

# Coordination of air units in SAR

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Hovedredningsentralen



# The Norwegian SAR service



“The organised activity in connection with immediate effort, to save **human lives from death or injuries caused by sudden accidents or danger** in situations which are not handled by *separately established organisations or by special enterprises.*”

# JRCC organization

The Norwegian Search and Rescue (SAR) service is a fully integrated set of services directed by a single coordinating organization responsible for all types of rescue operations

- Land
- Sea
- Air

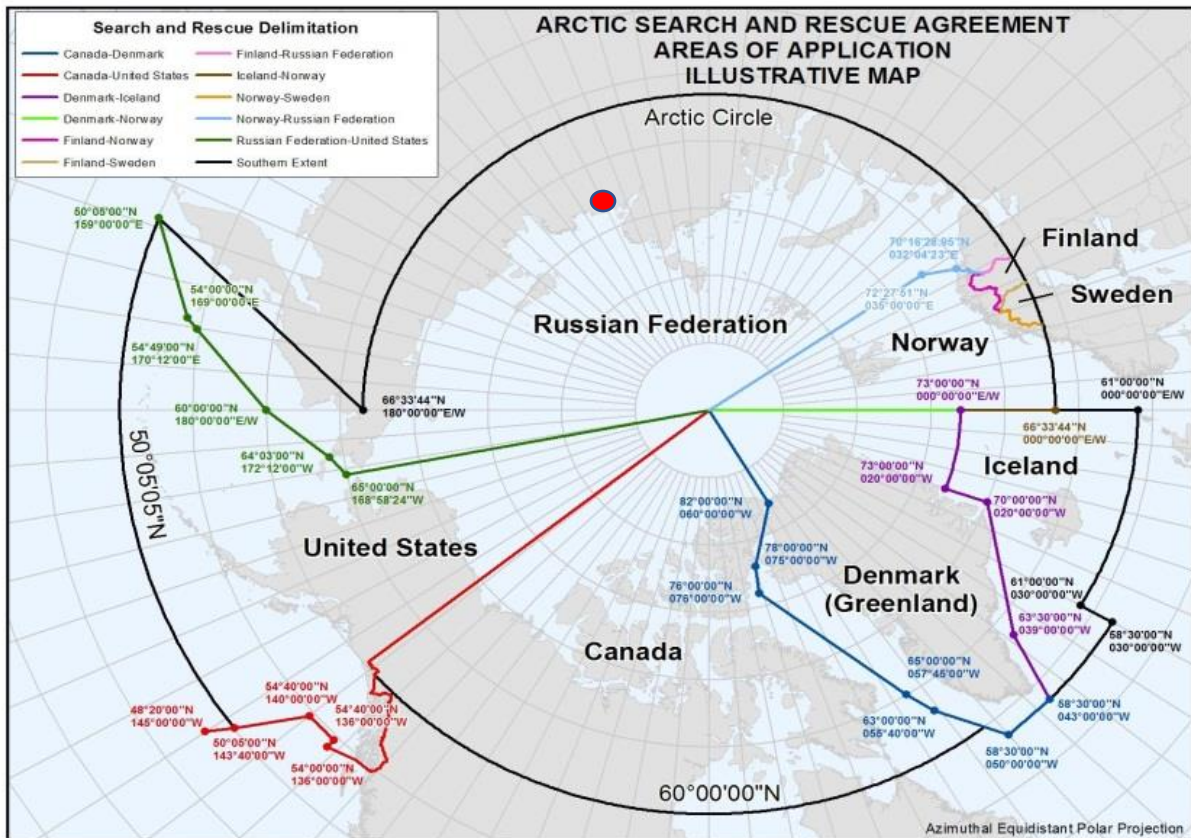


# JRCC tasks

- Always ready to respond to distress situations 24/7
- Ensure quick, safe and effective Search and Rescue (SAR) operations (Direction and Coordination)
- On behalf of the Government, execute the special responsibility to maintain and further develop the SAR collaboration across sectors, between public institutions, voluntary organisations and private companies



# Norwegian SAR Region (SRR)





# SAR Assets





## Norwegian Armed Forces Norwegian Home Guard



## Norwegian Civil Defence



# The volunteers

- Rescue-units available at short notice
- Approx. 12,500 personell





# Success Criteria



Share experiences

Good guidelines

Good communication

JRCC is leading

# The norwegian solution: Air Forum



CHC



CAA Norway



Norsk Folkehjelp



Røde Kors



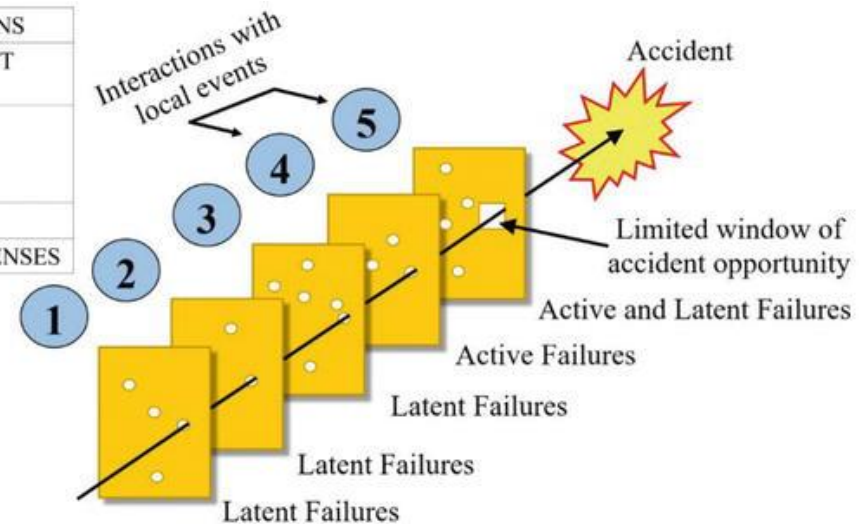
BRANNVESENET



# Flight safety

- Inherent risk for air units involved in SAR: Time critical operations in confined airspace at all hours, in all kinds of weather.
- Other users of the airspace can inadvertently enter airspace where there is ongoing SAR.
- Swiss cheese model. Layers added.

1	FALLIBLE DECISIONS
2	LINE MANAGEMENT DEFICIENCIES
3	PSYCHOLOGICAL PRECURSORS OF UNSAFE ACTS
4	UNSAFE ACTS
5	INADEQUATE DEFENSES



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# Guidelines

- National guidelines for the coordination of air units in Search and Rescue
- Published in may 2024 by the Norwegian JRCC
- Describes coordination procedures between air units in SAR
- All air units in SAR shall report to JRCC in due time before entering area of operations.



Air units can be separated by 3 means:

- Horizontal separation by means of geographical reference points
- Vertical separation by an agreed-upon altitude (MSL or AGL)
- Time-based separation



# Success Criteria



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# Communication



**Luft: 123,1Mhz**  
*(ref:IAMSAR)*



**Land: XX-SAR-1**  
*(ref:National handbook)*



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**Sjø: CH 16**  
*(ref:IAMSAR)*



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# Success Criteria



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# Norwegian JRCC's role

The Norwegian JRCC is a catalyst for optimal cooperation in SAR.

All units shall report to JRCC before participating in SAR.



# Norwegian JRCRC's role

The screenshot displays a web-based interface for the Norwegian Joint Rescue Coordination Centre (JRCRC). The main area is a topographic map of a coastal region in Norway, with various search results overlaid as colored polygons and lines. A search bar at the top left contains the text "Søk i kartet". A sidebar on the right contains a "Brief" section with the following text: "Situasjon: Søk etter savnet fra hytte på Soløyvannet", "Oppdrag: Søk etter savnet person", "Scenario: Gått fra hytta, lagt igjen selvmordsbrev", "Talegrupper/kanaler: 10-SAR-1", "Annet: RKH, NFS, droner og RH BO er varslet. Oppmøtested RKH-hytta v/Soløyvannet", and a "Rediger brief" button. Below the brief is a section for "Kari Nordmann - Savnetprofil" featuring a profile picture, a "1 bilde" link, and details: "Kategori: Mentalt syk", "Navn: Kari Nordmann", "Alder: 69", "Kjønn: Kvinne", "Signalement: Rød jakke, jeans", and "Helseinformasjon: Suicidal, går på sterke medisiner". A vertical toolbar on the far right includes icons for "Oversett", "Oppgaver", "Etterretning", "KO", "Aljanslogg", "Oppdrag", "Resurser", "Min innsett", "Min lagg", and "Ming".

Currently rolling out a new Joint Action Support software and app for all resources in the Norwegian Rescue Service

Provides shared situational awareness

JRCRC and Police can task units to geographic areas and follow live progression

# Norwegian JRCC's role

Helicopters and drones are all visible in the Joint Action Support Tool.

In the future this tool will reduce the need for coordination between agencies and organizations.





# Hovedredningssentralen

*Samvirke i praksis*

