



IAMSAR SOLUTIONS

AIR MARINE SEARCH & RESCUE

SAR TRAINING

SAR AERONAUTICAL AND
MARITIME SUBJECT MATTER
EXPERTS



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AIR MARINE SEARCH & RESCUE



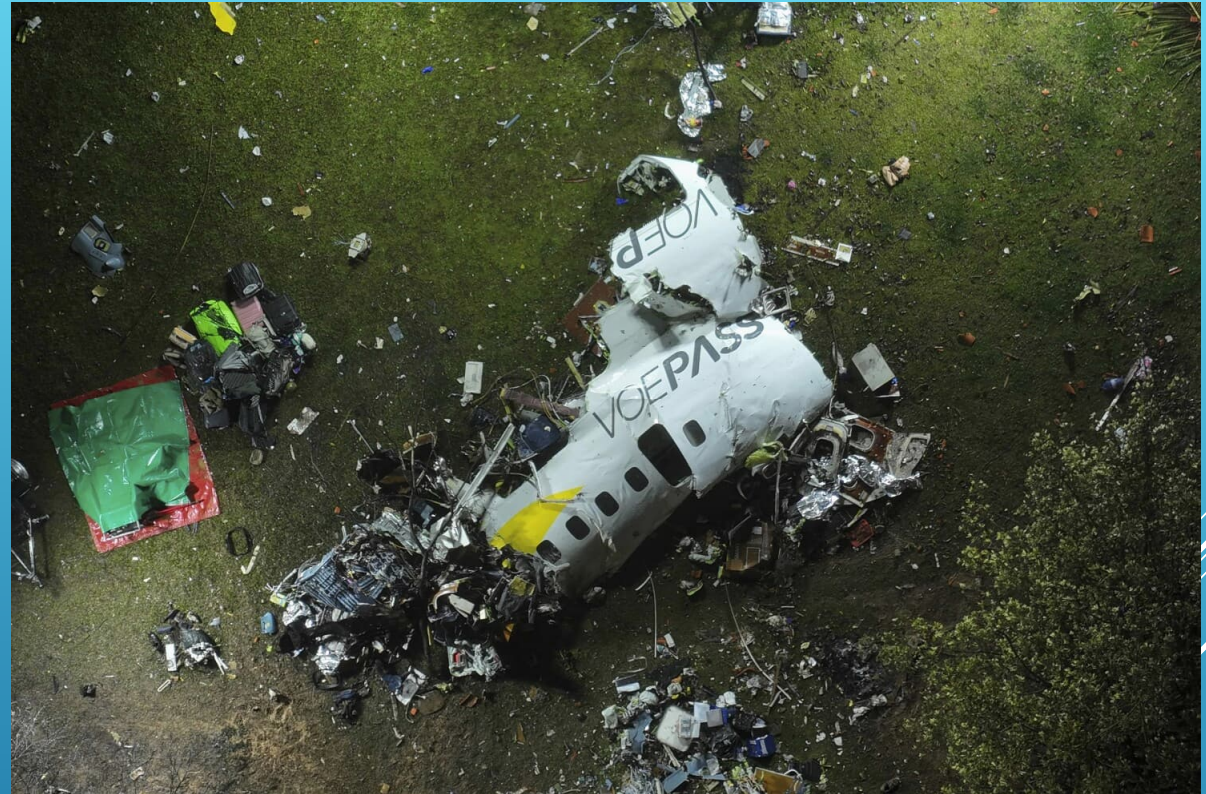
IAMSAR MANUAL VOLUME 2

SECTION 3.1.2

Experience has shown that the chances for survival of injured persons decrease by as much as **80%** during the first **24 hours**, and that those for uninjured persons diminish rapidly after the first **3 days**.

Following an accident, even uninjured persons who are apparently able-bodied and capable of rational thought are often **unable to accomplish simple tasks**, and are known to have hindered, delayed or even **prevented** their own rescue

- ▶ The Company
- ▶ Training
- ▶ Software
- ▶ Joint training



OUTLINE

- ▶ AERONAUTICAL/MARITIME SUBJECT MATTER EXPERTS
- ▶ CANADIAN JRCC SMC
- ▶ CANADIAN COAST GUARD SHIP CAPTAINS
- ▶ ROYAL CANADIAN AIR FORCE SAR PILOTS/AIR NAVIGATORS
- ▶ LEADING AUTHORITY ON SAR MATTERS
- ▶ CONSULT FOR GOVERNMENT AND PRIVATE CORPORATIONS
- ▶ DEVELOP INTERNATIONAL SAR STANDARDS
- ▶ NATIONWIDE SAR RESTRUCTURING PROGRAM.



WHO ARE WE?

WHO AM I??



Jean Houde, President and CEO IAMSAR Solutions Inc

Retired Royal Canadian Air Force C-130 Hercules SAR Air Navigator (34 years)

Flew 4,400 hours on the C-130 doing SAR

14 years at JRCC Trenton as Aeronautical SMC

3 years at CMCC Trenton as Cospas Sarsat duty operator

2 years as Course Director for Canadian SMC course

Chief Navigator instructor, Training Officer, Standards Officer, Officer-In-Charge

Since retirement:

Developed international SMC course, MSP, FSAR, OSC

Consulted towards national SAR restructuring efforts

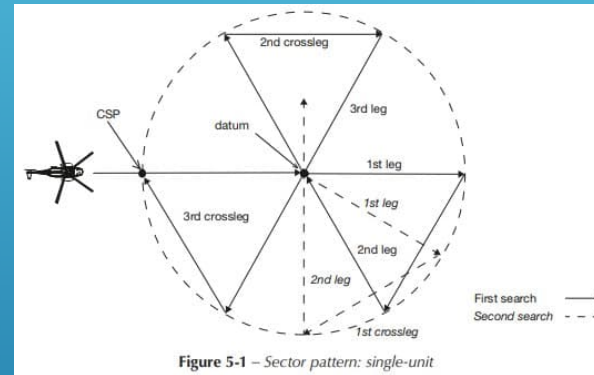
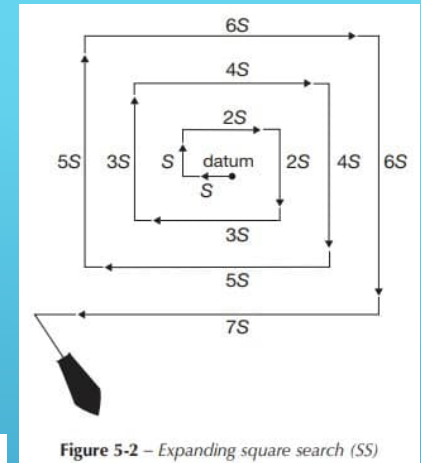
Trained Canadians, Americans, Germans, Kuwaitis, Jamaicans, Malaysians, Thai, Latvians, Dutch, Belgians, Emiratis, Qataris and more

Consulted in SAR for Canadian Coast Guard, Honeywell, MDA, General Dynamics, Airbus, TechnoSciences and other corporations

Pilot instructor ultralight aircraft and RPAS pilot advanced operations.




- ▶ SAR TRAINING
- ▶ SAR CONSULTING
- ▶ SAR SOFTWARE DEVELOPMENT
- ▶ NATIONAL SAR TRANSFORMATION PLAN
- ▶ SAR ACCIDENT FORENSIC ANALYSIS.



WHAT DO WE DO?



 National Defence
 Fisheries and Oceans Canada
 Canadian Coast Guard

B-GA-209-001/FP-001
DFO 5449

CAMSAR

CANADIAN AERONAUTICAL AND MARITIME SEARCH AND RESCUE MANUAL


Combined Edition – Volumes I, II and III

(ENGLISH)

Supplement to the IAMSAR Manual

Issued on the Authority of the Chief of the Defence Staff and
Commissioner Canadian Coast Guard

2020-09-30

Canada 

NOTICE
 This document has been reviewed by the technical experts and does not contain operational advice. Do not use this document as a substitute for the procedures and training instructions regularly reviewed and the equipment that is current in use.

Avertissement
 Cette documentation a été revue par l'expertise technique et ne contient pas de recommandations opérationnelles. Ne pas se baser sur cette documentation en remplacement des procédures et des instructions de formation régulières qui sont régulièrement mises à jour.

NATIONAL SEARCH & RESCUE MANUAL

2022 Edition





 Australian Government
 Australian Maritime Safety Authority





 International Standards
 and Recommended Practices

Annex 12 to the Convention on International Civil Aviation

Search and Rescue

This edition incorporates all amendments adopted by the Council prior to 24 February 2004 and incorporated, on 23 November 2004, all previous editions of Annex 12.

For information regarding the applicability of the Standards and Recommended Practices, see Foreword.

Eighth Edition
 July 2004

International Civil Aviation Organization

PUBLICATIONS



- ▶ ~ 500 RCCs worldwide
- ▶ ~ 80% still on map and paper logs
- ▶ ~ 80% of RCC SMCs never received any formal SAR training
- ▶ ~ 80% non-usage of IAMSAR manuals
- ▶ ~ 20% of RCCs not manned 24/7
- ▶ SMCs have very limited powers
- ▶ No clear qualification process for SMCs
- ▶ No job description or clear career path for SMCs
- ▶ Inadequate record keeping
- ▶ SAR response varies from non-existent to world-class.

OUR RESEARCH RESULTS



IAMSAR SOLUTIONS

AIR MARINE SEARCH & RESCUE

THE INTERNATIONAL SMC COURSE



MRCC/ARCC/JRCC/CAA/CG

- ▶ 15 TRAINING DAYS
- ▶ DELIVERED AT YOUR OWN LOCATION/ IN CANADA
- ▶ EXPERIENCED CANADIAN JRCC SMC INSTRUCTORS
- ▶ BASED ON IMO, ICAO AND CANADIAN STANDARDS
- ▶ **TAILOR MADE FOR EACH COUNTRY AND RESPONSIBILITIES**
- ▶ ACADEMIC, PRACTICAL SCENARIOS, SIMULATIONS
- ▶ USE OF LOCAL GEOGRAPHICAL AND TOPOGRAPHICAL FEATURES
- ▶ USE OF ACTUAL SRU LOCATION, CALLSIGN AND POSTURE
- ▶ REALISTIC SCENARIOS
- ▶ FREE USAGE OF A COMPUTERIZED MMS
- ▶ PASS/FAIL COURSE WITH EXAMINATIONS (WRITTEN AND PRACTICAL)
- ▶ SEE A TYPICAL JRCC SMC SAMPLE SCHEDULE

2024-2025 SAMPLE SMC COURSE SCHEDULE

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
830-915	INTRODUCTION	AVIATION ENGLISH AND TERMINOLOGY	THE SMC	COMMUNICATIONS SEARCH	HELO BRIEFING AND AIRCRAFT VISIT
930-1015	THE SAR SYSTEM		COSPAS-SARSAT	INTERVIEWING TECHNIQUES	
1030-1115		AVIATION WEATHER		AERONAUTICAL INCIDENTS	
1230-1315	SAR IN CANADA	RULES/REGULATIONS	BASIC SAR OPS	AERONAUTICAL SEARCH PLANNING	SMMS INTRO/LOG
1330-1415		ICAO FLIGHT PLAN		AIRBORNE REPORT 1	LOGGING PRACTICAL
1430-1515	IAMSAR 1-3 ICAO XII			AIRBORNE REPORT 2	AIRBORNE REPORT 2
TO 1600	OPEN BOOK EXAM				

	DAY 6	DAY 7	DAY 8	DAY 9	DAY 10
830-915	GMDSS	MARITIME BRIEFING AND BOAT VISIT	FIXED WING BRIEFING AND AIRCRAFT VISIT	EFFORT ALLOCATION	CASE STUDY C-FEXV
930-1015	MARITIME INCIDENTS			LEGAL BRIEFING	GADSS
1030-1115	MARITIME SEARCH PLANNING	SMMS SEARCH AREAS	AIR TRAFFIC SERVICES BRIEFING AND VISIT	CESM/CASE STUDY PLB	TECHNOLOGY & SEARCHING/ ADS-B
1230-1315	SAR SRU	SMMS TASKING AREAS		LOST PERSON BEHAVIOUR	
1330-1415		SMMS UTILITIES		DEALING WITH NEXT OF KIN	OSC/ACO
1430-1515	FLARE SIGHTINGS	TASKINGS			

	DAY 11	DAY 12	DAY 13	DAY 14	DAY 15
830-915	INTERACTIVE REVIEW	SIMULATIONS	SIMULATIONS	SIMULATIONS	COURSE CRITIQUE
930-1015					PERFORMANCE REVIEW
1030-1115					COURSE REPORT
1230-1315	EXAM-THEORY	EXAM DEBRIEF			CERTIFICATES CLOSING COMMENTS
1330-1415	EXAM-PRACTICAL				
1430-1515					

Each SMC course schedule is tailor-made for the receiving audience and their SAR area of responsibility

Academic instruction
 Practical exercises
 Examinations
 Visits to SAR stakeholders
 Local guest speakers
 Simulations
 Certificates

AVIATION TRAINING MODULE



- 5-DAY COURSE
- PRECEDES SMC COURSE
- FOR JRCC AND ARCC
- BASIC PILOT GROUND SCHOOL TRAINING

AVIATION MODULE



	MON	TUE	WED	THU	FRI
900-945	INTRODUCTION	Review: METARS and TAFS / Flight Plans	Review: METARS and TAFS / Flight Plans	Review: METARS and TAFS / Flight Plans	Open Book Review / Interactive Final Exam Review
1000-1045	Theory of Flight: Aircraft Design	Meteorology: Atmospheric cooling and heating	Meteorology: Clouds	Meteorology: Wind	
1100-1145	Meteorology: METARS and TAFS	Meteorology: Pressure/Moisture	Theory of Flight: Aircraft Stability and Stalls	Aircraft Engines / Propulsion	Final Exam Aviation module
1300-1345	Theory of Flight: Flight controls	Flight Procedures: Airspace / VFR / IFR Flight	Meteorology: Stability and Instability	Aircraft Engines / Propulsion	EXAM CORRECTION
1400-1445	Flight Procedures: Aerodromes	Theory of Flight: Forces Acting on an Aircraft	Meteorology: Turbulence / Visibility / Fronts	Meteorology: Extreme Weather	FINAL EXAM REVIEW AND DEBRIEF
1500-1600	Flight Procedures: Flight Plans	Radio: VHF/HF	Regional aviation and airspace structure	Helicopters	Overview of SMC course
TO 1700	OPEN BOOK EXAM				



▶ <https://www.youtube.com/watch?v=5dsPpSdSqu0>

SAR SOFTWARE- IMSAR

- ▶ CLOUD-BASED
- ▶ ON PREMISES INSTALLATION
- ▶ INEXPENSIVE
- ▶ SHARING OF INFORMATION
- ▶ COMPLETE RECORD KEEPING
- ▶ USED DURING SMC COURSES FOR PRACTICAL/ SIMULATIONS.

IMSAR

JOINT SMC TRAINING

- All EUR APAC countries
- Central location (Canada or in Europe)
- 1-2 reps per State, maximum 8-10 at most per course
- Share the cost
- Train all to same standard
- Q4 2024 (late Nov) or Jan 2025
- 15-days SMC plus 5-day Aviation training
- Start making a difference
- Score better on audits
- Start organic training internally towards self-sufficiency
- Free use of IMSAR software
- IAMSAR Solutions SMC certification.



QUESTIONS?