## **ABBREVIATIONS**

**NOTE:** The abbreviations are listed alphabetically in the first column, with the French equivalent in brackets. Bold characters indicate that the abbreviation is the same in both languages.

1 CAD (1 DAC)

1 Canadian Air Division

A3 TSR

A3 Transport and SAR Readiness

(A3 Disp Op Tpt/SAR)

**ACC** 

area control centre

AOC (COA)

air operations centre

**AGL** 

above ground level

**AMVER** 

Automated Mutual Assistance Vessel Rescue System

**ASCC** 

Air Standardization Co-ordinating Committee

ATC

air traffic control

BC

bottom current

 $\mathbf{C}$ 

coverage factor

**CANSARP** 

Canadian Search and Rescue Planning Program

**CAS** 

co-ordinator aeronautical search

CAS (CEMFA)

Chief of Air Staff

CASARA (ACRSA)

Civil Air Search and Rescue Association

(also see SERABEC)

**CASP** 

Computer Assisted Search Planning system

(United States Coast Guard)

CCG (GCC)

Canadian Coast Guard

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CCGA (GCAC) Canadian Coast Guard Auxiliary

CF (FC) Canadian Forces

CFB (BFC) Canadian Forces Base

CFS (SFC) Canadian Forces Station

CFSRS (RRSFC) Canadian Forces Supplementary Radio System

CGFO (OFGC) Coast Guard Fleet Order

CMCC Canadian Mission Control Centre

OA (LO) Oceans Act

COSPAS "Kosmicheskaya Sistyema Poiska Avariyny Sudov"

(Russian for: Space system search for distressed

vessels.)

CPI (IPC) crash position indicator

CSA (LMMC) Canada Shipping Act

**CSAD** Canadian Search Area Definition

CSS co-ordinator surface search

CVTS (—) Co-operative Vessel Traffic Services

**CW** continuous wave

**D** total drift

d<sub>a</sub> aerospace trajectory

D Air FE 3 (DEF Air 3) Directorate of Air Force

Employment 3

de individual drift error

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 $\mathbf{D_e}$  total drift error

d<sub>e minimax</sub> minimax drift error

**DF** direction finder

DFO (MPO) Department of Fisheries and Oceans

DG (DG) Director General

**DMB** datum marker buoy

DND (MDN) Department of National Defence

d<sub>p</sub> parachute drift

DR (—) dead reaconing

d<sub>s</sub> sinking drift

DSC (ASN) digital selective calling

E total probable error

**ECAREG CANADA** Eastern Canada Traffic Zone Regulations

EGC (AGA) enhanced group call

**ELT** emergency locator transmitter

EPIRB (RLS) emergency position-indicating radio beacon

ETA (HPA) estimated time of arrival

ETD (HPD) estimated time of departure

 $\mathbf{f_f}$  crew fatigue correction factor

**FLIR** forward-looking infra-red

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**FM** frequency modulated

**f**<sub>s</sub> optimal search factor

**FSS** flight service station

**f**<sub>v</sub> search aircraft speed correction factor

 $\mathbf{f}_{\mathbf{w}}$  weather condition correction factor

**GEOREF** geographic reference system

**GHz** gigahertz

GMDSS (SMDSM) Global Maritime Distress and Safety System

**GPS** Global Positioning System

GRS (SRG) General Radio Service

GRT (TJB) gross register ton or tonnage

**HF** high frequencies (3 to 30 MHz)

HQ (QG) headquarters

ICAO (OACI) International Civil Aviation Organization

ICSAR (CIRES)

Interdepartmental Committee on Search and Rescue

IMO (OMI) International Maritime Organization

Inmarsat International Mobile Satellite Organization

IRB (ESC) inshore rescue boat

JETS Joint Enroute Terminal System

kHz kilohertz

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LC lake current

**LKP** last known position

LM SAR (—) Lead Minister for Search and Rescue

Loran LOng RAnge Navigation

LSC long shore current

LUT local user terminal (satellite tracking station)

**LW** leeway

M nautical mile

MAJAID (CATAIR) major aeronautical disaster

MANOT missing aircraft notice

MARB (—) maritime assistance request broadcast

MARLANT [FMAR (A)] Maritime Forces Atlantic

MARPAC [FMAR (P)] Maritime Forces Pacific

MCC mission control centre

MCTS (SCTM) Marine Communications and Traffic Services

MCTSO (OSCTM) Marine Communications and Traffic Services Officer

MCW modulated continuous wave

medevac medical evacuation

MF medium frequencies (300 to 3000 kHz)

MHz megahertz

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MRSC maritime rescue sub-centre

MSI maritime safety information

MVFR Mountain Visual Flight Rules

N/A (s/o) not applicable

NATO (OTAN) North Atlantic Treaty Organization

NBDP (IDBE) narrow-band direct-printing telegraphy

NDHQ (QGDN) National Defence Headquarters

NDOC (CODN) National Defence Operations Centre

NIF (FNI) new search and rescue initiatives fund

**NOCL** notice of crash/casualty location

NOK (—) next-of-kin

**NORAD** North American Air Defence

NORDREG CANADA Arctic Canada Traffic System

**NOTAM** notice to airmen

NSM (MSN) National Search and Rescue Manual

NSP (PNRS) National Search and Rescue Program

NSS (SNRS) National Search and Rescue Secretariat

NVGs (—) night vision goggles

OBS (BSN) Office of Boating Safety

OIC (—) Officer in Charge

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**OSC** on-scene commander

PEP Provincial Emergency Program

(volunteer organization in British Columbia)

**PIW** person in water

PLB personal locator beacon

**POB** persons on board

**POC** probability of containment

**POD** probability of detection

Radar RAdio Detection And Ranging

RC river current

RCAF (ARC) Royal Canadian Air Force

**RCC** rescue co-ordination centre

RCMP (GRC) Royal Canadian Mounted Police

RD (DR) Regional Director

RSER (SSIE) Rescue, Safety and Environmental Response

RSMS (RRSM) Regional Supervisor, Maritime Search and Rescue

S track spacing

**SAR** search and rescue

**SAREX** search and rescue exercise

SARSAT Search and Rescue Satellite-Aided Tracking

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SARSUM (—)

search and rescue summary

**SART** 

search and rescue (radar) transponder

SAR Tech (SAR Tec)

Search and Rescue Technician

SC

sea current

**SERABEC** 

"Sauvetage et recherches aériens du Québec"

(also see CASARA)

**SICOFAA** 

"Sistema de Cooperation Fuerzas Aereas Americanas"

(Spanish for:

System of co-operation among the American Air Forces.)

**SITREP** 

situation report

**SKAD** 

survival kit air droppable

**SLDMB** 

self-locating datum marker buoy

SM(-)

searchmaster

**SMC** 

search and rescue mission co-ordinator

**SOLAS** 

International Convention of the Safety of Life at Sea, 1974

SOPs (IPO)

standard operating procedures

**SRR** 

search and rescue region

**SRU** 

search and rescue unit

**SURPIC** 

surface picture

TC

tidal current

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TSB (BST) Transport Safety Board—working title for the

Canadian Transportation Accident Investigation Safety Board

(CTAISB)

TWC total water current

U wind speed in knots

UHF ultra high frequencies (300 to 3000 MHz)

UNSAR unnecessary search and rescue alert

US (—) United States

**USAF** United States Air Force

USCG United States Coast Guard

UTC Co-ordinated Universal Time

VFR visual flight rules

VHF very high frequencies (30 to 300 MHz)

VTS (STM) vessel traffic services

W sweep width

WC wind driven current

W<sub>u</sub> uncorrected sweep width

X initial position error

Y search and rescue facility position error

## **GLOSSARY**

**NOTE:** The terms are listed alphabetically in bold characters in the first column. The French equivalent is indicated between quotation marks in italics, at the end of the definition.

**Aeromedical evacuation** A Canadian Forces (CF) term meaning the medical evacuation by

CF aircraft of service personnel from one facility to another.

"évacuation aéromédicale"

**Aeronautical incident** A search and rescue incident involving an aircraft.

"incident aéronautique"

Casualty staging area An intermediate forward location where a large number of

survivors can be treated prior to evacuation to appropriate medical

facilities.

"aire de rassemblement des blessés"

Combat support squadron A Canadian Forces (CF) squadron established to provide search

and rescue service and other support to specified CF formations.

"escadron de support au combat"

Confirmed SARSAT position

a. a 121.5/243.0 MHz SARSAT position which has been confirmed either by

at least two different satellite passes, or

 one satellite pass with another outside source such as an aircraft report, or

b. a 406 MHz SARSAT location for an operationally coded distress beacon.

"position SARSAT confirmée"

Co-ordinated SAR system The combined facilities, equipment and procedures established in

each search and rescue region to provide the response to search

and rescue incidents.

"système SAR coordonné"

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Co-ordinator surface search (CSS) A vessel, other than a search and rescue unit, designated to coordinate surface search and rescue operations within a specified search area.

"coordonnateur des recherches en surface"

COSPAS-SARSAT

International organization which operates one of the satellite distress beacon alerting systems.

"COSPAS-SARSAT"

**DATUM** 

The most probable position of a search object, corrected for drift, at any specific time.

"point de repère ou DATUM"

Datum marker buoy

(DMB)

Droppable floating beacon used to determine actual sea current, or to serve as location reference.

"bouée-repère électronique"

**Disabled** 

A situation wherein a vessel or aircraft afloat and not in distress or potential of distress, has lost all means of propulsion, steering or control to such a degree as to be incapable of proceeding to safety without assistance.

"désemparé"

**Distress** 

A search and rescue incident where there is a reasonable certainty that one or more individuals are threatened by grave and imminent danger and require immediate assistance.

"détresse"

Distress beacon

A generic term used to describe any emergency locator transmitter (ELT), emergency position-indicating radio beacon (EPIRB) or personal locator beacon (PLB).

"balise de détresse"

**Ditching** 

The forced landing of an aircraft on water.

"amerissage forcé"

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#### Duckbutt

An airborne standby posture carried out by Canadian Forces aircraft to provide navigation or other assistance to aircraft during specific operation.

"duckbutt"

### Forward operations base

A base, located as close as possible to an incident site, which is capable of handling large aircraft and has sufficient facilities (with augmentation, if necessary) to support a major aeronautical disaster operation.

"base avancée des opérations"

## Ground search and rescue incident

Any incident not otherwise classified as an aeronautical or maritime incident and involving missing persons or persons in distress.

"incident de recherche et sauvetage au sol"

#### **Humanitarian Incident**

A Humanitarian Incident is a search and rescue (SAR) incident (not aeronautical or Maritime) that requires a response by the SAR System

"incident humanitaire"

## Major aeronautical disaster

An aircraft incident occurring in Canada which, because of the number of people involved, requires augmentation of established

(MAJAID)

search and rescue resources. "catastrophe aéronautique"

## Major search and rescue operations

- Aeronautical and maritime search and rescue incidents where primary maritime and/or primary aeronautical search and rescue units are tasked on an incident for more than four calendar days;
- Incidents which the search and rescue region commander assesses as being potentially sensitive; or
- Special cases, as directed by the National Defense Headquarters.

<sup>&</sup>quot;opérations majeures de recherche et sauvetage"

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#### Maritime incident

A Maritime incident is a search and rescue (SAR) incident on the water involving a vessel or person(s) from a vessel, including the medical evacuation (medevac) of persons(s) from a vessel.

**MI Distress** – A person or persons are threatened by grave and imminent danger and require immediate assistance.

### M3 Situation resolved in the uncertainly phase-such as:

- a disabled vessel in no immediate danger, or
- a disoriented or lost vessel in no immediate danger, or
- other related incident involving a vessel with no person on board.

"incident maritime"

# Medical evacuation (medevac) —critical

The critical evacuation of injured or stranded persons from isolated areas or the recovery of sick or critically injured persons from vessels at sea.

"évacuation médicale critique"

### Medical evacuation (medevac) —routine

The routine medical evacuation of patients or vital medical resources from one medical facility to another (aeronautical or maritime ambulance service).

"évacuation médicale de routine"

#### **NAVTEX**

Telegraphy system for transmission of maritime safety information, navigation and meteorological warnings and urgent information to ships.

"NAVTEX"

## On-scene commander (OSC)

The commander of a search and rescue unit designated to co-ordinate search and rescue operations within a specified Search area.

"commandant sur place"

#### Other search and rescue

Resources other than primary or secondary which participate in search and rescue activities when required. This includes civilian agencies, volunteers and partially Federal Government funded resources such as the Canadian Coast Guard Auxiliary and the Civil Air Search and Rescue Association.

"ressources de recherche et sauvetage—autres"

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## Primary search and rescue resources

Federal search and rescue (SAR) aircraft and vessels, including those multi-tasked to SAR, established and equipped specifically for SAR with SAR trained crews aboard. Primary SAR resources are under the direct operational control of the Search and Rescue Region Commander for SAR taskings.

"ressources primaires de recherche et sauvetage"

#### Ramp (or strip) alert

An increased standby posture maintained by Canadian Forces search and rescue forces during periods of increased Air Defence or other notable activity.

"alerte « aire de trafic » ou « piste d'envol »"

#### Rescue co-ordination

The function of integrating the efforts of search and rescue (SAR) facilities and resources to achieve concerted and harmonized resolution of SAR incidents in an effective and efficient manner.

"coordination des opérations de sauvetage"

### Rescue co-ordination centre (RCC)

A unit responsible for promoting efficient organization of search and rescue (SAR) services and for co-ordinating the conduct of SAR operations within an associated Search and Rescue Region.

"centre de coordination de sauvetage"

## Rescue sub-centre (RSC)

A unit subordinate to a rescue co-ordination centre established to complement the latter within a specific area within a Search and Rescue Region.

"centre secondaire de sauvetage maritime"

## Search and rescue (SAR)

Search and Rescue comprises the search for, and provision of aid to, persons, ships or other craft which are, or are feared to be, in distress or imminent danger.

"recherche et sauvetage"

## Search and rescue incident

A reported situation which requires a response from the search and rescue system. The rescue co-ordination centre (RCC) will assign an incident number whenever, as judged by the RCC, a response is made to the reported incident.

"incident de recherche et sauvetage"

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Search and rescue mission co-ordinator (SMC) The official temporarily assigned to co-ordinate response to an actual or apparent distress situation.

"coordonnateur de mission de recherche et sauvetage"

Search and rescue region (SRR)

An area of defined dimensions associated with a rescue coordination centre within which search and rescue services are provided.

"région de recherche et sauvetage"

Search and rescue region commander

The person designated by the Chief of Defence Staff and authorized by the *Canada Shipping Act* as being responsible for search and rescue operations within a Search and Rescue Region.

"commandant d'une région de recherche et sauvetage"

Search and rescue resource

A resource capable of responding to a search and rescue incident.

"ressource de recherche et sauvetage"

## Search and rescue response

An action required to resolve a situation, such as:

- the tasking of search and rescue units (singular or multiple);
- acting as search and rescue mission co-ordinator, the issuance of any "All Stations" communications (e.g. distress, urgency or marine assistance request broadcasts, etc.);
- extensive monitoring (when situation dictates) involving one half hour of working time; or
- investigations involving one half hour working time, to determine if a search and rescue incident is occurring.

Search and rescue unit (SRU)

A unit composed of trained personnel and provided with equipment suitable for the expeditious conduct of search and rescue operations.

"unité de recherche et sauvetage"

<sup>&</sup>quot;intervention de recherche et sauvetage"

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Searchmaster (SM)

An individual who has been appointed by a Search and Rescue Region Commander to co-ordinate and direct a specific search and rescue operation.

"chef des opérations de recherche"

Secondary search and rescue resources All resources of the Federal government that are not Primary search and rescue (SAR) but which may be tasked to aid in the resolution of a SAR incident.

"ressources de recherche et sauvetage secondaires"

Self-locating datum marker buoy (SLDMB) A datum marker buoy that determines its own position and includes the position information in the transmission of the beacon signal. These beacons usually transmit through satellite services.

"bouée-repère électronique émettant sa propre position"

Unknown incident

An incident which commences as a search and rescue incident of unknown type and the source of which is untraced.

"incident de source inconnue"

Unnecessary search and rescue alert (UNSAR) message A message sent by a rescue co-ordination centre to the appropriate authorities as a follow-up when the SAR system is unnecessarily activated by a false alert.

"message d'alerte inutile de recherche et sauvetage"

Vessel

Any displacement or non-displacement vehicle that uses water as a means of navigation.

"bateau"