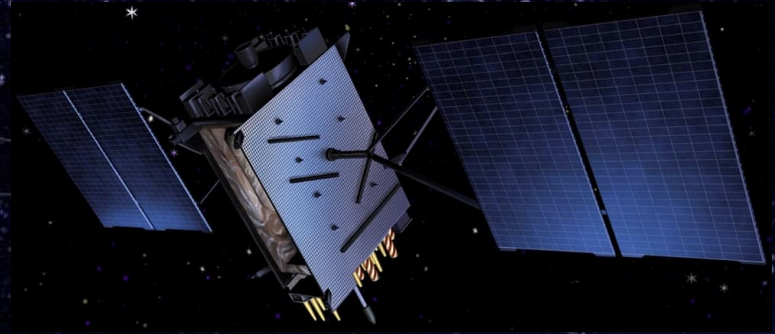
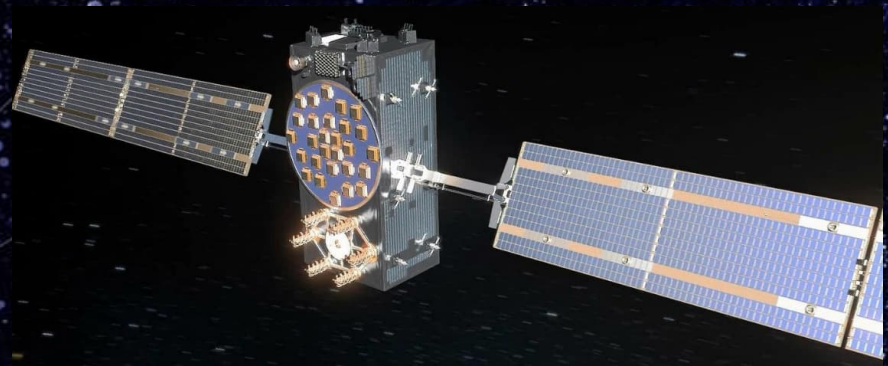




RESCUE OF **60 000**
PERSONS ASSISTED
SINCE 1982
500 FROM AVIATION
INCIDENTS IN 2022



COSPAS-SARSAT

PRESENTATION TO EUR SAR/TF/12
STEVEN LETT
HEAD OF SECRETARIAT



THREE TOPICS TO COVER

- COSPAS-SARSAT PROGRAMME STRUCTURE AND SYSTEM
- INNOVATIONS STATUS: MEOSAR AND NEXT GENERATION BEACONS – ELT(DT)s
- ALERT DATA DISTRIBUTION – GADSS COMPLIANT



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 2



COSPAS-SARSAT PROGRAMME STRUCTURE AND SYSTEM



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 3



WHO ARE WE ?

?



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

Slide 4



WE ARE YOU!

COSPAS-SARSAT PARTICIPATING COUNTRIES/AGENCIES



ALGERIA
ARGENTINA
AUSTRALIA
BRAZIL
CANADA
CHILE
CHINA
CYPRUS
DENMARK
FINLAND
FRANCE
GERMANY
GREECE
HONG KONG
INDIA
INDONESIA
ITALY
ITDC
JAPAN
KOREA (R. OF)
MALAYSIA
NETHERLANDS

NEW ZEALAND
NIGERIA
NORWAY
PAKISTAN
PERU
POLAND
QATAR
RUSSIA
SAUDI ARABIA
SERBIA
SINGAPORE
SOUTH AFRICA
SPAIN
SWEDEN
SWITZERLAND
THAILAND
TOGO
TUNISIA
TURKEY
UAE
UK
USA
VIETNAM



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME



INTERGOVERNMENTAL COOPERATIVE

- NON-U.N. AGENCY, BUT SIMILARLY ORGANIZED
- PARTY STATES ARE CANADA, FRANCE, THE RUSSIAN FEDERATION AND THE UNITED STATES
- FACILITIES AND EXPERTISE CONTRIBUTED BY PARTIES AND 41 OTHER ASSOCIATED “PARTICIPANT” STATES AND AGENCIES, AND INTERGOVERNMENTAL ORGANIZATIONS
- ADMINISTRATIVE COSTS SHARED AMONG PARTY AND PARTICIPANT GOVERNMENTS
- NOT** A REGULATORY BODY – THAT IS THE ROLE OF OTHER INTERNATIONAL ORGANIZATIONS AND NATIONAL ADMINISTRATIONS (BUT WE SET AND TEST STANDARDS)
- NOT** AN OPERATIONAL SAR UNIT – THAT IS THE ROLE OF NATIONAL ADMINISTRATIONS – YOU!



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

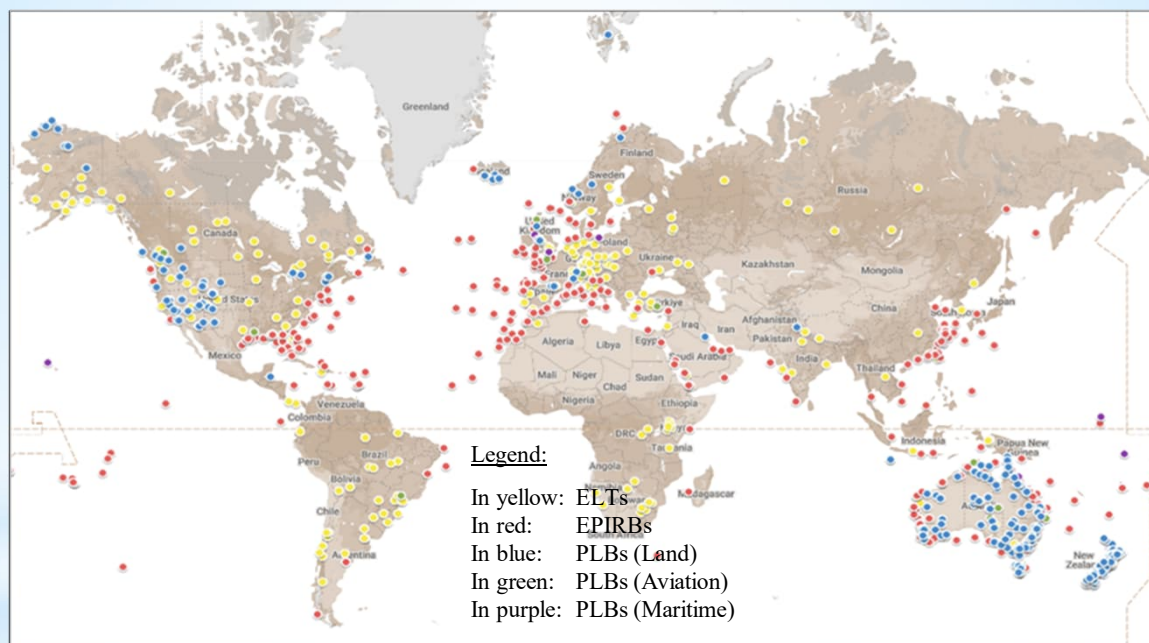
SLIDE 6



WHO ARE WE ?

WE ARE AN AGENCY THAT TODAY DELIVERS GLOBAL ALERTS TO
OVER 200 COUNTRIES AND TERRITORIES!

IRRESPECTIVE OF WHETHER THEY ARE MEMBERS



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

Slide 7



WHO ARE WE?

WE ARE ...

- ❑ THE ONLY SYSTEM THAT CAN INDEPENDENTLY LOCATE A BEACON ANYWHERE ON EARTH (WITHOUT THE AIRCRAFT REPORTING ITS POSITION NOR NEEDING GLOBAL NAVIGATION SATELLITE SYSTEM DATA, SUCH AS GPS)
- ❑ A COOPERATIVE OF GOVERNMENTS AND INTERGOVERNMENTAL ORGANIZATIONS (E.G., EC'S GALILEO AND EUMETSAT) THAT DELIVER ALERTS DIRECTLY TO SAR AGENCIES (E.G., RESCUE COORDINATION CENTRES), USUALLY BY AUTOMATIC MEANS



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

Slide 8



COOPERATIVE RELATIONSHIPS

UN AGENCIES

- INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO)
- INTERNATIONAL MARITIME ORGANIZATION (IMO)
- INTERNATIONAL TELECOMMUNICATION UNION (ITU)

OTHER INTERGOVERNMENTAL ORGANIZATIONS (IGOs)

- EUROPEAN COMMISSION (EUSPA / GALILEO)
- EUROPEAN ORGANISATION FOR THE EXPLOITATION OF METEOROLOGICAL SATELLITES (EUMETSAT).
- EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL)
- EUROPEAN UNION AVIATION SAFETY AGENCY (EASA)

NON-GOVERNMENTAL ORGANIZATIONS (NGOs)

- RADIO TECHNICAL COMMISSION FOR AVIATION (RTCA)
- RADIO TECHNICAL COMMISSION FOR MARITIME (RTCM)
- EUROPEAN ORGANIZATION FOR CIVIL AVIATION EQUIPMENT (EUROCAE)
- COMITÉ INTERNATIONAL RADIO-MARITIME (CIRM)

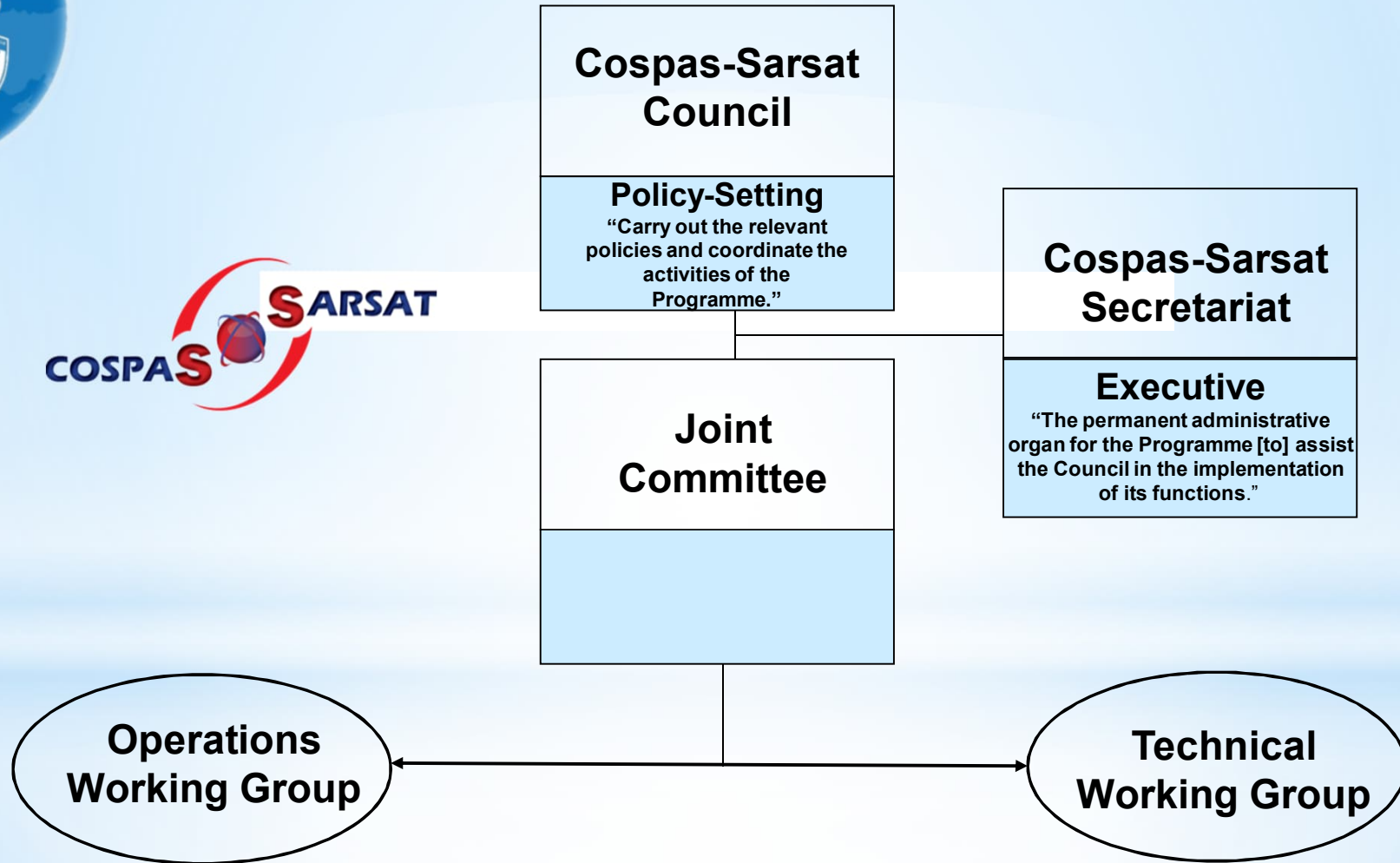


INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 9

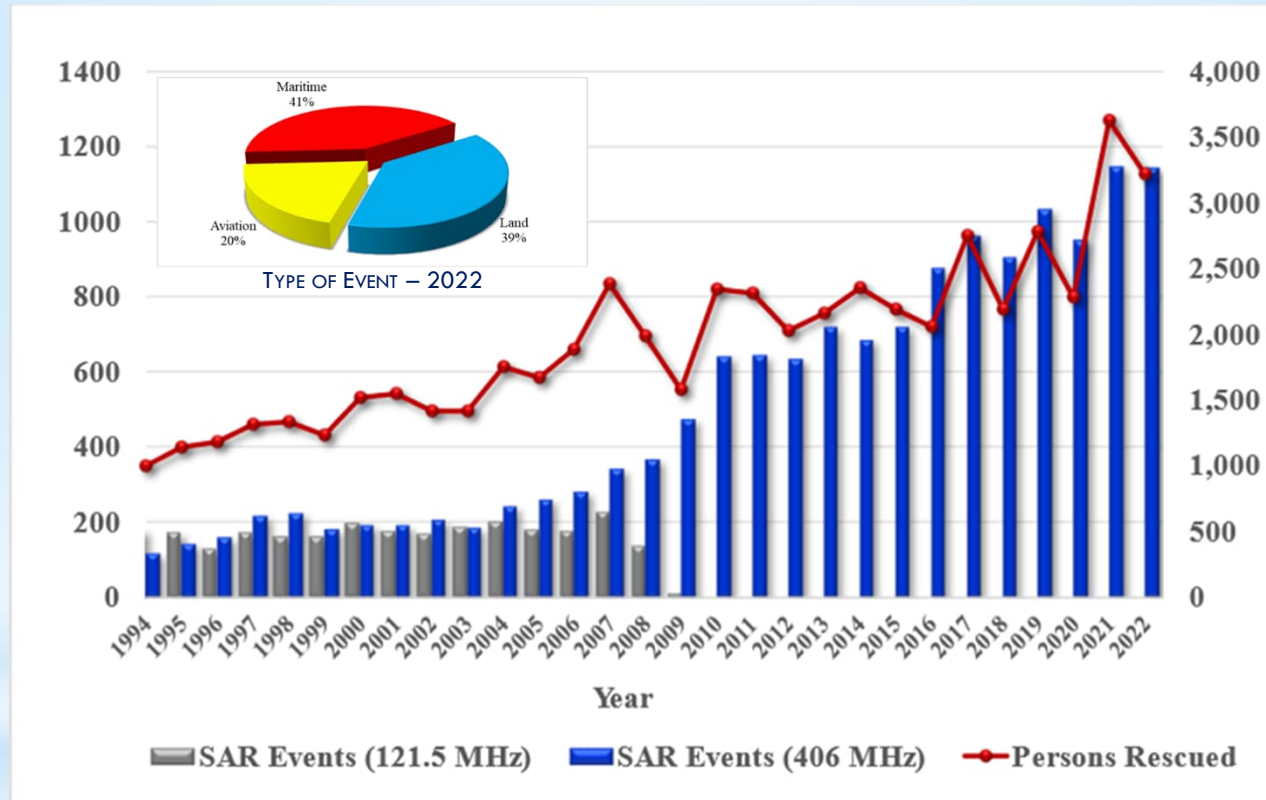


COSPAS-SARSAT ORGANIZATION





GLOBAL SYSTEM – HISTORICALLY PROVEN



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME



INNOVATIONS STATUS: MEOSAR

MEDIUM-ALTITUDE EARTH ORBITING SEARCH-AND RESCUE SATELLITE SYSTEM



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 12



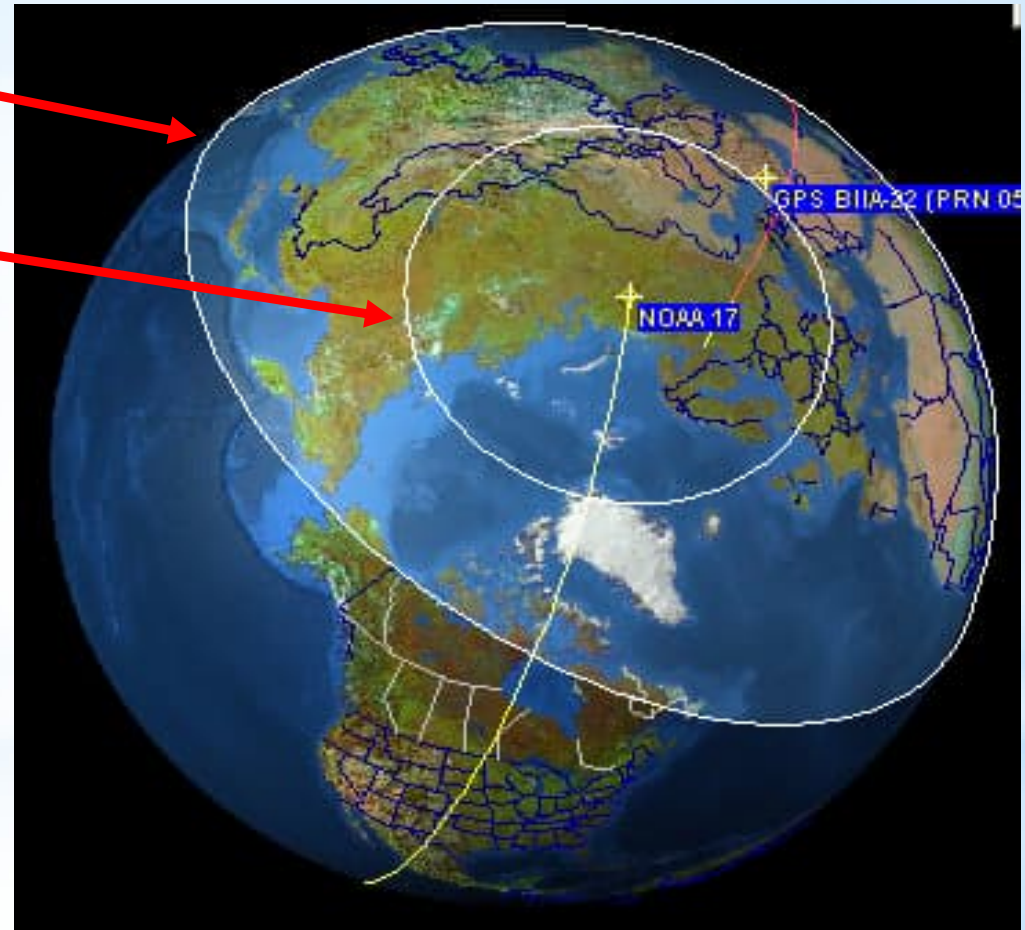
MEOSAR: AN IMPROVED SYSTEM CONCEPT

48+ MEOSAR SATELLITES
AT 20,000 KM

5 + 1 LEOSAR SATELLITES
AT 800 KM

12 + 8 GEOSAR SATELLITES
AT 36,000 KM

- ❑ MEO FOOTPRINT LARGER THAN LEO
- ❑ SIMILAR SIZE TO GEO FOOTPRINT, BUT SLOWLY MOVING
- ❑ CONTINUOUS GLOBAL COVERAGE THROUGH MULTIPLE SATELLITES (INCLUDING POLES)





MEOSAR SYSTEM FLEET ON THREE NAVIGATION SATELLITE HOSTS

(USING FREQUENCIES PROTECTED BY ITU FOR SAFETY OF LIFE – FIRST OPERATIONAL MEOSAR USE: 2016)

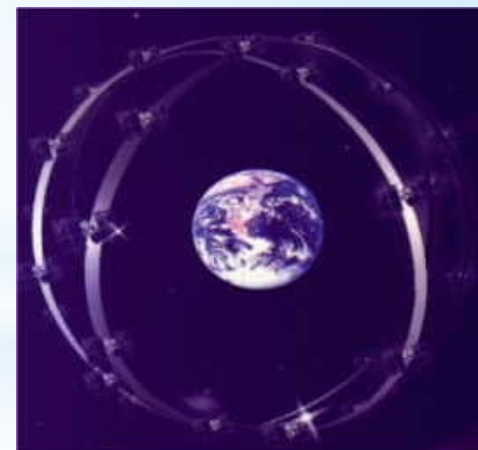
GPS / USA



Galileo / Europe



Glonass / Russia



SAR PAYLOADS ABOARD SIX BEIDOU (BDS) SATELLITES
ALSO BEING MADE AVAILABLE BY CHINA

INTERNATIONAL
COSPAS-SARSAT
PROGRAMME



MEOSAR ADVANTAGES

- ❑ NEAR INSTANTANEOUS WORLDWIDE DETECTION AND INDEPENDENT LOCATION DETERMINATION (INDEPENDENT OF BEACON-REPORTED NAVIGATION DATA FOR MOST 406-MHZ BEACONS)
- ❑ SIGNIFICANTLY REDUCED EFFECT OF AIRCRAFT ORIENTATION/TERRAIN/WRECKAGE OBSTRUCTIONS
- ❑ EXTENSIVE REDUNDANCY/RELIABILITY IN SPACE AND GROUND SEGMENTS
- ❑ IMPROVED LOCATION ACCURACY
- ❑ IMPROVED BEACONS AND FEATURES, INCLUDING:
 - GALILEO-PROVIDED RETURN LINK SERVICE (RLS)
 - REDUNDANT LOCALIZATION OF “SECOND-GENERATION” ELT(DT)s (VALIDATING OR BACK-UP LOCATIONS THROUGH REPORTED NAVIGATION DATA AND INDEPENDENT CALCULATIONS, EVEN AT HIGH SPEEDS)

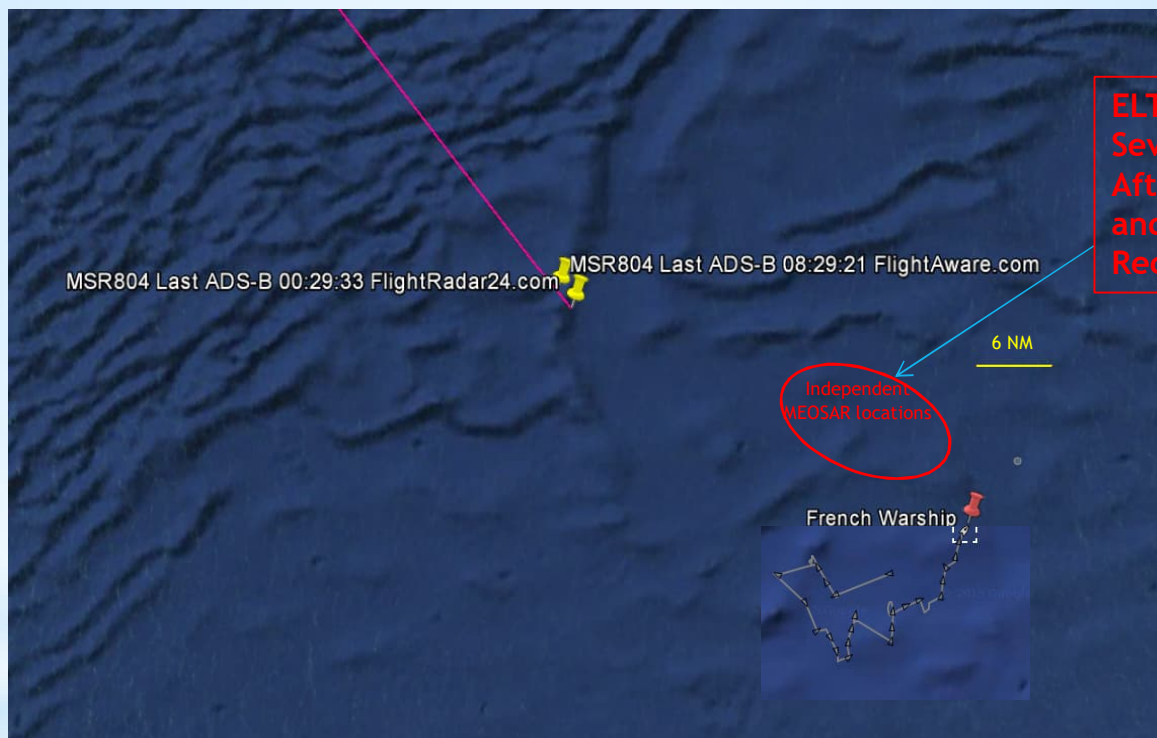


INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 15



MEOSAR USED TO CALCULATE LOCATION OF EGYPTAIR FLIGHT MS 804 (19 MAY 2016)



ELT Received Seven Minutes After Last ADS-B and ACARS Receptions



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 16



INNOVATIONS STATUS: ELTs FOR DISTRESS TRACKING ELT(DT)s GADSS COMPLIANCE



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 17



ELTs FOR DISTRESS TRACKING – ELT(DT)s

- LEGACY ELTs WERE DESIGNED FOR POST-CRASH ALERTING FOR *SURVIVABLE* INCIDENTS
- ELT(DT)s ARE SPECIFIED FOR IN-FLIGHT TRACKING OF AIRCRAFT IN DISTRESS
- EQUIPAGE WITH AT LEAST ONE AUTOMATIC ELT STILL REQUIRED BY ICAO – WITH 121.5 MHz HOMING*



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 18



ICAO CONVENTION ANNEX 6, NEW PARAGRAPH 6.18 MAIN REQUIREMENTS

MANDATORY EQUIPAGE JANUARY 2025 FOR AIRCRAFT CERTIFICATED ON/AFTER JANUARY 2024

- ALLOW THE POSITION OF AN AIRCRAFT IN DISTRESS TO BE AUTONOMOUSLY DETERMINED – WITHOUT HUMAN INTERVENTION – AT LEAST ONCE EVERY MINUTE (COSPAS-SARSAT EXCEEDS THIS REPORTING-FREQUENCY REQUIREMENT AND, WITH “SECOND GENERATION” BEACONS, WILL PROVIDE REDUNDANT, INDEPENDENTLY-CALCULATED POSITIONS TRILATERATED BY THE EARTH STATIONS IN ADDITION TO GNSS (ENCODED) POSITIONS)
- ABLE TO OPERATE IN THE EVENT OF AIRCRAFT POWER LOSS (ALL ELTs HAVE BUILT-IN BATTERY POWER SUPPLY)
- COMMENCE NO MORE THAN 5 SECONDS AFTER DETECTION OF ABNORMAL FLIGHT CONDITIONS (COSPAS-SARSAT WILL MEET OR EXCEED THIS SPECIFICATION)



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 19



ELT(DT)s TO SUPPORT GADSS

- ❑ IMPROVED DISTRESS ALERTING BY AUTOMATIC ACTIVATION PRIOR TO POSSIBLE DAMAGE OR BLOCKAGE (DEBRIS, SUBMERSION, ETC.) IN A CRASH
- ❑ ACTIVATION UPON DETECTION OF ABNORMAL FLIGHT CONDITIONS (ON COMMAND FROM AIRCRAFT AVIONICS) IN ADDITION TO POSSIBLE MANUAL ACTIVATION BY PILOTS
- ❑ RLS FACILITATES POSSIBILITY OF ACTIVATION BY GROUND COMMAND
[HTTPS://WWW.LINKEDIN.COM/PULSE/GRICAS-ELTDT-FOREFRONT-AUTONOMOUS-DISTRESS-TRACKING-GADSS-MARTIN/](https://www.linkedin.com/pulse/gricas-eltDT-forefront-autonomous-distress-tracking-gadss-martin/)
- ❑ CAPABILITY FOR POSITION TO BE REDUNDANTLY DETERMINED USING MEOSAR CALCULATIONS (SECOND-GENERATION BEACONS) AND AIRCRAFT GNSS POSITIONS
- ❑ SPECIFIED FOR COMPLIANCE WITH PARAGRAPH 6.18 OF ANNEX 6 OF THE ICAO CONVENTION (LOCATION OF AN AIRCRAFT IN DISTRESS), AS IMPLEMENTED IN THE GLOBAL AERONAUTICAL DISTRESS AND SAFETY SYSTEM (GADSS) AUTONOMOUS DISTRESS TRACKING REQUIREMENTS



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 20



ELT(DT)s TO SUPPORT GADSS

- THE BIG ASTERISK *
- BECAUSE THEY ARE DESIGNED FOR **IN-FLIGHT** DISTRESS TRACKING, ELT(DT)s ARE NOT REQUIRED TO HAVE A 121.5-MHZ HOMING TRANSMITTER
- BUT MANY ELT(DT)s ARE MULTI-FUNCTION DEVICES THAT WILL HAVE A HOMING TRANSMITTER
- BE PREPARED FOR EITHER CASE



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 21



ELTs FOR DISTRESS TRACKING (ELT(DT)s)

- ❑ TRIGGERING ALGORITHMS (MASPS) ESTABLISHED BY EUROCAE WG-98 JOINTLY WITH RTCA SC-229

- ❑ BASED ON THE TECHNOLOGIES OF:
 - EXISTING “FIRST GENERATION” BEACON (FGB) SPECIFICATIONS, MODIFIED TO MEET NEW ICAO REQUIREMENTS (USING GNSS DATA TO MEET ICAO ACCURACY SPECIFICATIONS) – OPERATIONAL 1 JANUARY 2023

 - “SECOND GENERATION” BEACON (SGB) SIGNAL AND MESSAGE SCHEMES TO ALLOW REDUNDANT LOCATION DETERMINATION (GNSS AND INDEPENDENT), AND ADDITIONAL MESSAGE CONTENT – OPERATIONAL SOON



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 22



ALERT DATA DISTRIBUTION – GADSS COMPLIANT



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 23



DATA DISTRIBUTION COMPONENTS

DISTRESS ALERT SIGNALS ARE RECEIVED BY ONE OR MORE “LOCAL USER TERMINAL” (LUT) EARTH STATIONS THAT CALCULATE AN ESTIMATED LOCATION FOR THE BEACON AND SEND THAT INFORMATION, TOGETHER WITH THE BEACON MESSAGE (IDENTIFICATION, ETC.) TO A MISSION CONTROL CENTRE (MCC) ASSOCIATED WITH THE LUT:

- ❑ MCC – MISSION CONTROL CENTRE – TAKES INFORMATION FROM A LUT OR ANOTHER MCC AND ROUTES IT TO THE PROPER DESTINATION. COSPAS-SARSAT HAS 33 MCCs.
- ❑ DDR – DATA DISTRIBUTION REGION – A REGION COMPRISED OF TWO OR MORE SERVICE AREAS, EACH SUPPORTED BY AN MCC, WHERE INFORMATION IS EXCHANGED BETWEEN MCCs. COSPAS-SARSAT HAS SIX DDRs.
- ❑ NODAL MCC (SIX) – SERVES AS A HUB FOR MESSAGE ROUTING BETWEEN DDRs (MCCs ARE ALLOWED TO ADDITIONALLY HAVE BILATERAL ARRANGEMENTS WITH MCCs IN ADJACENT DDRs).
- ❑ SPOC/RCC – SEARCH-AND-RESCUE POINT-OF-CONTACT OR RESCUE COORDINATION CENTRE – THE FIRST ENTRY POINT FOR A COSPAS-SARSAT ALERT PROVIDED TO A COUNTRY OR TERRITORY. THE SPOC IS RESPONSIBLE FOR DELIVERING THE ALERT DATA TO SAR AUTHORITIES **WHO CAN TAKE ACTION.**



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 24



COSPAS-SARSAT SYSTEM



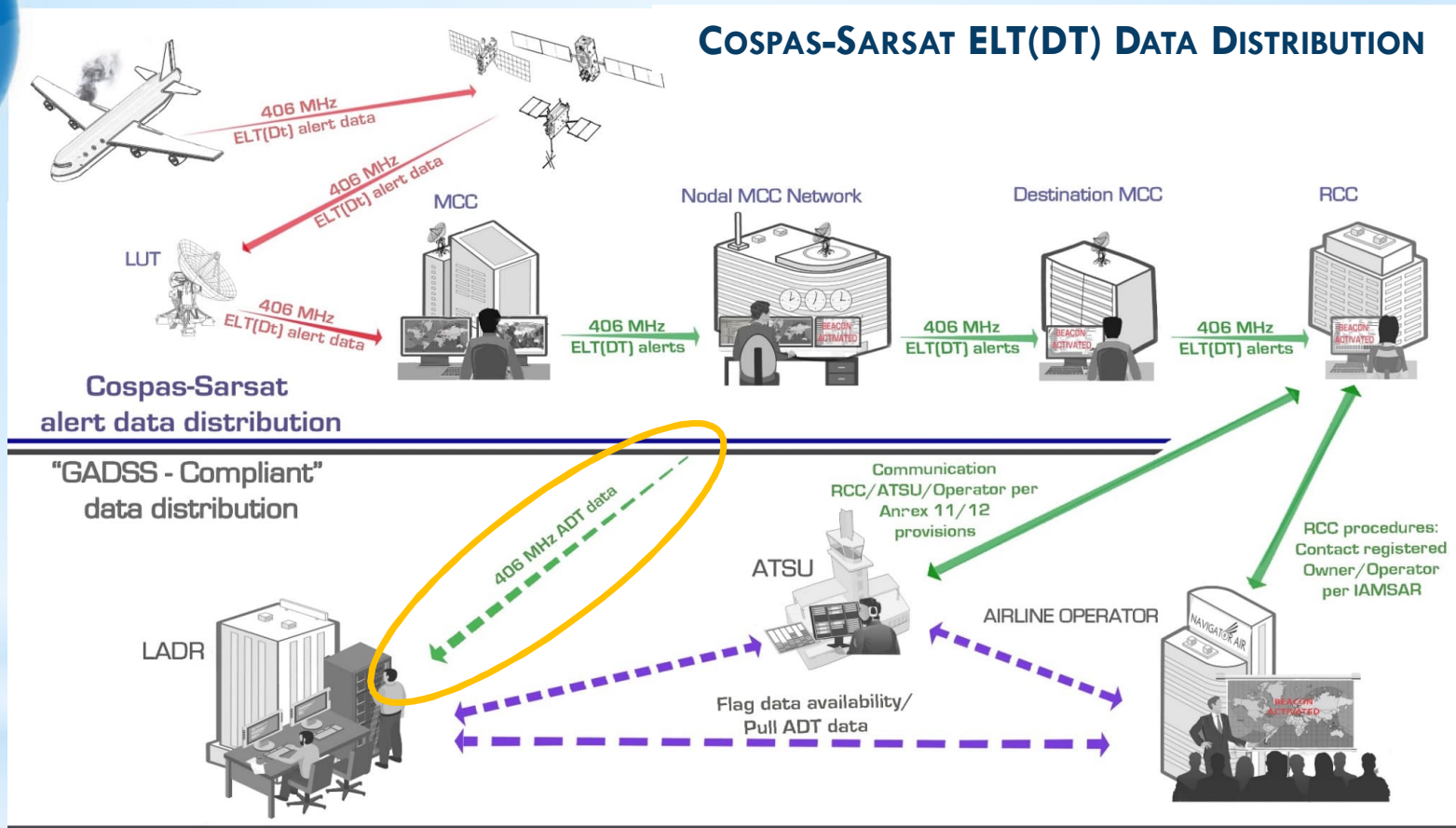
INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 25



“GADSS-COMPLIANT” DATA AVAILABILITY

COSPAS-SARSAT ELT(DT) DATA DISTRIBUTION



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME



10-YEAR LOOK AHEAD

- ❑ **COSPAS-SARSAT WILL BE RELIABLE PROVIDER OF GADSS DISTRESS-ALERTING SERVICES (IN ADDITION TO MARITIME AND PERSONAL CARRIAGE:**
 - OVER 70 SATELLITES IN ORBIT, MOST WITH LARGE FOOTPRINTS
 - TWO WELL-TESTED AND DEPLOYED SIGNAL AND MESSAGE SCHEMES
 - REDUNDANT LOCATION DETERMINATION (LOCAL NAV AND INDEPENDENT)
 - THE WORLD'S MOST TESTED AND USED DISTRESS DATA-AVAILABILITY AND DISTRIBUTION NETWORK

- ❑ **COSPAS-SARSAT WILL BE ONE OF A BLEND OF GADSS (AND OTHER DISTRESS ALERTING) SOLUTION CHOICES:**
 - OTHER SATELLITE LOCATION-DATA SERVICES
 - MULTIPLE SWIM-COMPLIANT DATA-AVAILABILITY AND DISTRIBUTION OPTIONS



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 27



TAKE-AWAYS

- COSPAS-SARSAT – AN INTERGOVERNMENTAL COOPERATIVE OF COUNTRIES AND AGENCIES WORKING TOGETHER TO ADDRESS GLOBAL NEEDS
- ALERTS ARE PROVIDED GLOBALLY FREE OF CHARGE
- MEOSAR OPERATIONAL CAPABILITY AVAILABLE SINCE 2016
- ELTs FOR DISTRESS TRACKING TO MEET ICAO REQUIREMENTS:
 - IN-FLIGHT TRIGGERING
 - COMPARABLE FIT AND FINISH
 - PROVEN “FIRST GENERATION” BASED ELT(DT) CAPABILITY OPERATIONAL JANUARY 2023
 - “SECOND-GENERATION” CAPABILITY BEING READIED
 - RETURN LINK SERVICE
- INTEGRATION WITH LADR BEING ORGANIZED AND TESTED



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 28



COSPAS-SARSAT

WWW.406.ORG



“FIRST GENERATION” BEACONS (FGBs) AND “SECOND GENERATION” BEACONS (SGBs)



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 30



“FIRST GENERATION” BEACONS (FGBs)

- ❑ THE ORIGINAL DIGITAL 406-MHZ BEACON TECHNOLOGY, GOING BACK 40 YEARS (AS DISTINGUISHED FROM ANALOG 121.5-MHZ BEACONS WITH NO IDENTIFICATION)
- ❑ USES A NARROWBAND (3 KHZ) CHANNELIZATION SCHEME
- ❑ UP TO 119 MESSAGE BITS PER TRANSMISSION BURST



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 31



“SECOND GENERATION” BEACONS (SGBs)

- ❑ THE NEWEST DIGITAL 406-MHZ BEACON TECHNOLOGY, SOON TO BE INTRODUCED
- ❑ USES A WIDEBAND (SPREAD SPECTRUM) MODULATION METHOD THAT DOES NOT REQUIRE CHANNELIZATION
- ❑ EACH TRANSMISSION BURST HAS A LONGER MESSAGE WITH MORE INFORMATION (UP TO 202 BITS)
- ❑ INTRODUCED THE CONCEPT OF “ROTATING MESSAGE FIELDS” WHERE DIFFERENT TRANSMISSION BURSTS MAY HAVE DIFFERENT KINDS OF INFORMATION (ALSO USED IN A LIMITED WAY FOR FGB ELT(DT)s)
- ❑ EXPECTED TO BE MORE ROBUST IN RECEPTION (MORE IMMUNE TO INTERFERENCE)

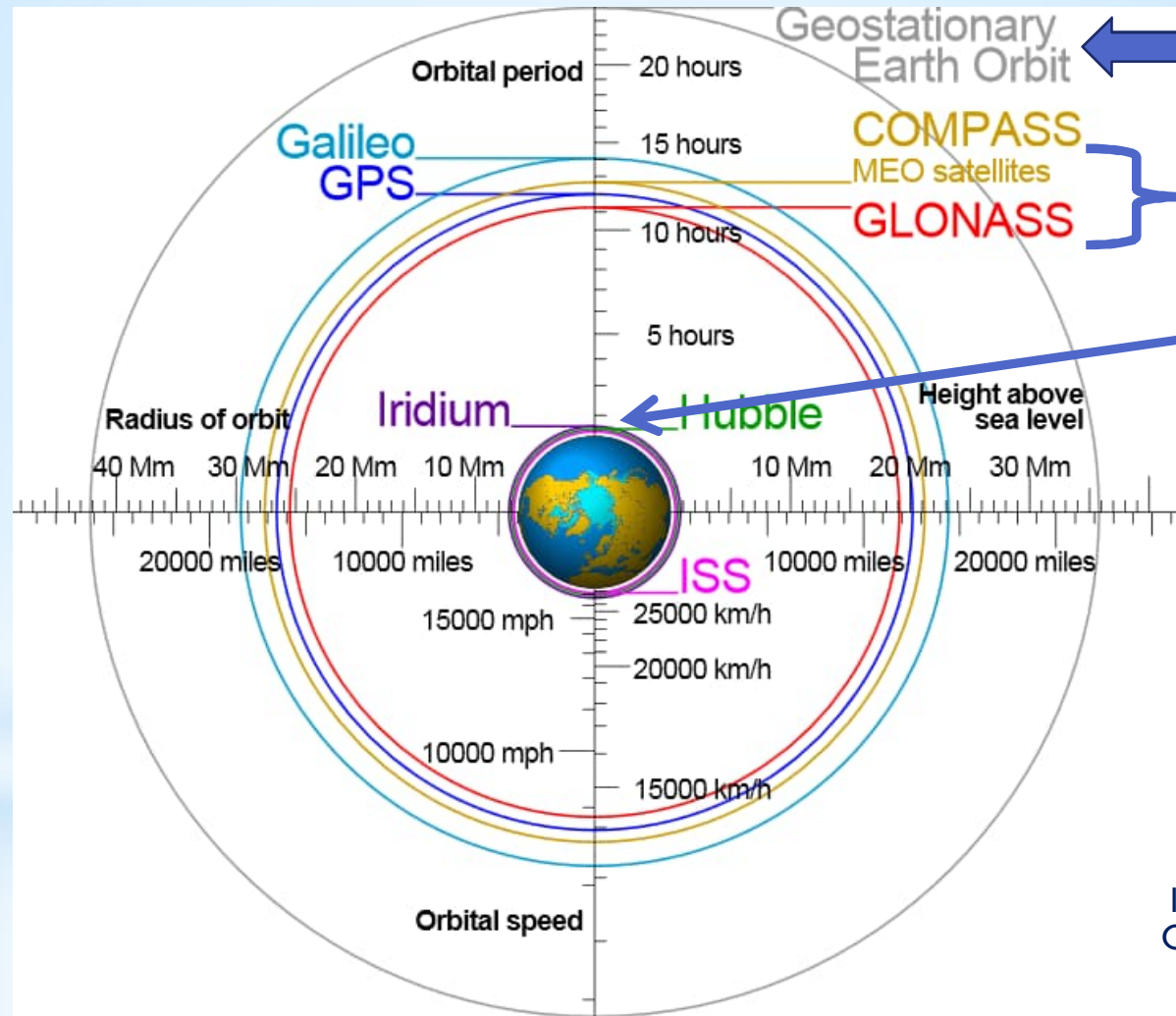


INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 32



MEOSAR ORBIT COMPARISON



GEOSAR

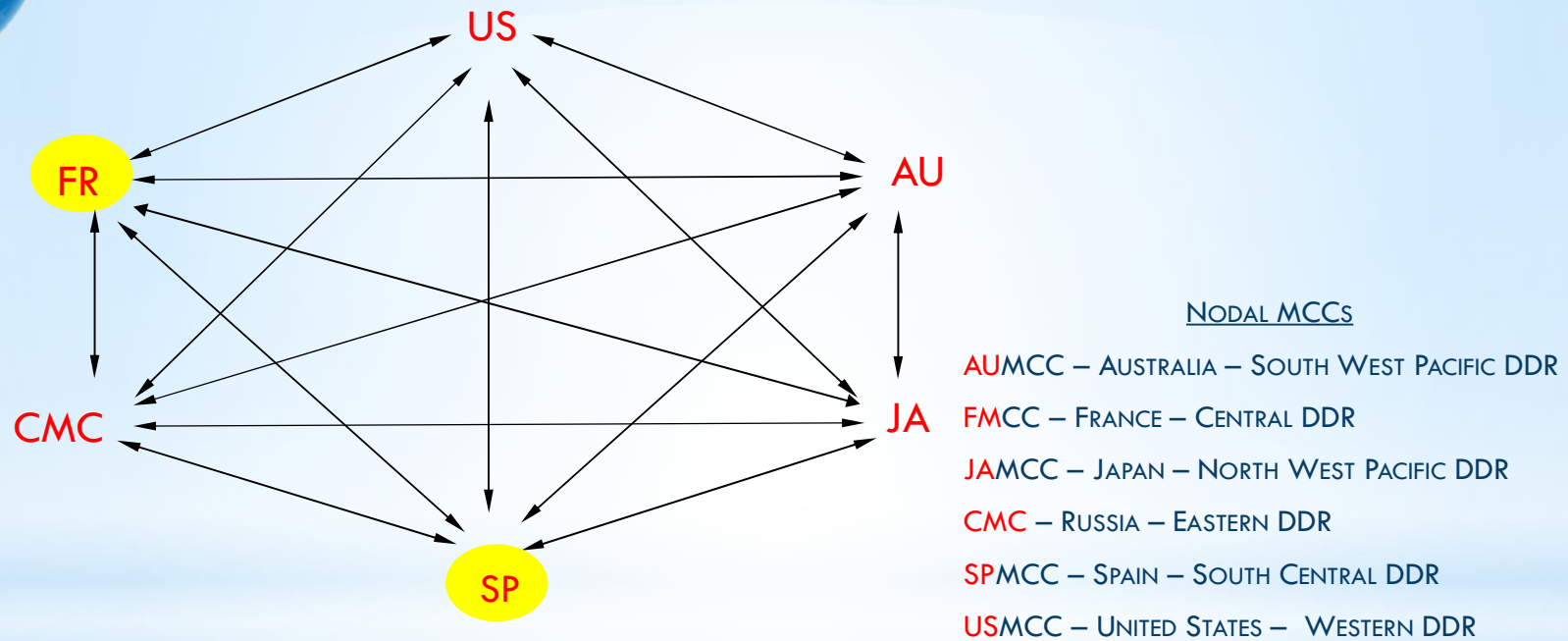
MEOSAR

LEOSAR

INTERNATIONAL
COSPAS-SARSAT
PROGRAMME



DATA DISTRIBUTION REGIONS



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME



COSPAS-SARSAT PROGRAMME LEGAL STRUCTURES



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 35



COSPAS-SARSAT PROGRAMME AGREEMENT

THE STATES PARTIES TO THIS AGREEMENT:

NOTING THE SUCCESSFUL IMPLEMENTATION OF THE COSPAS-SARSAT SEARCH AND RESCUE SATELLITE SYSTEM ESTABLISHED UNDER A **MEMORANDUM OF UNDERSTANDING** AMONG THE MINISTRY OF MERCHANT MARINE OF THE UNION OF SOVIET SOCIALIST REPUBLICS, THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OF THE UNITED STATES OF AMERICA, THE DEPARTMENT OF NATIONAL DEFENCE OF CANADA AND THE CENTRE NATIONAL D'ETUDES SPATIALES OF FRANCE WHICH WAS SIGNED ON 5 OCTOBER 1984 AND CAME INTO EFFECT ON 8 JULY 1985;

AWARE OF THE EFFORTS IN THE **INTERNATIONAL MARITIME ORGANIZATION** TO ESTABLISH A GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM, BUILDING ON THE INTERNATIONAL CONVENTION FOR THE SAFETY OF LIFE AT SEA ... AS WELL AS THE RESPONSIBILITIES OF THE **INTERNATIONAL CIVIL AVIATION ORGANIZATION** AND THE **INTERNATIONAL TELECOMMUNICATION UNION** IN THEIR RESPECTIVE FIELDS;

RECALLING THE PROVISIONS OF THE **TREATY ON PRINCIPLES GOVERNING THE ACTIVITIES OF STATES IN THE EXPLORATION AND USE OF OUTER SPACE, INCLUDING THE MOON AND OTHER CELESTIAL BODIES**, OF 27 JANUARY 1967, AND OTHER MULTILATERAL AGREEMENTS REGARDING THE USE OF OUTER SPACE TO WHICH THEY ARE PARTY....



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 36



COSPAS-SARSAT PROGRAMME AGREEMENT

ARTICLE 1	DEFINITIONS
ARTICLE 2	PURPOSE OF THE AGREEMENT
ARTICLE 3	GENERAL DESCRIPTION OF THE SYSTEM
ARTICLE 4	COOPERATING AGENCIES
ARTICLE 5	RESPONSIBILITIES OF PARTIES
ARTICLE 6	FINANCIAL MATTERS
ARTICLE 7	STRUCTURE
ARTICLE 8	THE COUNCIL - COMPOSITION AND PROCEDURES
ARTICLE 9	FUNCTIONS OF THE COUNCIL
ARTICLE 10	THE SECRETARIAT
ARTICLE 11	GROUND SEGMENT PROVIDERS
ARTICLE 12	USER STATES
ARTICLE 13	RELATIONSHIP WITH INTERNATIONAL ORGANIZATIONS
ARTICLE 14	LIABILITY
ARTICLE 15	SETTLEMENT OF DISPUTES
ARTICLE 16	ACCESSION
ARTICLE 17	WITHDRAWAL
ARTICLE 18	AMENDMENTS
ARTICLE 19	DEPOSITARY
ARTICLE 20	ENTRY INTO FORCE AND DURATION



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 37



COSPAS-SARSAT PROGRAMME AGREEMENT

ARTICLE 8:

THE COUNCIL - COMPOSITION AND PROCEDURES

- 8.1 THE COUNCIL SHALL BE COMPOSED OF ONE REPRESENTATIVE OF EACH OF THE PARTIES WHO MAY BE ACCOMPANIED BY DEPUTIES AND ADVISERS.
- 8.2 THE COUNCIL SHALL ADOPT ITS OWN RULES OF PROCEDURE.
- 8.3 THE COUNCIL SHALL MEET AS OFTEN AS MAY BE NECESSARY FOR THE EFFICIENT DISCHARGE OF ITS FUNCTIONS, BUT NOT LESS THAN ONCE A YEAR.
- 8.4 **DECISIONS OF THE COUNCIL SHALL BE TAKEN UNANIMOUSLY.**
- 8.5 THE LANGUAGES OF THE COUNCIL SHALL BE ENGLISH, FRENCH AND RUSSIAN.



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 38



COSPAS-SARSAT PROGRAMME AGREEMENT

ARTICLE 13:

RELATIONSHIP WITH INTERNATIONAL ORGANIZATIONS

13.1 TO PROMOTE IMPLEMENTATION OF THIS AGREEMENT, THE PARTIES, ACTING THROUGH THE COUNCIL, SHALL **COOPERATE WITH THE INTERNATIONAL CIVIL AVIATION ORGANIZATION, THE INTERNATIONAL TELECOMMUNICATION UNION AND THE INTERNATIONAL MARITIME ORGANIZATION,** AS WELL AS WITH **OTHER INTERNATIONAL ORGANIZATIONS,** ON MATTERS OF COMMON INTEREST. THE PARTIES SHALL TAKE INTO ACCOUNT THE RELEVANT RESOLUTIONS, STANDARDS AND RECOMMENDATIONS OF THESE INTERNATIONAL ORGANIZATIONS.

13.2 THIS COOPERATION MAY BE FORMALIZED BETWEEN THESE ORGANIZATIONS AND THE PARTIES.



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 39



COSPAS-SARSAT PROGRAMME AGREEMENT

ARTICLE 14:

LIABILITY

14.1 THE PARTIES SHALL **NOT** MAKE ANY CLAIMS OR **BRING ACTIONS AGAINST EACH OTHER FOR INJURY, DAMAGES OR FINANCIAL LOSSES** ARISING OUT OF ACTIVITIES, OR LACK THEREOF, PURSUANT TO THIS AGREEMENT.

14.2 THE PARTIES ACCEPT NO LIABILITY TOWARDS USERS OF THE SYSTEM OR **ANY THIRD PARTY, PARTICULARLY AS REGARDS ANY CLAIMS FOR INJURY, DAMAGES OR FINANCIAL LOSSES** THAT MAY ARISE FROM THE USE OF THE SYSTEM. PARTIES WILL COOPERATE WITH A VIEW TO PROTECTING THEMSELVES FROM ANY SUCH POTENTIAL CLAIMS.



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 40



COSPAS-SARSAT PROGRAMME AGREEMENT

ARTICLE 15:

SETTLEMENT OF DISPUTES

15.1 ANY DISPUTE CONCERNING THE INTERPRETATION OR IMPLEMENTATION OF THIS AGREEMENT SHOULD BE **SETTLED BY NEGOTIATIONS** BETWEEN OR AMONG THE PARTIES CONCERNED.

15.2 IF A SETTLEMENT CANNOT BE REACHED BY SUCH NEGOTIATIONS, THE DISPUTE MAY, **IF THE AFFECTED PARTIES SO AGREE**, BE REFERRED TO ARBITRATION.



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 41



COSPAS-SARSAT LEGAL STRUCTURES

www.406.org > [COSPAS-SARSAT PROFESSIONALS](#) > [DOCUMENTS](#) > [SYSTEM DOCUMENTS](#) >
[C/S P.000 SERIES - PROGRAMME](#)

C/S P.001 INTERNATIONAL COSPAS-SARSAT **PROGRAMME AGREEMENT**

C/S P.002 PROCEDURE FOR THE **NOTIFICATION OF ASSOCIATION** WITH THE INTERNATIONAL COSPAS-SARSAT PROGRAMME
BY **STATES NON-PARTY** TO THE COSPAS-SARSAT AGREEMENT

C/S P.005 ARRANGEMENT BETWEEN **CANADA**, THE REPUBLIC OF FRANCE, THE RUSSIAN FEDERATION AND THE UNITED STATES
OF AMERICA REGARDING THE **HEADQUARTERS** OF THE INTERNATIONAL COSPAS-SARSAT PROGRAMME

C/S P.006 UNDERSTANDING BETWEEN THE COSPAS-SARSAT PROGRAMME AND THE **GOUVERNEMENT DU QUÉBEC**
CONCERNING EXEMPTIONS, FISCAL ADVANTAGES AND COURTESIES ACCORDED TO THE PROGRAMME, REPRESENTATIVES OF
MEMBER STATES AND OFFICIALS OF THE SECRETARIAT



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 42



COSPAS-SARSAT LEGAL STRUCTURES

www.406.org > [COSPAS-SARSAT PROFESSIONALS](#) > [DOCUMENTS](#) > [SYSTEM DOCUMENTS](#) >
C/S P.000 SERIES - PROGRAMME

C/S P.008 ARRANGEMENT ON COOPERATION BETWEEN THE COOPERATING AGENCIES OF THE PARTIES TO THE INTERNATIONAL COSPAS-SARSAT PROGRAMME AGREEMENT AND THE EUROPEAN ORGANISATION FOR THE EXPLOITATION OF METEOROLOGICAL SATELLITES (**EUMETSAT**) ON THE EUMETSAT CONTRIBUTION TO THE COSPAS-SARSAT GEOSAR SYSTEM

C/S P.009 UNDERSTANDING BETWEEN THE STATES PARTIES TO THE INTERNATIONAL COSPAS-SARSAT PROGRAMME AGREEMENT AND THE **REPUBLIC OF INDIA** CONCERNING THE ASSOCIATION OF THE REPUBLIC OF INDIA WITH THE COSPAS-SARSAT PROGRAMME AS A PROVIDER OF GEOSTATIONARY SATELLITE SERVICE

C/S P.014 DECLARATION OF INTENT FOR CO-OPERATION ON THE DEVELOPMENT AND EVALUATION OF THE MEDIUM EARTH ORBIT SEARCH AND RESCUE (**MEOSAR**) SATELLITE SYSTEM BETWEEN THE CO-OPERATING AGENCIES OF THE INTERNATIONAL COSPAS-SARSAT PROGRAMME AND THE **GALILEO JOINT UNDERTAKING (2006)**

C/S P.016 COSPAS-SARSAT STRATEGIC PLAN

C/S P.017 DECLARATION OF INTENT BETWEEN THE CO-OPERATING AGENCIES OF THE INTERNATIONAL COSPAS-SARSAT PROGRAMME AND THE **EUROPEAN COMMISSION** FOR CO-OPERATION ON THE INITIAL OPERATIONAL CAPABILITY OF THE COSPAS-SARSAT **MEOSAR SATELLITE SYSTEM (2016)**



INTERNATIONAL
COSPAS-SARSAT
PROGRAMME

SLIDE 43