



SQUADRON D-11N TRAINING

Module 1 - Introduction



U.S. COAST GUARD AUXILIARY

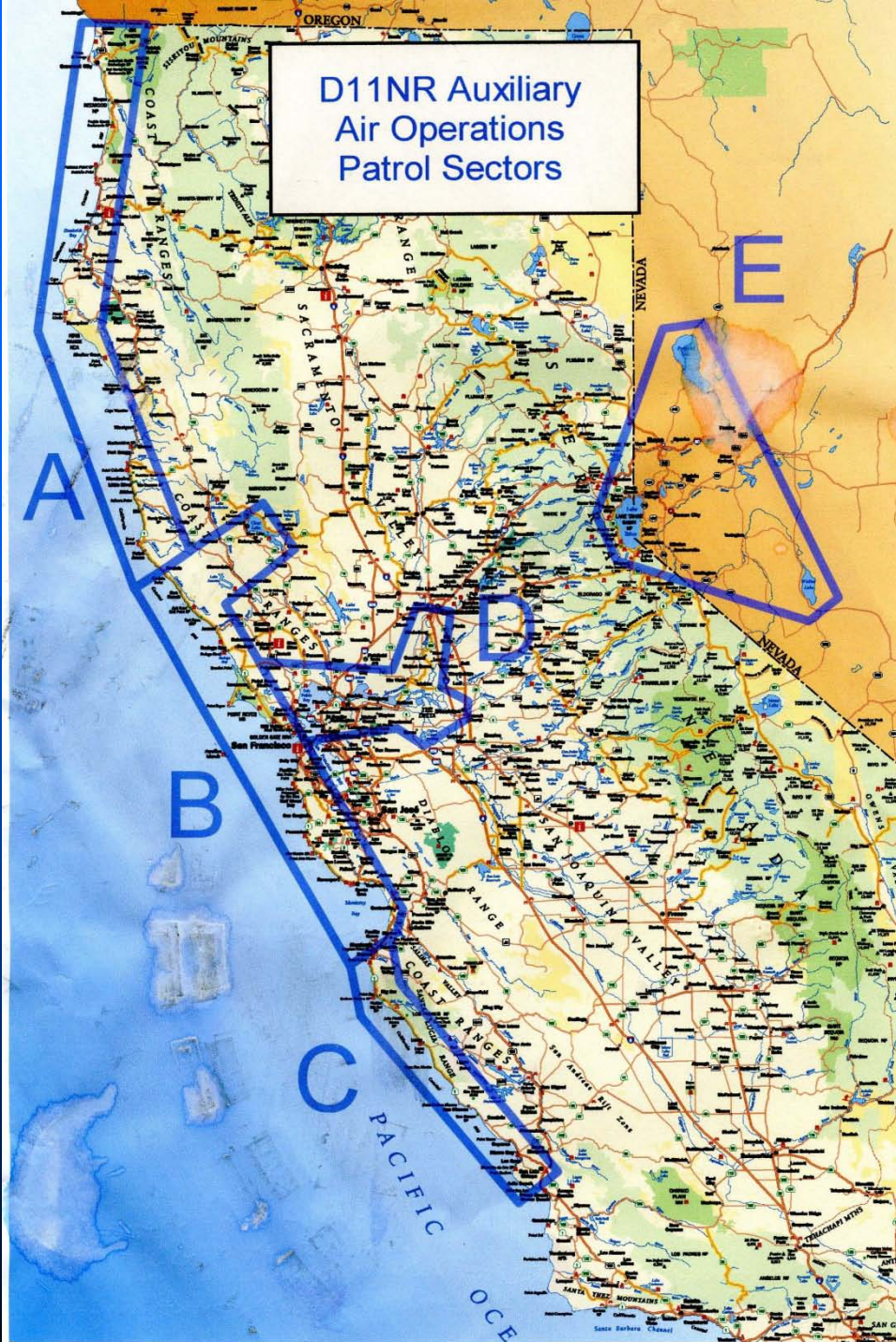


Introduction

- Squadron D-11N Sector Coverage
- District D-11N Organization
- Squadron D-11N Leadership
- Coast Guard Missions-Auxiliary
- Current Squadron Facilities
- Aviation Crew Qualifications
- Training Options
- Training Modules



D11NR Auxiliary Air Operations Patrol Sectors





District Organization

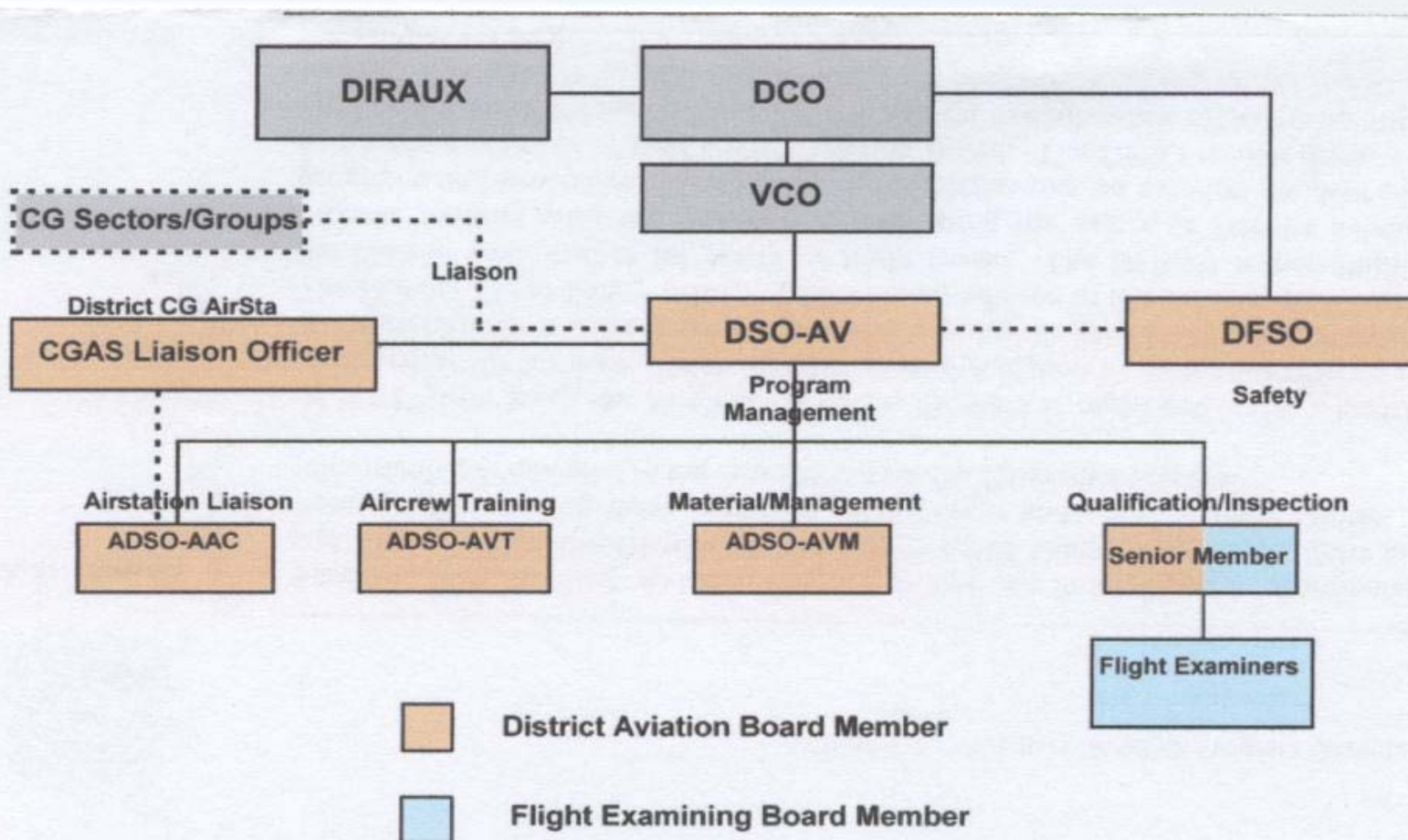


Figure 1-1
District Aviation Organization (Typical)



Current District/Squadron Staff

- Diraux-CDR. Sumrock
- District Commodore- Rodney Collins
- District Vice Commodore-Richard Thomas
- DSO-AV (aviation)-Larry Olson
- CGAS Liaison Officer-LT. Marshal Burtt
- DSFO (flight Safety)-Randy Parent
- ADSO-AAC(AS Coordination)AAC-Doug Kerr



District Staff (cont.)

- ADSO-AVT (training)-Gene Wheeler
- ADSO-AVM (materials)-Leo Gross
- Qualification/Inspection
 - Facilities-John Thielan
 - Flight Examiners
 - » Gene Wheeler
 - » Hal Seibert



Auxiliary Aviation Missions

- Marine Domain Awareness
- Marines Safety (inc. SAR)
- ATON-Aids to Navigation
- Homeland Security-ports, waterways, Coastal Security
- Interagency Support-NOAA
- Logistics-transport of people & material
- Training



Training Program*

- Aviation Crew Requirements -all entering the Aviation Program
 - Observer
 - Air Crew
 - Pilots
- All aviation crew members must pass a physical exam- either Flight Crew Medical Screening or hold a FAA medical certificate .



U.S. Department of
Homeland Security

United States
Coast Guard



Auxiliary Qualifications

The "How To Guide" for getting ahead in the Auxiliary

This guide will provide information on completing the following qualifications:

- Air Crew
- Air Observer
- Auxiliary Cutterman
- Auxiliary Operations- specialty courses
- Auxiliary Procedures Course
- Boat Crew
- Coxswain
- Incident Command System
- Instructor
- Marine Safety
- Public Affairs Specialist
- RBS/Program Visitor (PV)
- Telecommunications Specialist
- Vessel Examiner (VE)
- Uniforms
- Reference

<http://www.cgaux.org/training/PDF/MemberTrain-QualGuide-09.pdf>

Handout Available



Auxiliary Qualifications

Date Completed	Requirement/Task	Reference
<i>1st Level - Air Observer (prerequisites)</i>		
	Achieve BQ status.	1
	Pass ICS 100 & ICS 700 courses.	8
<i>Air Observer Requirements</i>		
	Prior to first flight as an "Observer Trainee", demonstrate ability to swim 75 yards (may wear an inflatable PFD).	6, 7
	Score 90% on the open book Observer Exam.	2, 7
	Under Orders, participate as an "Observer Trainee" in missions totaling 10 hours.	7
	Successfully complete all items on the Observer Check List. (Each After Action Report should include all observer tasks completed on that mission).	7
	Pass AUXCOM specialty course or demonstrate aircraft radio communication proficiency.	7
	Submit a DO security package	



Air Crew Position


<i>Air Crew Requirements</i>		
	Hold a current FAA 3rd Class Medical or physician's equivalent.	7
	Score 90% on the Pilots Exam (Open Book).	7
	Successfully pass ICS-200, ICS-800, and ICS-210 courses.	8
	Complete Air Crew training syllabus or possess a FAA Airman's Certificate	7
	Complete regional area familiarization training.	7

t Guard Auxiliary

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All Air Crews must Annually Complete:

ALL AIR CREWS MUST ANNUALLY COMPLETE:		
	Emergency egress training.	7
	75 yard swim test.	7
	Water survival training – includes successfully boarding a raft. All aircrew flying offshore must complete Air Station sponsored wet drills.	7
	Attendance at the annual required Air Operations Workshop.	7
	Auxiliary Pilots wear Aviator wings. 	



Initial Requirements For All Candidates

- BQ-Basic Qualified
- Complete Incident Command System (ICS)Courses- 100 & 700
- Complete Observer Syllabus- “All candidates for any Flight Crew position , Pilot, Air Crew, or Observer, must complete the Observer syllabus during their initial training “(ref. AV-06-01).



Initial Syllabus Segments (All aviation candidates)

- Mission Planning/Performance
- Communication
- Navigation
- Emergencies
- Flight Observation
- Flight Experience



Initial (Observer) Syllabus*

US COAST GUARD AUXILIARY – NATIONAL AVIATION AIR OBSERVER SYLLABUS		24 APR 2006			
CANDIDATE:		DATE:			
MEMBER #:		EVALUATOR:			
District/Division/Flotilla _____ / _____ / _____		MEMBER #:			
ITEM		PERFORMANCE/Date	SAT/UNSAT		
I. MISSION PLANNING /PERFORMANCE Demonstrate ability to:			S	U	n/a
1. keep appropriate records					
2. make pertinent observations and write post-mission reports					
3. use and understand emergency equipment					
4. use safety equipment					
5. identify characteristics of vessels in distress					
6. understand crew organization and duties					
7. understand concepts of Maritime Domain Awareness					
8. understand use of Risk Assessment Matrix					
II. COMMUNICATIONS Demonstrate ability:					
1. to identify various CG and Auxiliary units and call signs					
2. to communicate with and direct surface vessels to a datum					
3. to change guard stations					
4. to communicate by radio, including SITREP, "Ops Normal", Initial and End of Mission Calls					
SAR COMMUNICATIONS Demonstrate ability:					
1. to communicate search patterns between pilot and ground units					
2. to communicate with vessels in distress					
3. to understand search pattern selection					
III NAVIGATION Demonstrate ability					
1. to navigate from aeronautical sectional charts					
2. to locate/transfer a datum between sectionals/marine charts					
3. to locate nearest airport and direct the pilot to its location					
4. to plot a course to a given lat/long					
5. to communicate chart information to flight crew					
6. to coordinate search pattern legs and timings with the pilot					
IV EMERGENCIES Demonstrate					
1. knowledge of location and use of emergency equipment					
2. Ability to properly egress an aircraft					
3. Procedures for emergencies					
4. Emergency communications – internal and external					
V FLIGHT OBSERVATION					
1. Identify waterway features and vessel traffic					
2. Demonstrate ability to properly use binoculars and cameras					
3. Maintain situational awareness					
4. Maintain good observation technique, both surface and air					
5. Identify characteristics of oil spills					
6. Demonstrate knowledge of surface/air and air/surface signals					
7. Demonstrate knowledge of wind/sea states and direction					
VI FLIGHT EXPERIENCE					
1. Successfully complete 10 flight hours on missions as Observer Trainee					
INITIAL AIR OBSERVER REQUIREMENTS COMPLETED SATISFACTORILY YES NO		FP/AC Signature Mem #			Dist / Div / Flot



Pilot Qualifications-overview

■ Pilot Classifications

- Co-pilot-200 hrs PIC
- First Pilot-500 hours PIC, SAR checkout
- Aircraft Commander-1000 hours w/Instrument Rating, SAR checkout

■ Pilot Missions

- Aircraft Commander-/all missions
- First Pilot-all except IFR and Personnel
- Co-pilot-some limitations



Pilot Qualifications

- Pre-Flight Planning
- Ground Procedures
- SAR/Operational Procedures
 - Planning
 - Execution
- Approaches and Landings
- In flight emergencies
- CRM/Communications



Pilot Syllabus

US COAST GUARD AUXILIARY – NATIONAL AVIATION PILOT SYLLABUS 10 MAR 2005

USCG AUXILIARY PILOT QUALIFICATION CHECK					
PILOT:		PIC TIME:		DATE:	
MEMBER #:		FLIGHT EXAMINER:			
District/Division/Flotilla / /		MEMBER #:			
ITEM	REQUIRED	REMARKS			
		PERFORMANCE	SAT/UNSAT		
			S	U	n/a
I. PRE-FLIGHT PLANNING					
A. MISSION PLANNING	all				
B. PRE-FLIGHT BRIEF/ RISK MATRIX	all				
C. WEIGHT AND BALANCE	all				
II. GROUND PROCEDURES					
A. START PROCEDURES/MALFUNCTIONS	all				
B. RUN-UP/CHECKLISTS	all				
D. TAXI/TAKEOFF	all				
III. SAR/OPERATIONAL PROCEDURES					
A. PLANNING	FP & AC				
1. AIR- SURFACE SIGNALS	FP & AC				
2. SURFACE-AIR SIGNALS	FP & AC				
3. WIND/SEA STATE	FP & AC				
4. EMERGENCY PROCEDURES – Egress/Ditching	FP & AC				
5. SEARCH PATTERN CHOICE	FP & AC				
6. VESSEL IDENTIFICATION	FP & AC				
B. EXECUTION	FP & AC				
1. ORBITING SURFACE OBJECT	FP & AC				
2. SEARCH PATTERNS	FP & AC				
PARALLEL	FP & AC				
SECTOR	FP & AC				
EXPANDING SQUARE	FP & AC				
CREEPING LINE	FP & AC				
IV. APPROACHES AND LANDINGS					
B. NORMAL LANDING	all				
C. MISSED APPROACH	all				
D. INST. APPROACH (PRECISION - NON-PRECISION)	AC				
E. HOLDING	AC				
V. INFLIGHT EMERGENCIES					
A. ENGINE FAILURE	all				
B. COMM FAILURE	all				
C. INFLIGHT FIRE	all				
D. INSTRUMENT	all				
VI. GENERAL					
A. CRM – all phases of flight	all				
B. CREW COORDINATION	all				
C. COCKPIT MANAGEMENT	all				
D. CHECKLIST STANDARDIZATION	all				
E. COMMUNICATIONS – ATC	all				
F. COMMUNICATIONS – CG	all				
G. COMMUNICATIONS – LANDLINE	all				
ANNUAL STAN/SAR PROCEDURES FLIGHT REQUIREMENTS COMPLETED SATISFACTORILY YES ___ NO ___		EXAMINER'S SIGNATURE:			
		DIST/DIV/FLOT / /			



Training Options

- Individual Study supported by online references and Training modules (DVD)
- Mentoring by selected staff
- Classroom sessions
- Training Flights to demonstrate performance
- Final Signoff with First Pilot or Aircraft Examiner



Training Modules*

1. Introduction to Coast Guard Auxiliary Aviation-Squadron D-11N
 - Aviation Candidates Requirements
 - Aviation Syllabus/references- all crew
2. Squadron D-11N Operations overview
3. Patrol Logs-documentation-Skip Morford
4. Patrol Communications-Larry Johnson
5. Navigation-Skip Morford
6. Weather
7. Observer Training

* Modules under development



Training Modules (cont.)

8. Emergency Preparedness

9. Ditching & Water Survival

10. REVIEW PRIOR TO TEST, includes
SAR, flight Observations

*Modules under development



References including Links*

Auxiliary Qualifications

Reference Material

#	Publication Title	# or address
1	Aux Manual	Auxiliary Manual
2	Aux Operations Policy	Ops Policy Manual
3	Admin Procedures Course (APC)	APC Student Study Guide
4	Flotilla Procedures	Flotilla Procedures Guide
5	Division Guide	Division Procedures Guide
6	Aux Aviation Program	http://www.auxodept.org/aioperations.htm#cschool2008
7	Air Crew/Air Observer	http://www.auxodept.org/aioperations.htm#cschool2008
8	ICS	http://www.cgaux.org/training/TETraining.html#ICS
8a	ICS Defined	http://cgauxsurfaceops.us/ICS.htm
9	Boat Crew Training	COMDTINST M16794.51A
10	Boat Crew Qual	COMDTINST M16794.52A
11	Boat Crew Seamanship Manual	COMDTINST M16114.5C
12	Coxswain Qual	COMDTINST M16794.53A
12a	NavRules	http://www.navcen.uscg.gov/mwv/navrules/navrules.htm
13	Non-Std Boat	COMDTINST M16114.28
14	PWC Operator	COMDTINST M16794.54A
15	Instructor Training	http://www.cgauxed.org/elib/idc.htm
16	Instructor	http://www.cgauxed.org/elib/idc.htm
17	Program Visitor	http://safetyseal.net/training.asp
18	Vessel Examiner	http://safetyseal.net/training.asp
19	WatchStander	COMDTINST M16120.7A
20	Marine Safety WatchStander	Aux MS Watchstander (100102)

* key ones on Training DVD



References (cont.)

Auxiliary Qualifications

21	TelComQual	PQS
SPECIALTY COURSES		
22	AUXCOM	AuxCom.pdf
23	AUXNAV	AUXNAV Student Study Guide
24	AUXPAT	AuxPat.pdf
25	AUXSEA	AuxSea.pdf
26	AUXSC&E	Student Guide
27	AUXWEA	Student Study Guide
28	TCT	COMDTINST 1541.1
29	Aux National Testing Center	http://ntc.cgaux.org/



Facilities Squadron D-11N

2/1/2014

- 2 multiengine aircraft-offshore patrols –
Concord, Sacramento
- 1 helicopter-Hayward
- 6 single engine-2 Hayward, 2 Livermore, 1
South County, 1 Lincoln





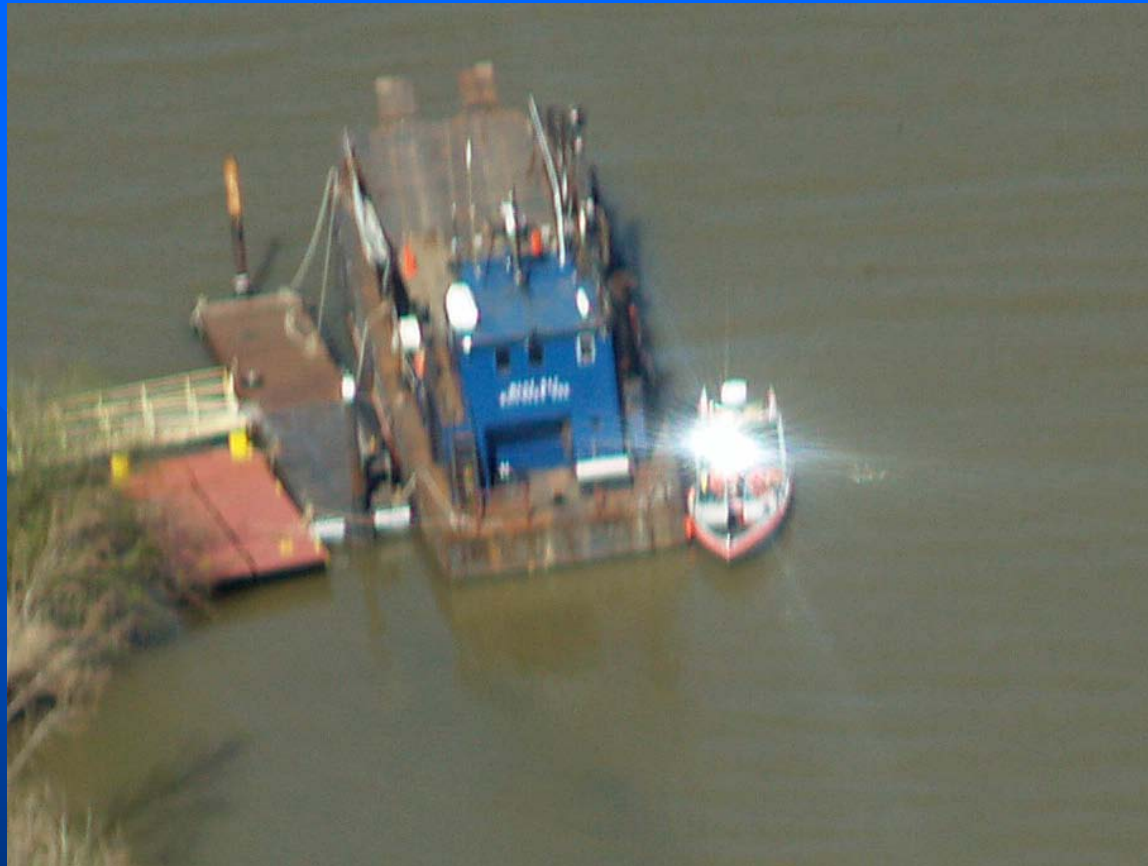




End of Introduction Activity Photos Follow



Trying to HIDE!!!



Doug Has it down now!

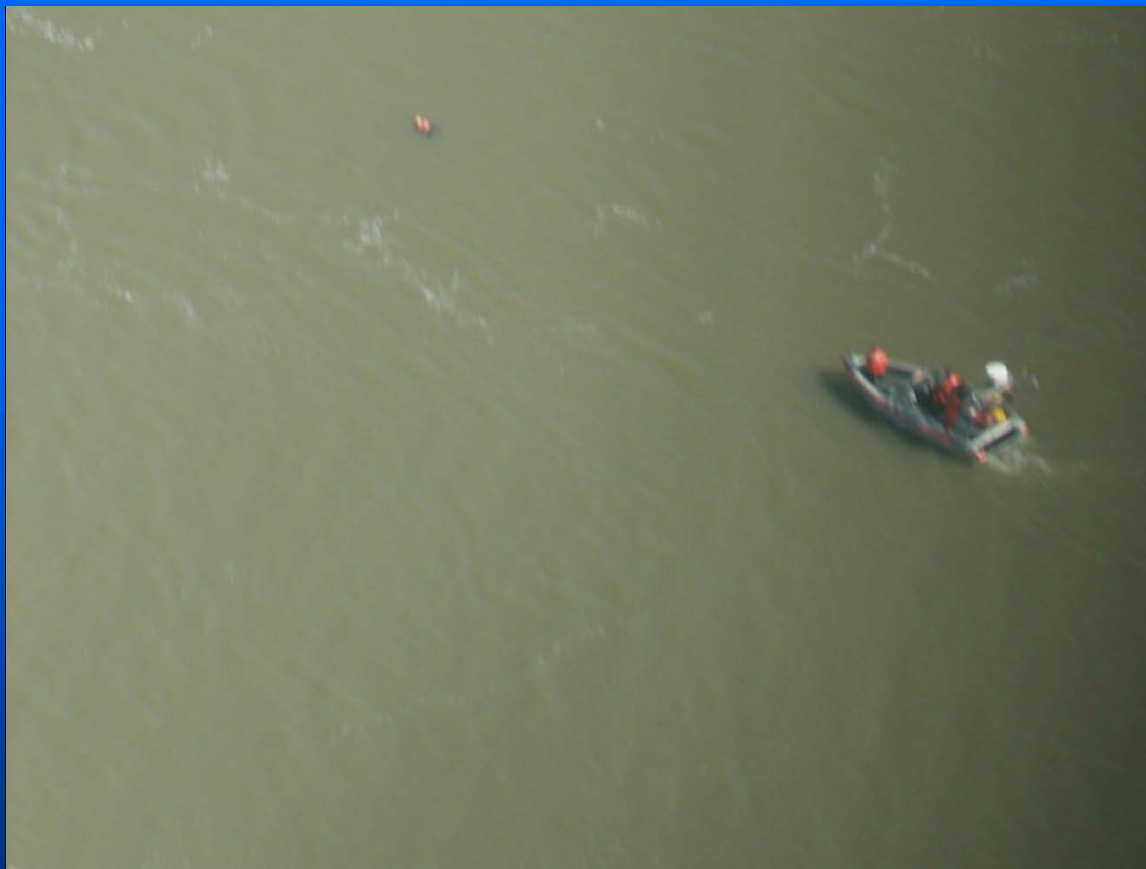
Can't beat the MIRROR



Underway to OSCAR



OSCAR-partially submerged



Vector to OSCAR

Can you spot OSCAR?



AIRCRAFT DOWN IN SAN PABLO BAY



GOLD SIDE SUPPORT-ATONS





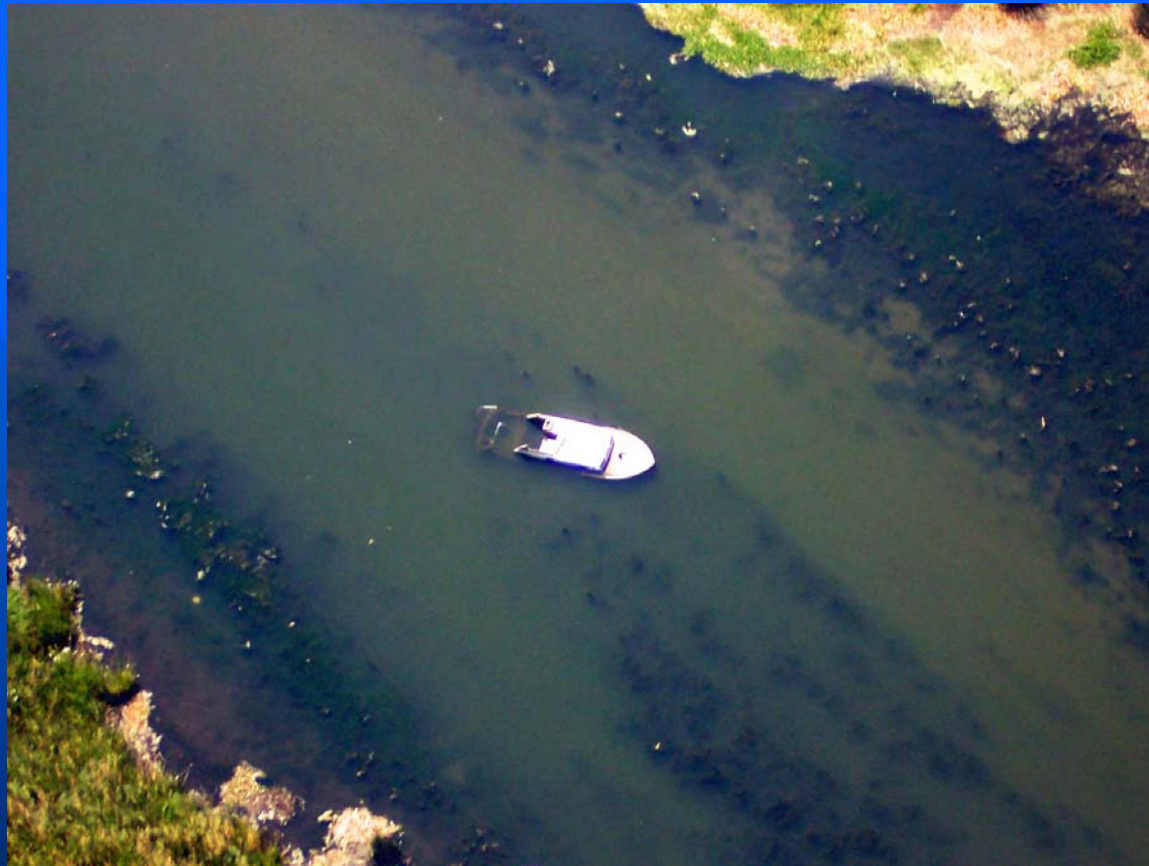
OIL Slick in Bodega Bay



Whales heading north



New Amity STUCK in San Pablo Bay

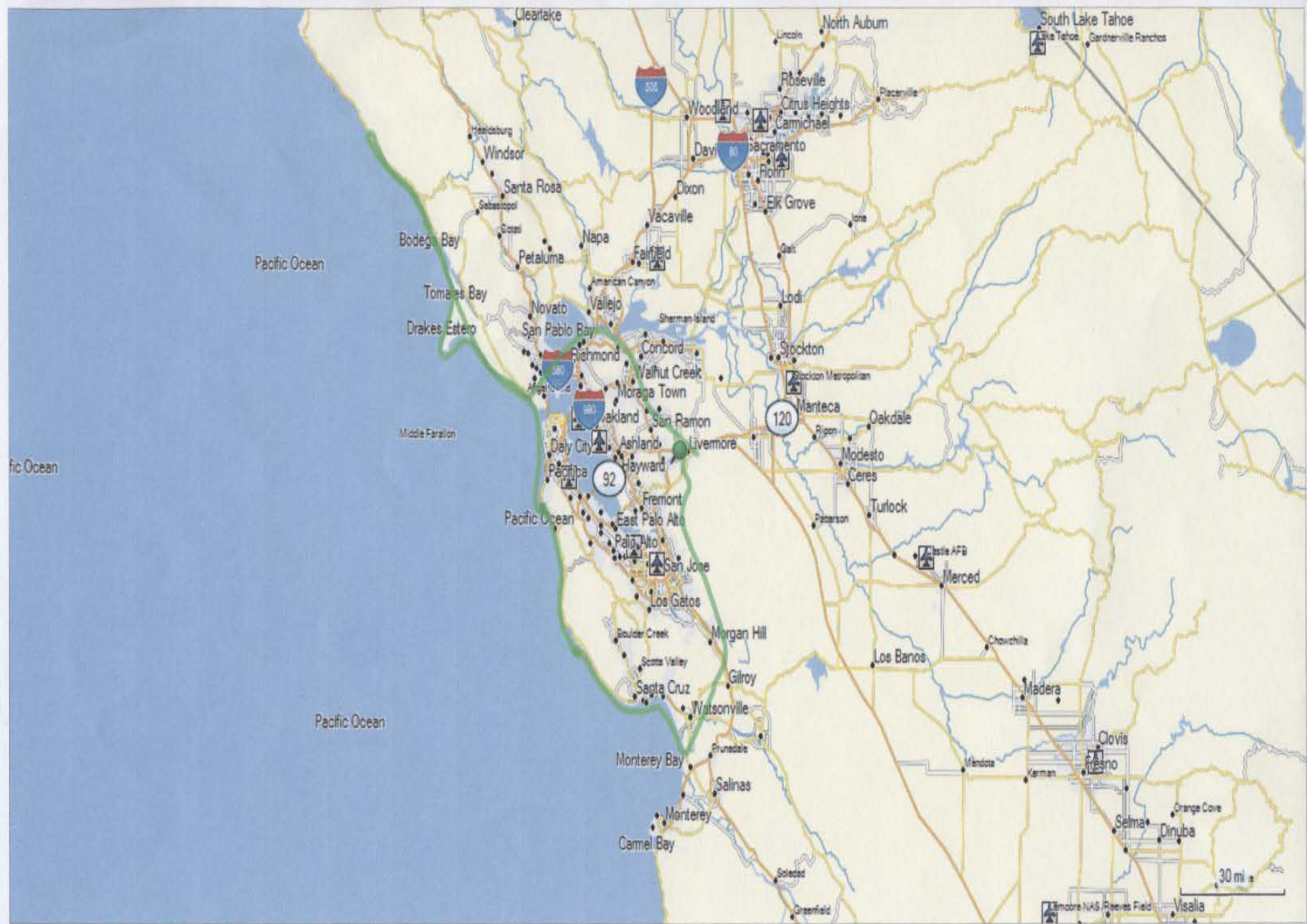


Boats abandoned in Delta





Bravo Patrol-GPS trace





Can't miss this!!

Mirror is very effective