitality score	R1 Tail grab	R2 Startle touch	R3 Spiracle	R4 Body flex	D1 Open wounds	D2 Head	D3 Body	D4 Tail	D5 Fin damage	Sex M/F	Total length (cm)	Tag-ID** for ❒ monitoring box ❒ released indiv.	Monitoring box -ID**
1				_ _/_ _/_ _ _ _:_ _																
2				_ _/_ _/_ _ _ _:_ _																
3				_ _/_ _/_ _ _ _:_ _																
4				_ _/_ _/_ _ _ _:_ _																
5				_ _/_ _/_ _ _ _:_ _																
6				_ _/_ _/_ _ _ _:_ _																
7				_ _/_ _/_ _ _ _:_ _																
8				_ _/_ _/_ _ _ _:_ _																
9				_ _/_ _/_ _ _ _:_ _																
10				_ _/_ _/_ _ _ _:_ _																
1				_ _/_ _/_ _ _ _:_ _																
2				_ _/_ _/_ _ _ _:_ _																
3				_ _/_ _/_ _ _ _:_ _																
4				_ _/_ _/_ _ _ _:_ _																
5				_ _/_ _/_ _ _ _:_ _																
6				_ _/_ _/_ _ _ _:_ _																
7				_ _/_ _/_ _ _ _:_ _																
8				_ _/_ _/_ _ _ _:_ _																
9				_ _/_ _/_ _ _ _:_ _																
20				_ _/_ _/_ _ _ _:_ _																

Time of picking: **1: skate picked of the conveyor belt at the start of sorting, **2**: skate picked of the conveyor belt in the middle of sorting, **3**: skate picked of the conveyor belt at the end of sorting ; *** Just for monitoring individuals

Departure date : ...../...../..... Country: .....
Int. vessel registration No : .....

ON-BOARD REFLEX-DAMAGE-MORTALITY FORM (*verso*)

Vitality score

A = Fish in excellent condition, vigorous body movement and no or minor external injuries only
B = fish in good condition, weak body movement, minor external injuries
C = fish in poor condition, no body movement but fish can move operculum and minor or major external injuries
D = Dead

R1_Tail grab (test IN water)

Gently grab ray by the tip of the tail between thumb and indexfinger (watch out for any spines)
→ RESPONSE: Actively struggles free and swims away
0 = reflex is ABSENT **1 = reflex is PRESENT**

R2_ Startle touch (test ABOVE water)

Tap gently but firmly behind the eyes and spiracles using a fingertip
→ RESPONSE: Actively closes and retracts its eyes
0 = reflex is ABSENT **1 = reflex is PRESENT**

R3_Spiracles (test ABOVE water)

Look at the opening and closing of the valves inside the spiracles
→ RESPONSE: The spiracles actively open and close
0 = reflex is ABSENT **1 = reflex is PRESENT**

R4_Body flex (test ABOVE water)

Hold the ray by its anterior end of its disc in a horizontal, plane position, one hand on either side of the mid-line (dorsal side facing up); larger specimens may be supported also by their posterior end
→ RESPONSE: Actively moving its pectoral fins, tail, and body
0 = reflex is ABSENT **1 = reflex is PRESENT**

For all reflexes: **weak/unsure = present**

D1_Open wounds (both sides)

0 = Open wounds are ABSENT
1 = Open wounds are PRESENT

D2_Bleeding head (only belly side)

0 = head bleeding is ABSENT
1 = head bleeding <10%
2 = head bleeding >=10% and <= 50%
3 = head bleeding > 50%

D3_Bleeding body (only belly side)

0 = bleeding body is ABSENT
1 = bleeding body <10%
2 = bleeding body >=10% and <= 50%
3 = bleeding body > 50%

D4_Bleeding tail (only belly side)

0 = bleeding tail is ABSENT
1 = bleeding tail <10%
2 = bleeding tail >=10% and <= 50%
3 = bleeding tail > 50%

D5_Fin damage (both sides)

0 = Fin damage is ABSENT
1 = Fin damage <10%
2 = Fin damage >=10% and <= 50%
3 = Fin damage > 50%

General comments

Departure date : ...../...../..... Country: .....
Int. vessel registration No : .....

Number of page: /

ONBOARD INDIVIDUAL MONITORING & ENVIRONMENTAL PARAMETERS FORM

At the end of monitoring process

Monitoring row No	Haul No	Tag-ID	Mortality		If dead, kept individual for vertebral column (Y/N)	Time for measured parameters Date & Time	Parameters measured					Comments
			death has been established				DO* (%)	Salinity (PSU)	T°C Water (°C)	T°C Air (°C)	% Cloud cover	
			Y/N	Date & Time								
1				__/__/__ __:__		__/__/__ __:__						
2				__/__/__ __:__		__/__/__ __:__						
3				__/__/__ __:__		__/__/__ __:__						
4				__/__/__ __:__		__/__/__ __:__						
5				__/__/__ __:__		__/__/__ __:__						
6				__/__/__ __:__		__/__/__ __:__						
7				__/__/__ __:__		__/__/__ __:__						
8				__/__/__ __:__		__/__/__ __:__						
9				__/__/__ __:__		__/__/__ __:__						
10				__/__/__ __:__		__/__/__ __:__						
11				__/__/__ __:__		__/__/__ __:__						
12				__/__/__ __:__		__/__/__ __:__						
13				__/__/__ __:__		__/__/__ __:__						
14				__/__/__ __:__		__/__/__ __:__						
15				__/__/__ __:__		__/__/__ __:__						
16				__/__/__ __:__		__/__/__ __:__						
17				__/__/__ __:__		__/__/__ __:__						
18				__/__/__ __:__		__/__/__ __:__						
19				__/__/__ __:__		__/__/__ __:__						
20				__/__/__ __:__		__/__/__ __:__						

** DO: Dissolved oxygen percentage of the water in the unit*

Departure date : ...../...../..... Country: .....
Int. vessel registration No : .....

Interreg 2 Seas Mers Zeeën

Number of page: /

CATCH FORM (Skate & rays)

Haul No

Specific skate and rays catches information

Estimated Discards weight for fishing skate or ray? ☐ YES ☐ NO
Estimated Landings weight for fishing skate or ray ? ☐ YES ☐ NO

⚠ *Hauls without skates must to be accounted (0 kg for the species)*

			LANDINGS skate and rays					DISCARDS skate and rays				
			All individuals		Sampling individuals			All individuals		Sampling individuals		
Sampling box-ID	FAO **declarative** species code	FAO **scientific** species code	Total number of individuals	Total weight (kg)	Fraction %	Sampling number of indiv.	Sampling weight (kg)	Total number of individuals	Total weight (kg)	Fraction %	Sampling number of indiv.	Sampling weight (kg)
1	*RJC*	*RJM*	⧅⧅⊓	*38.5*				⧅⌈	*20.0*	*50*	⊓	*10.0*
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												

⚠ • **3/5 fields minimum need to be completed (If "no exhaustiveness" p.10, then input in addition the sampling number of ind.)**
• **2 fields will have to be calculated, thanks to other fields**

Departure date : ...../...../..... Country: .....
Int. vessel registration No : .....

Interreg 2 Seas Mers Zeeën
European Regional Development Fund

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INDIVIDUAL SAMPLING FORM

Haul No

Exhaustiveness of DISCARDS skate and rays species: YES ☐ NO ☐ **Total number of sampling DISCARDS ind.**
Exhaustiveness of LANDINGS skate and rays species: YES ☐ NO ☐ **Total number of sampling LANDINGS ind.**

Indiv. No	FAO **scientific** species code	Skate or ray species (Common name FR, BE, NL or EN)	**Sex** M/F	**Total length** (cm) *(1 decimal of accuracy)*	**Dead?** (Y/N)	**Landings / discards** (LAN/DIS)	Discard Reasons*	Tag-ID	Comments
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
1									
2									
3									
4									
5									
6									
7									
8									
9									
20									

Discards reasons are based on fishery observer's discretion and apply to all stocks, both under and out of the landing obligation.
* **B** = Individuals Below Minimum reference Size, BMS (Relevant for stocks under the landing obligation). * **P** = Landings authorized, but sale prise is insufficient to land
* **D** = Damaged fish by predation * **Q** = quota or catch limit reached * **U** = unknown
* **NA** = information not provided

Departure date : ...../...../..... Country: .....
Int. vessel registration No : .....

Interreg 2 Seas Mers Zeeën
European Regional Development Fund

Number of page: /

TAG INFORMATION FOR HAULS with released

At the end of monitoring process

Monitoring box -ID	Haul No	Tag-ID	Time of released Date & Time	Latitude of released	Longitude of released	Comments
1			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
2			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
3			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
4			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
5			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
6			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
7			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
8			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
9			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
10			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
1			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
2			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
3			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
4			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
5			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
6			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
7			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
8			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
9			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	
20			__/__/__ __:__	__ ° __ , __ __ ' N	__ ° __ , __ __ 'E or W	