

## SQUADRON D-11N TRAINING

Module 5, Patrol/SAR Log

Developed by Skip Morford



U.S. COAST GUARD AUXILIARY



### Patrol Plan

This form is information given to Air Station, and Sector, by phone to each, just prior to takeoff. The calls are made after crew patrol briefing.

The numbers for Sector are -- 1-415-399-3451 -- 1-451-399-3520

The number for Air Station is -1-650-808-2902

The contact cell number is to be decided by the crew

Departure airport where you taking off from and returning

Take off time is approximate

Duration of flight is on the flight schedule

Frequency monitored are always 21A primary and 16 secondary

1st landing to be decided by PIC (for lunch and fuel ) if needed

Final landing is airport where patrol started

Significant events/sightings are also reported after patrol, on the last phone call to

Sector and Air Station

Duty stander name is optional, signature is optional.



# Patrol Plan-complete

AIR AUXILIARY PATROL REPORT
DATE/TIME 1/24/14 10:00 RISK ASSESMENT COLOR GRN# 10
PARTOL TYPE Bravo
PILOT IN COMMAND Wheeler
CONTACT PHONE NUMBER 1-925-784-2141
NAMES CREW/PASSENGERS  1. Morford  2. Pasqual  3
TAKE OFF TIMEDORATION OF FEIGHT
FREQS. MONITOREDPRIMARY 21A SECONDARY 16
1st LAND TIME (LUNCH)/LOCATION Petaluma
FINAL LAND TIME/LOCATION Livermore
SIGNIFICANT EVENTS/SIGHTINGS
Report events recorded on the Patrol Log to Sector and
Air Station during the last phone call.
DUTY STANDER'S NAME DUTY STANDERS SIGNITURE



## Patrol Log

"Patrol Log is to document observations made, the time and location of observations, and latitude and longitude (or geographical location) of any event and of radio reports made."(ref. B.12.a) Aviation Training Manual



# Patrol Log -blank

MSN:		DATE:	ORDER NO:	THE RESERVE
		TAIL NO:	MINE AND A STATE OF	
			ENGINE TACH TI	ME
CREV	W MEMBERS	AUX NUMBER	STOP TIME	
1. (P)			START TIME	
2.			TOTAL TIME	
3.			FACILITY USE T	IME
4.			USE ENDED	
5.			IN USE	
6.			TOTAL TIME	
TIME	CONTACT	LAT. & LONG.	MESSAGE OR ACT	ON
		V		*
	- W	la.		



### PATROL LOG INSTRUCTIONS

MSN -- type of patrol, (Alpha, Bravo, Charlie, Delta, Echo)

ORDER # -- found on flight schedule

TAIL # -- found on flight schedule

PILOT NAME – found on flight schedule

PRIMARY OBSERVER – found on flight schedule

CREW MEMBERS – if known add before the patrol, if not wait till arriving at airport

AUX MEMBER – if known add before the patrol, if not wait till arriving at airport

This information should be filled out before arriving at airport for patrol

FACILITY USE TIME – in use, when all the crew arrives at airport – use ended time after debriefing, calls to Sector and Air Station, aircraft is put away.

ENGINE HOBBS TIME – start time -- before engine starts

stop time – last time engine stops at end of patrol

TIME -- recorded for all entries on log

CONTACT – who radio call was made to, (Sector, boat stations, aux vessels)

LAT. & LONG. – present location

MESSAGE – what was reason or message of the call on the radio

SIGNIFICANT SIGHTINGS-REPORTED/LOGGED IMMEDIATELY.



OTHER ENTRIES ON LOG – engine start, engine stop, recorded every time engine start and stop occurs.

TAKE OFF TIME – given to Sector upon opening guard – given to pilot for his flight plan opening

Record times for opening guard, closing guard for lunch and fuel, resuming guard after Lunch and fuel stop, securing guard at end of patrol

All entries in RED are used by the pilot when filling out the AOM report.

This is an example of the filling out the Patrol Log.



- 1	US	CG Auxiliary Fligh	nt Log	-
MSN:		DATE: 1/15/14	ORDER NO:	28873
BRAVO		TAIL NO: N2260S		
		F. 10 (0) (0)	ENGINE 1	ACH TIME
CREV	V MEMBERS	AUX NUMBER	STOP TIME	183.4
1. (P) Wh	peeler	1193126	START TIME	180.2
2. Mor	ford	1213839	TOTAL TIME	3.2
3. Paso	qual	1232616	FACILIT	Y USE TIME
4	2.0		USE ENDED	15:30
5.			IN USE	09:30
6.			TOTAL TIME	6.0
TIME	CONTACT	LAT. & LONG.	MESSAGE	OR ACTION
0955		Livermore	Start engine	
10:10		Livermore	Take off	
10:12	Sec SF	Livermore	Open guard	
10:27	Sec SF	38*01 / 122*16	Ops. normal	
	Continu	e Ops. Normal reports e	every 15 minute	S
11:35	Sec SF	Petaluma	Close guard/ landing	
11:45		Petaluma Stop engine		ine
13:31		Petaluma	taluma Start engine	
13:42	Sec SF	Petaluma	Resume guard	
13:57	Sec SF	37*23 / 122*32	Ops. normal	
	Conti	nue Ops. Normal report	s every 15 minu	ites
14:44	Sec SF	Livermore	Landing- Secure Guard	
14:55		Livermore	Stop engine	
			1	



MSN: BRAYO		DATE: (2-11-13	ORDER NO:	27/7/	
		TAIL NO: N 23605		5-18-6= TACH TIME	42.9
CREV	V MEMBERS	AUX NUMBER	STOP TIME	175.8	
1. (P) \(\lambda\)	HEELER	1193126	START TIME		
	REPORD	1213839	TOTAL TIME		
7.0	QUAL	1232616	FACILIT	YUSETIME	
4.			USE ENDED		
5.	0 3 2		IN USE	0930	
6.			TOTAL TIME		
TIME	CONTACT	LAT. & LONG.	MESSAGE	OR ACTION	
1000		KLYK	STARTE	ENGINE	
1014		KLYK	TAKE E	DEF	
	SecSF	KLYK	OPEN G	HARD	
	Sec SF	38°00-122°20	OPS H	ormac	
1047	SESF	37.58-1230	OPSA	DRMMZ_	#/
1102	Secsi	39°28 - 12311	OPS N	ORMACHI	
1117	-BC > Y	20 40 10 21	UDA	Dichine	# 2000
		38°26-123'08		DEMAL	1000
1247		37 57 - 122 47			
1157	SECSF	HAZE MODALIB	99 Close	GUARED	
1209	2		STOP	ENGINE	
1318		11 11 11	START	ENG	
1326		16 11 11	7/0		
	SSF	57HAF	DPEN G		
-	55F	3659 12211	OPS N		
	59F	WATSONVILLE	OPS N		
	SSF	5>ZVK		GLIARIS	
1419		LVK	LNOG		



## Patrol Log Value

- Follow up by Coast Guard for potential rescue/distress cases, violations e.g. oil spills, Homeland Security concerns, navigations aids missing.
- Pilots use data for completing an AOM patrol report for 1) credit for all crew, 2) reimbursement, and, 3) most importantly significant sightings during the patrol.



## SAR Log-Details

#### **AUXAIR SAR Job Aid**

#### Information:

Where is CSP
What kind of Pattern
Dimensions of Search Area
Length of Legs
Orientation of Legs
Track Spacing
Direction of First Turn
CSP
Planned On Scene Time
Planned Search Speed (normally 90kts)
Search Object – Characteristics, Color, Size, etc

#### Determine:

Time to get on Scene

Required endurance – Fuel, Light - to complete the search and RTB with adequate reserves

Available Endurance - How much Time will you have on Scene to search rolietr

T = A / S x V or A = V x S x T

Bingo Time – Time to RTB w/ minimum adequate reserves

Check necessary PPE Safety Gear

#### Record:

Time Notified
Time Underway to Scene (CSP)
Time on Scene
Time of Significant Sightings
Time Departing Scene
On Scene Weather
Distance to Scene (CSP)
Distance from closest land
Case Number

#### Report:

When en-route to Search Area
When On Scene
On Scene Weather as it affects the search
Any Significant Sightings
When Search is Completed – Ask for any further tasking
before departing Scene
If departing scene before search is completed (due to
fuel state or WX) report amount of search
completed - # of legs, etc.

#### While Searching

Maintain hard deck of 500ft AGL
Maintain Situational Awareness
Look out for:
Scattlered wreckage, canvas, debris, oil slicks
Signals - Sea Dye Markers, Mirror Flashes,
Pyrotechnics, Smoke
Lifeboats, Rafts, People in Water

#### Remember:

Notify ATC of your Search - Use RESCUE call sign Squawk 1277 - unless instructed otherwise 90 kts = 1.5 NM per minute At 90 kts, a Standard Rate Turn (3 deg/sec) has a radius of .50 NM Monitor 121.5 & CH 16 if able Any Questions? ASKI

#### After RTB:

Phone Air Station & Group to give SITREP Complete 7034 SAR Incident Report Complete Patrol report and other reports as usual



### WHEN ON A SAR

- Time that the aircraft arrives in the search area.
- Distance from the takeoff point to the search area.
- Time and location of ANY significant sightings.
- On scene weather (wind speed and direction, visibility, wave height, and direction of wave movement)

This information is to be recorded on the Patrol Log and in radio call to Command Center



### WHEN ON A SAR

- If search object is located, log time on scene and time departing scene.
- Areas searched including altitude and search patterns flown.
- Hours of search.
- Engine stop time.
- Total hours flown.

This information is to be recorded on the Patrol Log and in radio calls to Command Center.



### SAR GUIDE

- Time notified
- Time underway to scene
- Distance to scene
- Available endurance on scene
- Time on scene
- On scene weather
- What type of pattern will be used



### SAR GUIDE

- Time of significant sightings
- Time departing scene
- Case number
- After RTB phone Air Station and Sector to give SITREP and obtain SAR case #.
- Complete 1034 SAR incident report (Misle)??
- Complete Patrol report and other reports as usual



## NOAA After Patrol Report

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4		III.	
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### **USCG D11N AuxAir Squadron**



N	IOAA MBNMS Report Form	
REPORTER'S NAME NAME NAME NAME NAME NAME NAME NAME	START TIME 10:08 END TIME 14:19 975 Stell POT E  TELEPHONE 784-2141 EMAIL Shoglob  PILOT'S NAME WILE LER  ARNETT  MBNMS GOLDEN GATE TO MOSS LEI	onlene
MPWCs OUTSIDE OF MF  p. 7  SALVAGE OR OTHER VI  DEPLOYING EQUIPMEN  REMOVING ITEMS*  AIRCRAFT BELOW 1000  OVERFLIGHT ZONES, *p  ENTANGLED WHALES, I  FTC.*  ANY FISHING ACTIVITI  IN STATE MPAS, *pp, 14-  *MMEDIATELY NOTIFY OFPIC  ON 23A, AND ALSO INCLUDE D	IMO VESSEL TRACKS,* p. 12 VESSELS HARASSING OR WIT BOAT LENGTHS OF WHALES SHARKS* SHORLINE CONSTRUCTION OF MAINTENANCE DOLPHINS, DOLPHINS, DOLPHINS, DOLPHINS, DOSTAILS OF THER SER BOB YERENA BY CONTACTING USCG STATION MODERALS IN THIS REPORT	LE. HORE OF THIN TWO OR WHITE OR
CONSULT NOAA MENMS REGULATIONS, MAPS AN UPON COMPLETION OF P ROBERT YERENA, cohert, SCOTT KATHEY, scott, luttle REPORT SUSPECTED VIO	DUR LOCAL TIME UTION PHOTOS OF SUBJECTS OF INTEREST ARE REQU S AIR PATROL GUIDE (USCG AUX BDITION) FOR DETAI ND PAGE NUMBER REFERENCES PATROL, FAX OR SCAN-AND-EMAIL THIS REPORT SHE YYCTHA® INSILIDY, VOICE: 831-647-420, FAX: 831-647-420 hey@ nosa.gov, VOICE: 831-647-4251 FAX: 831-647-4250 DLATIONS (MARKED BY * ABOVB) IMMEDIATELY BY UTION MONTEREY ON CHANNEL 23A	ILS OF
DESCRIPTION OF SUBJECT, IDE		G
	USCG D11N AwAir Squadron NOAA Report Form-	v130119.doc

SUBJECT OF	INTEREST OBSERVATIONS PROM- 37°28- /22°30 70
TIME 1319	LAT/LONG AND GEOG LOCATION 37°06- 122°20
	N OF SUBJECT, IDENTIFYING MARKS, NAMES, NUMBERS AND ACTIVITY
1328	- WHALE SIGHTING - 37º18 - 122°25
	ISHING BOATS AT VIARIOUS LOCATIONS
SPEED AND	DIRECTION OF TRAVEL_150 SOUTH BOUND
SUBJECT OF	INTEREST OBSERVATIONS FROM - 37°06 - 122°25 to
TIME 133	I LATILONG AND GEOG LOCATION 3756 - 121° 59
	N OF SUBJECT, IDENTIFYING MARKS, NAMES, NUMBERS AND ACTIVITY
ZF	TISHING VESSELS NEAR SANTA CRUZ,
- VA	RIOUS LOCATIONS
SPEED AND	DIRECTION OF TRAVEL 150 - SOUTH BOUND
SUBJECT OF	INTEREST OBSERVATIONS
TIME	LAT/LONG AND GEOG LOCATION
	N OF SUBJECT, IDENTIFYING MARKS, NAMES, NUMBERS AND ACTIVITY
SPEED AND	DIRECTION OF TRAVEL
SUBJECT OF	INTEREST OBSERVATIONS
	LAT/LONG AND GEOG LOCATION
	N OF SUBJECT, IDENTIFYING MARKS, NAMES, NUMBERS AND ACTIVITY
	ACTIVITY
CDEED AND	DIRECTION OF TRAVEL

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This report is made after patrol. Information reported is Half Moon Bay south into Charlie