EFFORT FORMS

SURVEY DETAILS								TEAM				SURVEY CONDITIONS						GLARE					COMMENTS
Date	Time	Event	LAT	LON	Subarea	Survey	Transect	Pilot	Front Spotter	Left rear Spotter	Right rear Spotter	Altitude	Sea State	Haze	Turbidity	Clouds	Glint	Side	Sector	Intensity	Subjective P	Subjective S	

SIGHTINGS FORMS

POSITIONING DATA									SIGHTING DATA													SCHOOL COMPONETS						COMMENTS
Num	Date	Event	Time FS/ ABEAM/ Circle	LAT FS/ ABEAM/C ircle	LON FS/ ABEAM/ Circle	ABEAM?	Angle ABEAM	Altitude	Observer	Cue	Species	Total Number PS	Individual average weight PS	Total Weight PS	Surface/Under	Total Number SS	Individual average weight SS	Total Weight SS	Leave ?	Photos?	Photo Number	% small	% medium	% large	% giant	Cetaceans?	Birds?	
		F																										
		A																										
		C										700-300	150-300	195000	SUR-UND	400-200	150-300	125000										
		F																										
		A																										
		C																										
		F																										
		A																										
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		F																										
		A																										
		C																										
		F																										
		A																										
		C																										

	Species	scientific name	Species code	TF
	Bluefin tuna	Thunnus thynnus	BFT	TRUE
	Albacore	Thunnus alalunga	ALB	FALSE
	Swordfish	Xiphias gladius	SWO	
	Shark		SHA	
	Manta (mobula)	Mobula mobular	MOB	
	Undentified Fish		UNF	
	Sperm whale	Physeter catodon	SPE	
	Fin whale	Balaenoptera physalus	FIN	
	Minke whale	Balaenoptera acutorostrata	MIN	
	Other whale	Mysticetus und.	WHA	
	Common dolphin	Delphinus delphis	COD	
	Striped dolphin	Stenella coeruleoalba	SDO	
	Bottlenose dolphin	Tursiops truncatus	BOT	
	Roughtooted dolphin	Steno bredanensis	RDO	
	Unidentified dolphin	Delphinidae und.	UDO	
	Killer whale - orca	Orcynus orca	KIL	
	Risso´s dolhpin	Grampus griseus	RIS	
	Pilot whale	Globicephala melas	PIL	
	Cuvier's beaked whale	Ziphius cavirostris	CUV	
	Unidentified cetacean	Cetacea und.	UMM	
	Monk seal	Monachus monachus	MOS	
	Loggerhead turtle	Caretta caretta	CAR	
	Leatherback turtle	Dermochelys coriacea	LEA	
	Unidentified Turtle		UNT	
	Other		OTH	

Company	Spotters	Type-spotters	ID
Grup Air Med S.A.	Javier Fernández García	Pilot	85
Grup Air Med S.A.	Miren Zuriñe Alberdi Tapia	Pilot	86
Grup Air Med S.A.	Luis Navarro Martínez	Professional spotter	26
Grup Air Med S.A.	José Antonio Vazquez Bonales	Scientific observer	48
Grup Air Med S.A.	Ohiana Revuelta Avín	Scientific observer	59
Grup Air Med S.A.	Mónica Gil Perez	Scientific observer	74
Aerial Banners S.r.l.	Francesco Orrico	Pilot	7
Aerial Banners S.r.l.	Francesco Ruggiero	Pilot	8
Aerial Banners S.r.l.	Armando Mancini	Pilot	80
Unimar Soc. Coop.	Salvatore De Martino	Professional spotter	31
Unimar Soc. Coop.	Vicenzo Severino	Professional spotter	34
Unimar Soc. Coop.	Mario Piscino	Professional spotter	75
Unimar Soc. Coop.	Adriano Mariani	Scientific observer	37
Unimar Soc. Coop.	Andrea Fusari	Scientific observer	38
Unimar Soc. Coop.	Andrea Poggi	Scientific observer	39
Unimar Soc. Coop.	Simone Serra	Scientific observer	66
Action Air Environnement	Guiseppe Pillitteri	Pilot	81
Action Air Environnement	Marc Bayle	Professional spotter	82
Action Air Environnement	Maéva Rince	Scientific observer	83
Action Air Environnement	Emilie Bruzzese	Scientific observer	84
Action Air Environnement	Patrick Feron	Pilot	16
Action Air Environnement	Silvère Fontanet	Professional spotter	32
Action Air Environnement	Hélder Eduardo Fernandes Araújo	Scientific observer	71
Ministry of Food, Agriculture and Livestock	Cihan Toslak	National observer	68

BLUEFIN TUNA SCHOOL COMPONENTS	code
individuals <25 kg	small
individuals 25 to 150 kg	medium
individuals 150 to 300 kg	large
individuals >300 kg	giant

Cue		Code
Splash	Fish(es) jumping clear off the water or splashing on a side	SP
Ripples	Fish(es) swimming just below the surface, with the dorsal side moving the surface	RI
Shining	Classical behaviour of spawners, when fishes come to the surface, swimming on a side for a few seconds, reflecting the sun light like mirrors	SH
Travelling	Fishes going clearly in a certain direction	TR
Underwater	Body seen under water surface	UN
Surface	Body see at surface	SU
Vessel/Gear	Vessel or gear detected just before animals	VG
Blow (Cetaceans)		BL
Jump (Cetaceans)		JU
Slick, flukeprint		SL
Birds		BI
Cetaceans		CE
Fish		FI
Other		OT

SEA STATE (BEAUFORT SCALE)	code
calm	0
very light	1
light breeze	2
Start to appear some isolated whitecaps	2.5
gentle brezee	3
moderate brezee	4

HAZE SCALE	Code
no haze - clear	0
slight haze	1
moderate haze	2
diffused haze	3
heavy haze - foggy	4

TURBIDITY	explanation	code
clear water	animals visible at many m depth	0
moderately clear	animals visible under the surface	1
moderately turbid	animals visible just under the surface	2
turbid	full lack of transparency	3

GLINT	Code
no glint	0
glint	1

GLARE intensity	explanation	code
no glare		0
slight glare	very little effects on observations	1
moderate glare	may affect by ability in the sector	2
strong glare	severely affect my sightings	3

GLARE Side	Code
Port	P
Startboard	S
Port/Startboard	PS

Clouds	Code
Clear Sky	0
	1
	2
	3
Parcialy Cloud	4
	5
	6
	7
Full Cloud Cover	8

LATITUDE or LOGITUDE (decimal degrees)	code
example 35°15.45	35.2625

Subarea	Code
Balearic Sea	A-I
Southern Tyrrhenian Sea	C-I
Central-Southern Mediterranean Sea	E-I
Levantine Sea	G-I

Abeam	Code
if the angle has been recorded abeam	Y
if the angle has not been recorded abeam	N

Event effort	Code
Start effort	ON
End effort	OFF
Leaving transect	LE
Flying over the land	LA
Rejoin transect	RE

Event sighting	Code
When animals first sigted	F
When animals abeam	A
When arriving at position of animals for circling	C

Leave	Code
Yes if you left the transect to get closer to animals	Y
No if you didn't leave the transect	N

Subjective search conditions	Code
Good	G
Moderate	M
Poor	P

Cetaceans	Code
if there were cetaceans associated with BFT	Y
if not	N

Birds	Code
if there were birds associated with BFT	Y
if not	N