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# ICE-SAR and SAR in Iceland

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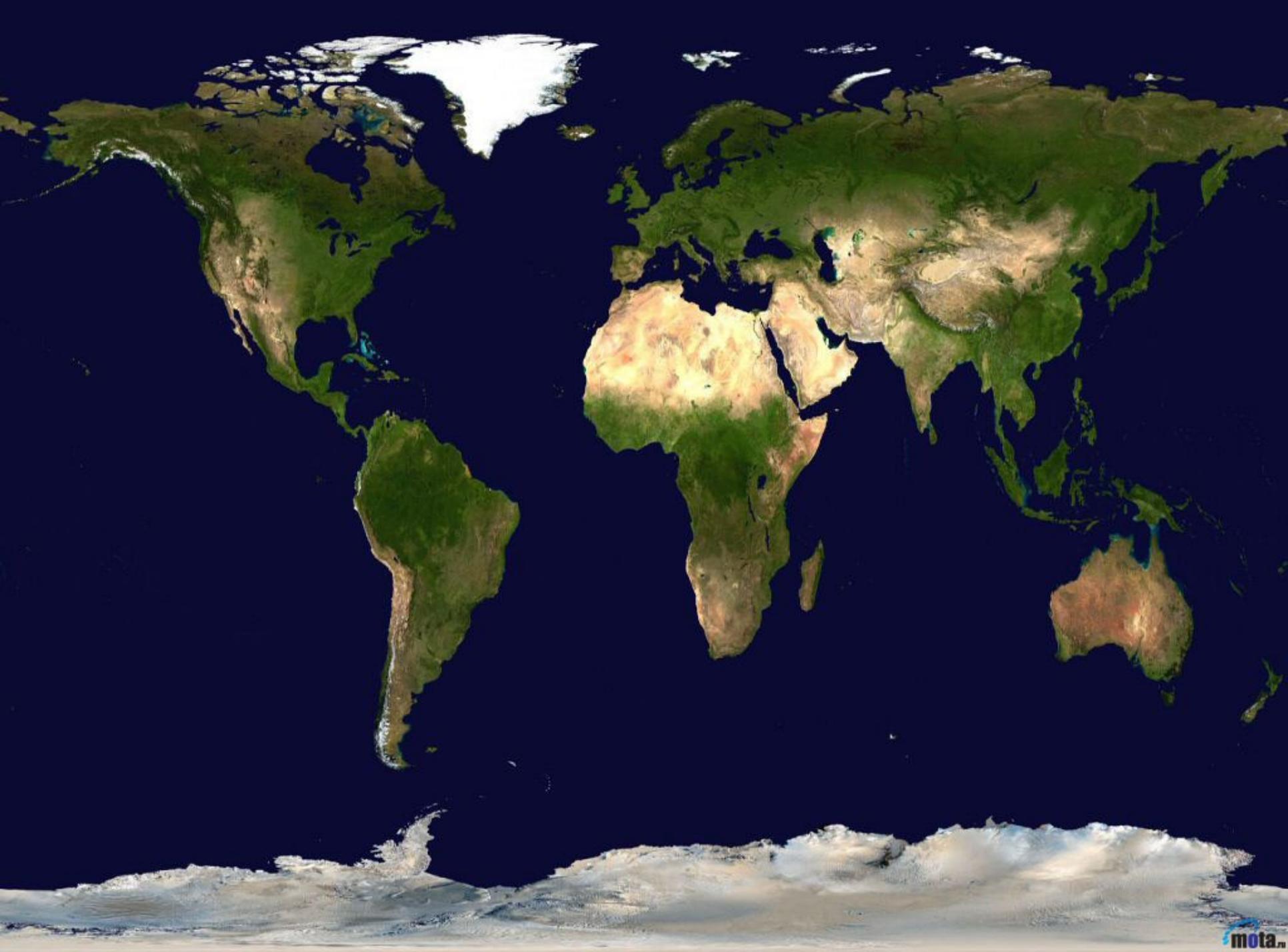


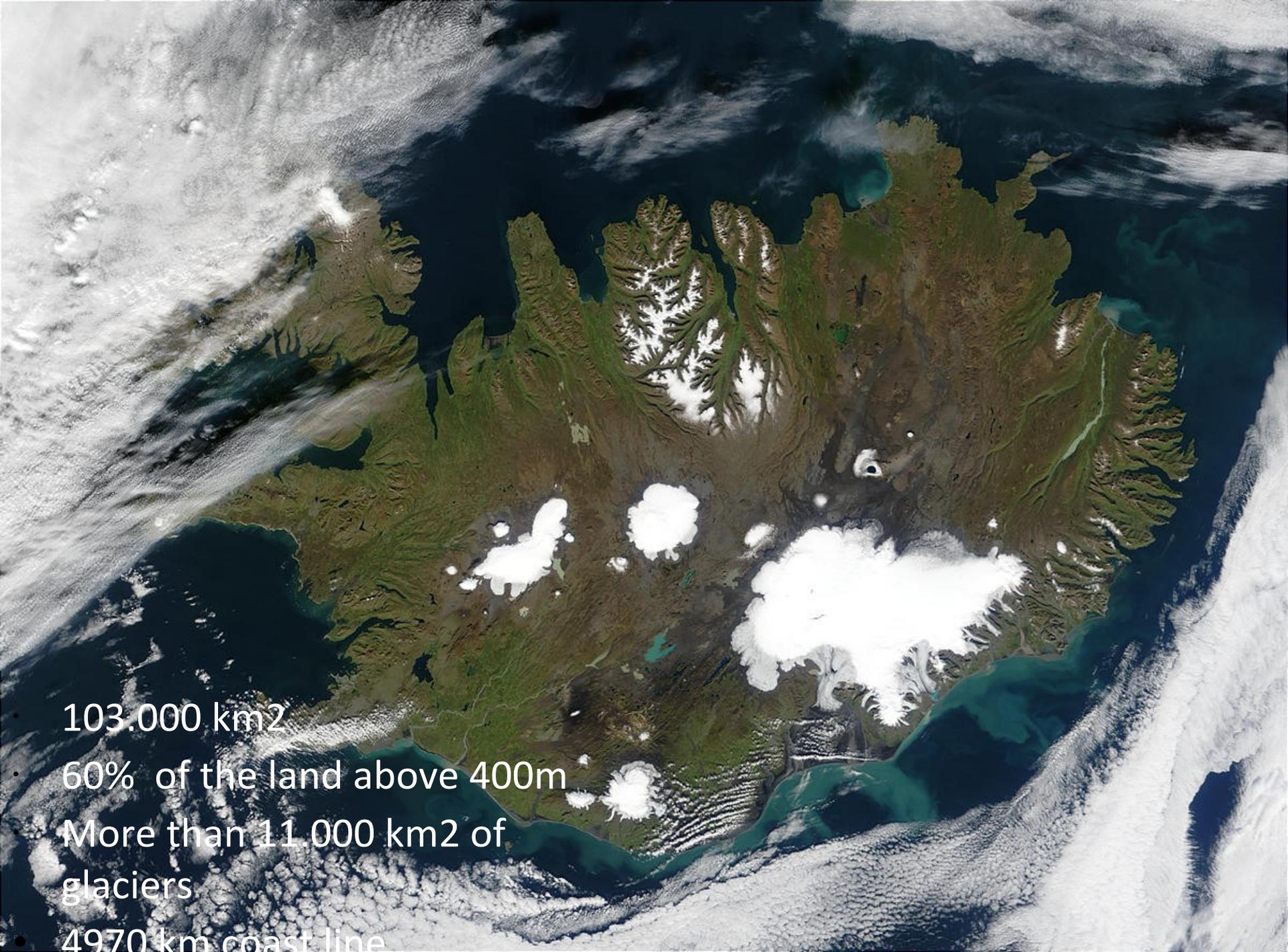
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# A bit about the guy

- Sigurður Ólafur  
Sigurðsson – “Siggi”
- A volunteer for the  
Kópavogur SAR team  
since 1990
- Working at ICE-SAR School and ICE SAR SAR  
department since 1997
- A member of National SAR commands duty in Iceland
- SAR background in mountain rescue but for the  
last 10 years in search techniques and  
management
- A husband, a father and an outdoor kind of guy







103.000 km<sup>2</sup>

• 60% of the land above 400m

• More than 11.000 km<sup>2</sup> of glaciers

• 4970 km coast line



- Population 320.000
- About 3 souls pr. km<sup>2</sup>
- Vistors around 500.000

# The conditions



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- Rugged open landscapes
- Big lava fields
- Sand deserts
- Big glaciers
- Hostile everchanging weather
- Not a lot of trees
- Dark winters and bright summers



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# SAR in Iceland

SAR Responsibility

SAR Resources

ICE-SAR Resources

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# SAR in Iceland - ICE SAR

- The backbone of S
- Do nearly all of the levels
- Have our own cor that intergrades v
- All volunteers



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# ICE-SAR

Icelandic association for search and Rescue



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## The ICE SAR statistics

- 99 SAR teams based in most towns and villages
- 3000 SAR volunteers on callout 24/7
- 80 Accident prevention units
- 50 Youth units
- 18.000 members in all
- Headquarters staffed with 20 people
- 1400 callouts for 600-800 operations a year
- 640.000 hours a year

# SuperJeeps

- 170 SuperJeeps
  - SuperJeeping a big part of the SAR culture
  - Almost every SAR team has one
  - Important because they can go anywhere
  - A big culture of self-reliance



# Snowmobiles and snowgroomers

- 200 Snowmobiles
  - GPS
  - Comm
  - Spiked belts
  - SAR equipment a
- 43 Snowgroomers
  - Snowmobile back
  - Sometimes the on



# Maritime SAR

- 14 Big Lifeboats
  - Spread around the island
- 35 RIB's
  - Inshore SAR
- 90 Smaller inflatables
  - Inshore, lakes and rivers



# ATV's and other equipment

- 4 and 6 wheel atv'
- Hovercrafts
- Mountain bikes
- Enduro bikes
- Swift Water boats
- Kayaks
- Generators, waterpumps, lighting equipment, urban sar cameras etc.



# ICE SAR training



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- Via ICE SAR - SAR School
- General training
- High angle rescue teams
- Search teams
- Search dogs
- Marine SAR
- Urban SAR
- Vehicle training
- Management training
- Whitewater, tracking, leadership etc...

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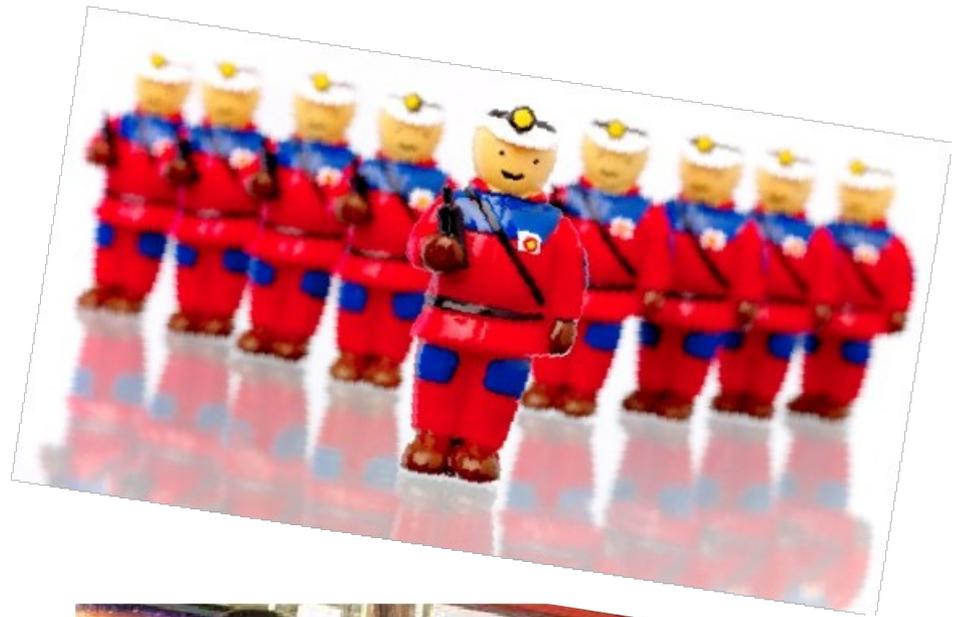




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# Funding

- Headquarters
- Slot machines
- Gov. support
- Lottery
- (Fundraising)



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# Funding



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- SAR-Teams
- Fireworks
- Lottery
- Christmas trees
- Recycling bottles €
- (Slot machines)



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## Our goal is:

- To be leading and professional and willing to sacrifice our time and comfort for the safety of others.



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# Thank you for your attention

[www.icesar.com](http://www.icesar.com)

[sigosig@landsbjorg.is](mailto:sigosig@landsbjorg.is)

# Living together since 2004



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- In one building in Reykjavík:
  - ICE SAR Headquarters - office
  - 112 Emergency Dispatch Center and office
  - The National Police Commissioners Civil Defence Department.
  - The Icelandic Coast Guard and the MRCC
  - The National Police Commissioners Communications Centre
  - The Reykjavík area Fire Department



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# ICE SAR command system



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ElSSARNetið þýðir umfarir 24/7

National SAR Command Operations National SAR Regional SAR commands

ced SAR commanders Ising the public the capital differences areas around the co

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# The civil protection system

- 27 civil protection committees within 15 police districts
- Responsible for local disaster management
- ICE-SAR Local Area Command works within the system when mobilized

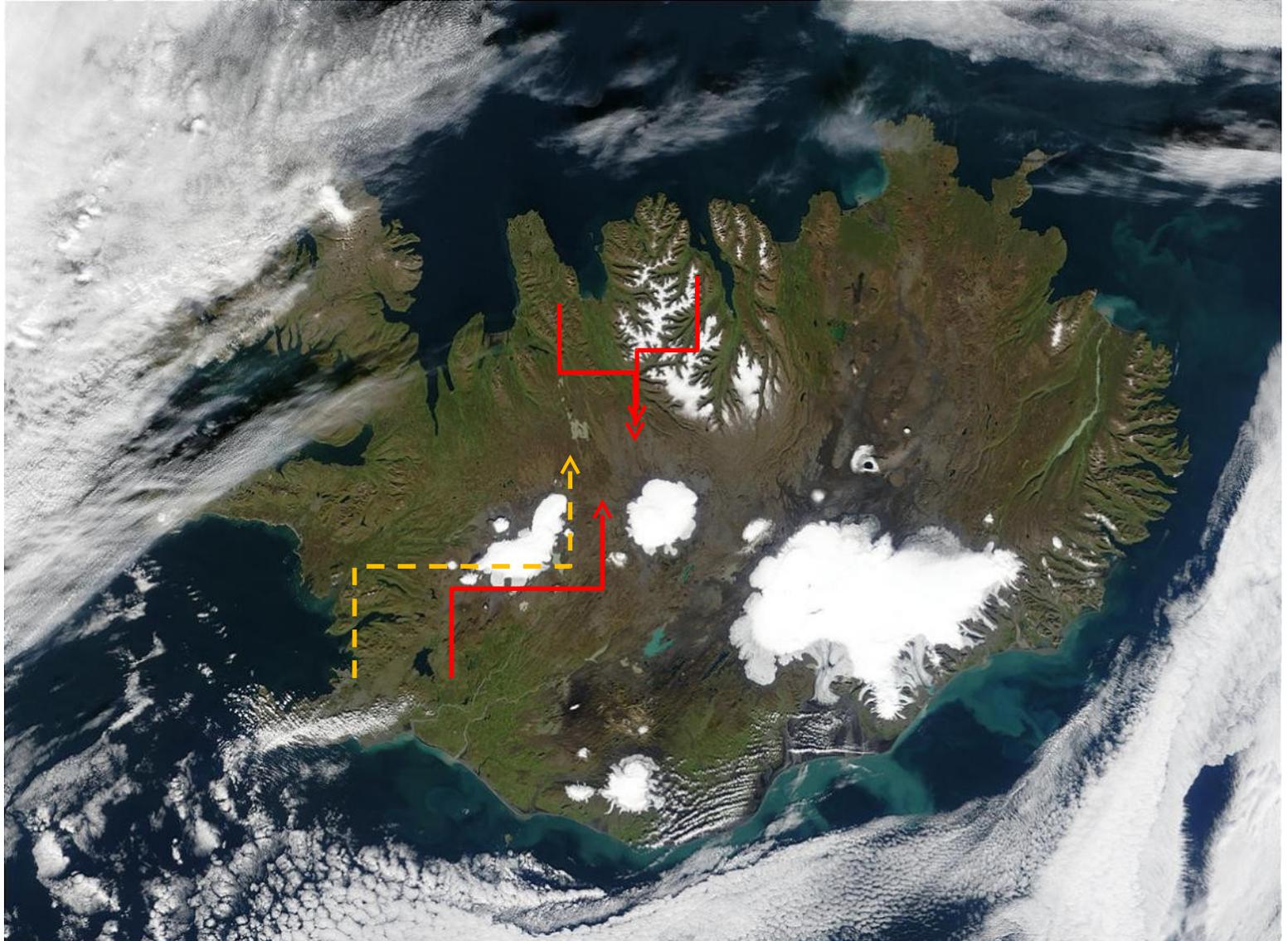
On duty ICE-SAR personnel are also other responders

Case Study:

# Hofsjökull Glacier Rescue 2006



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# Case Study:

Hengjue

2006



Case Study:

# Hofsjökull Glacier Rescue 2006



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- Command at JRCC
  - Police
  - ICE SAR National SAR
  - Coast Guard
  - Reykjavík Fire Department
- Area commands dispatch them on to the scene
- On-Scene command



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# 112

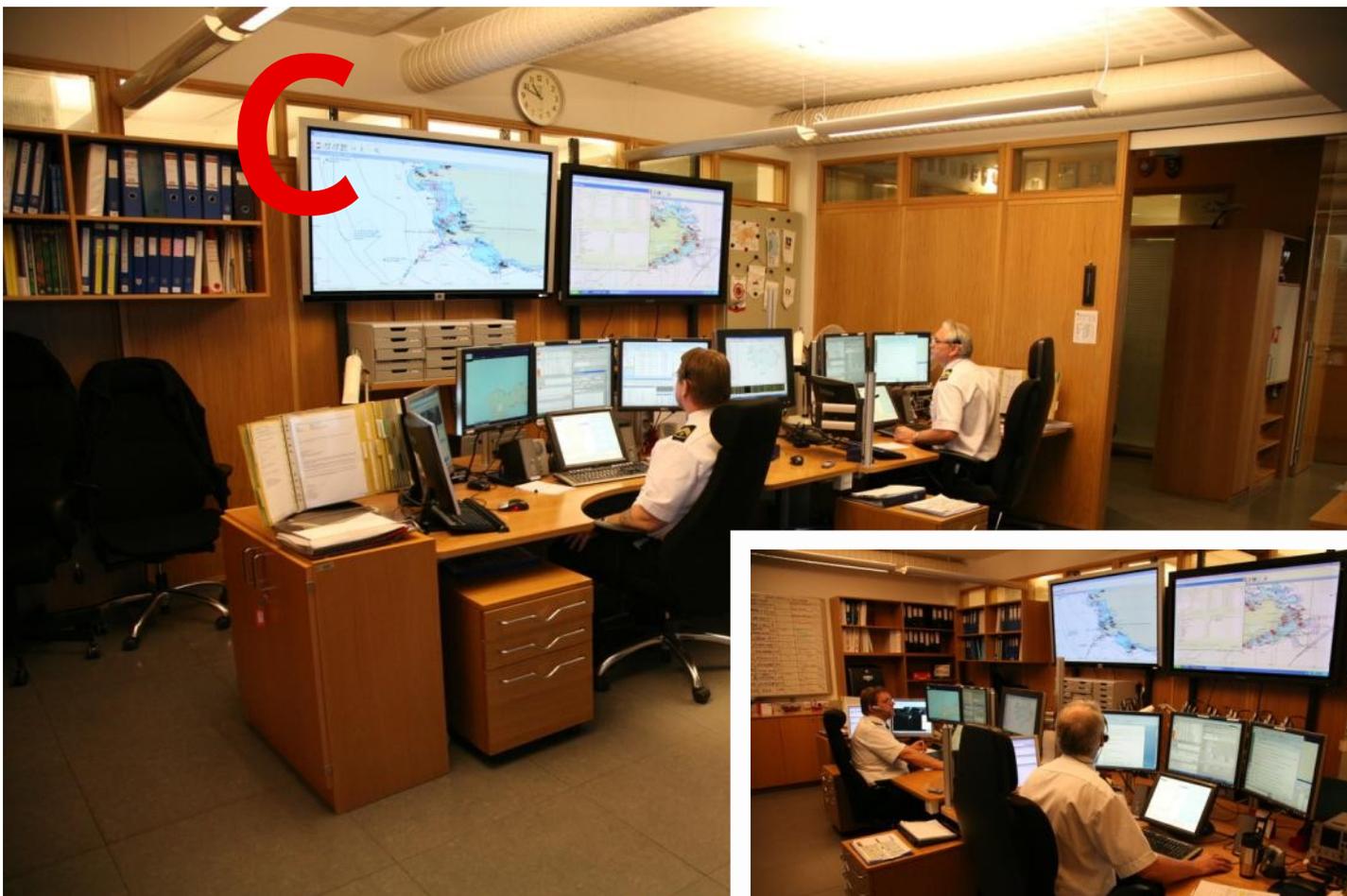
A look inside...



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# MRC

A look inside...



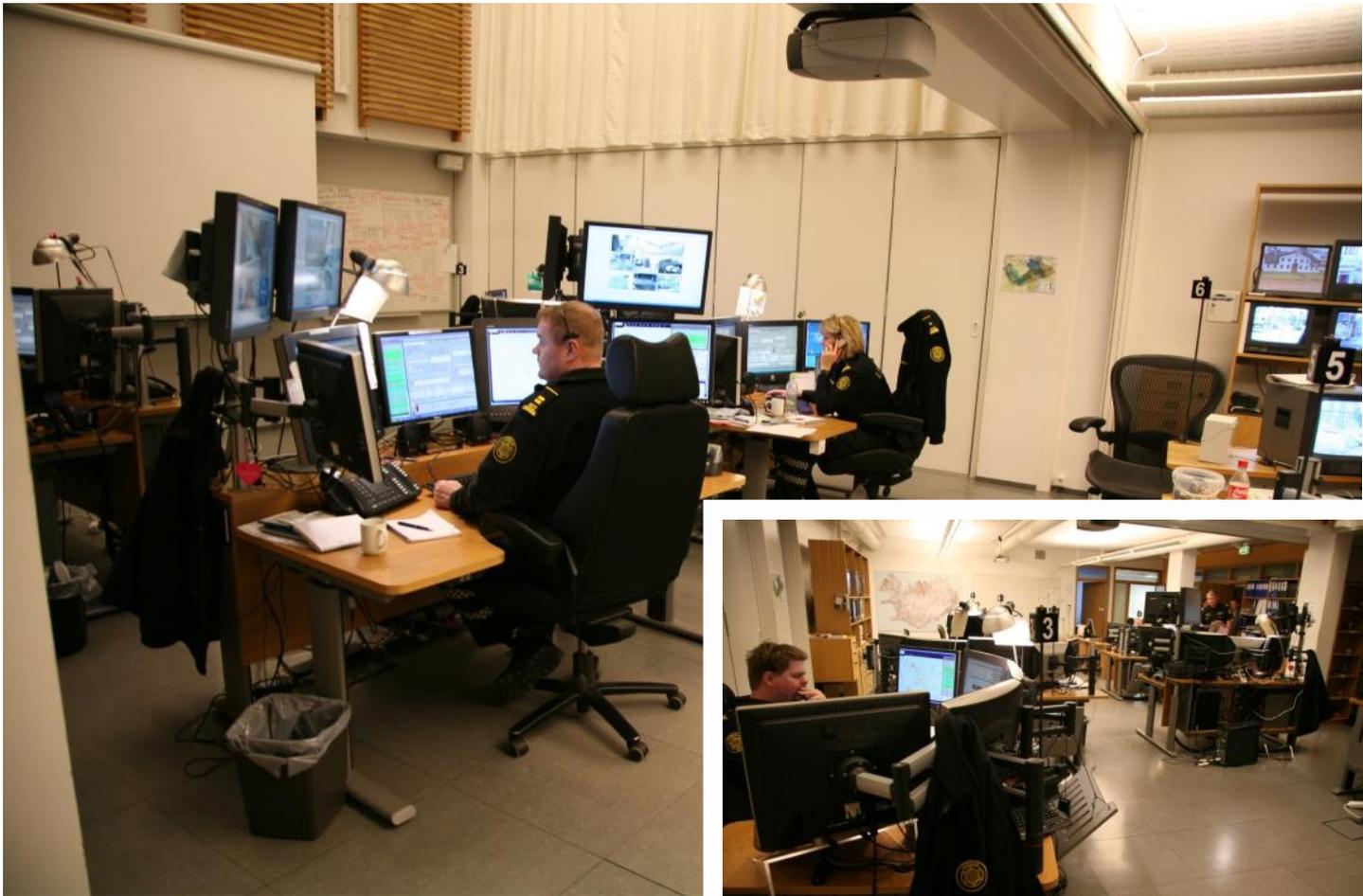
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# Police Comm

A look inside..



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# JRC

A look inside...



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Case Study:

# The Skaftafell Search - August 2007



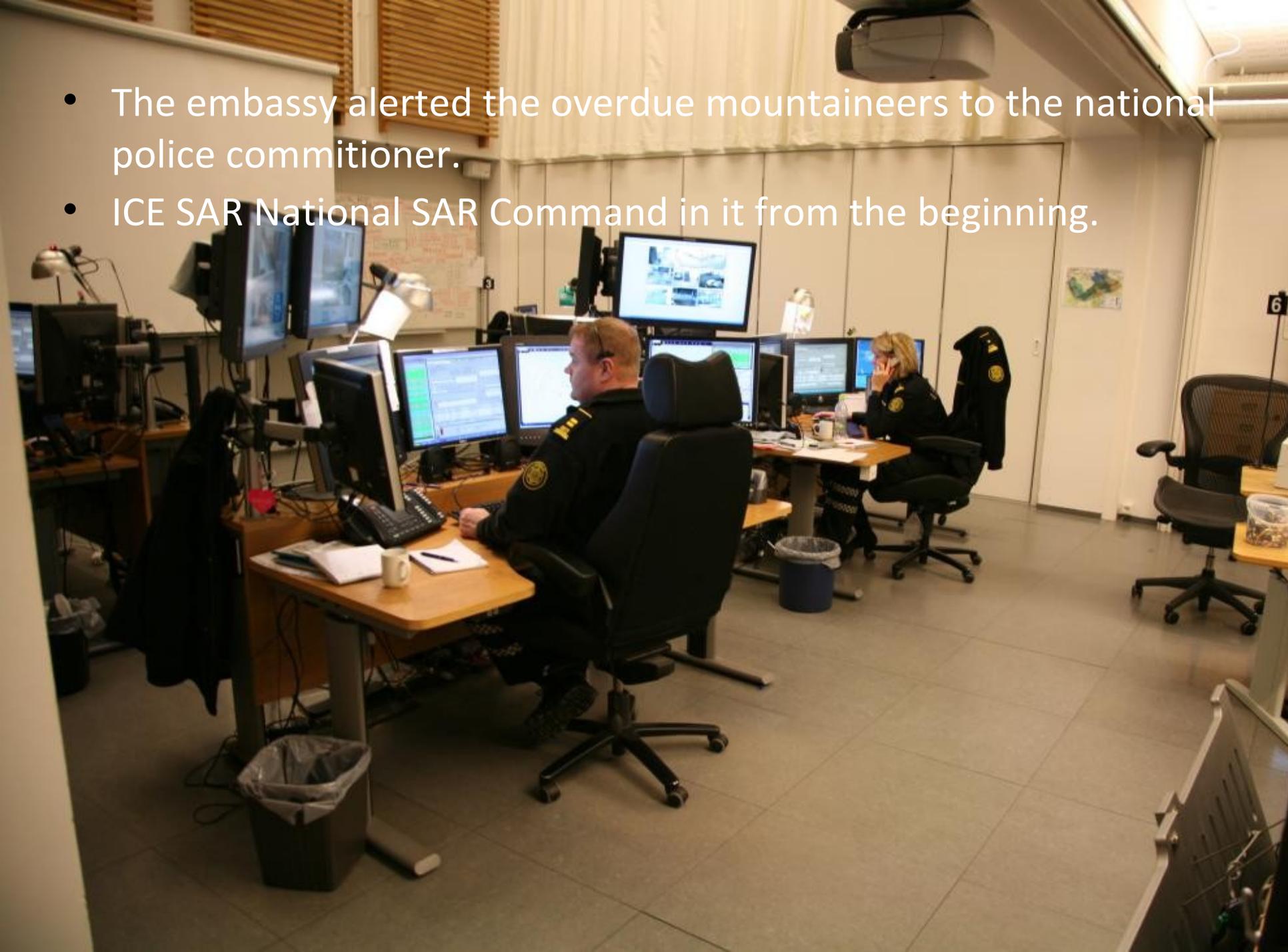
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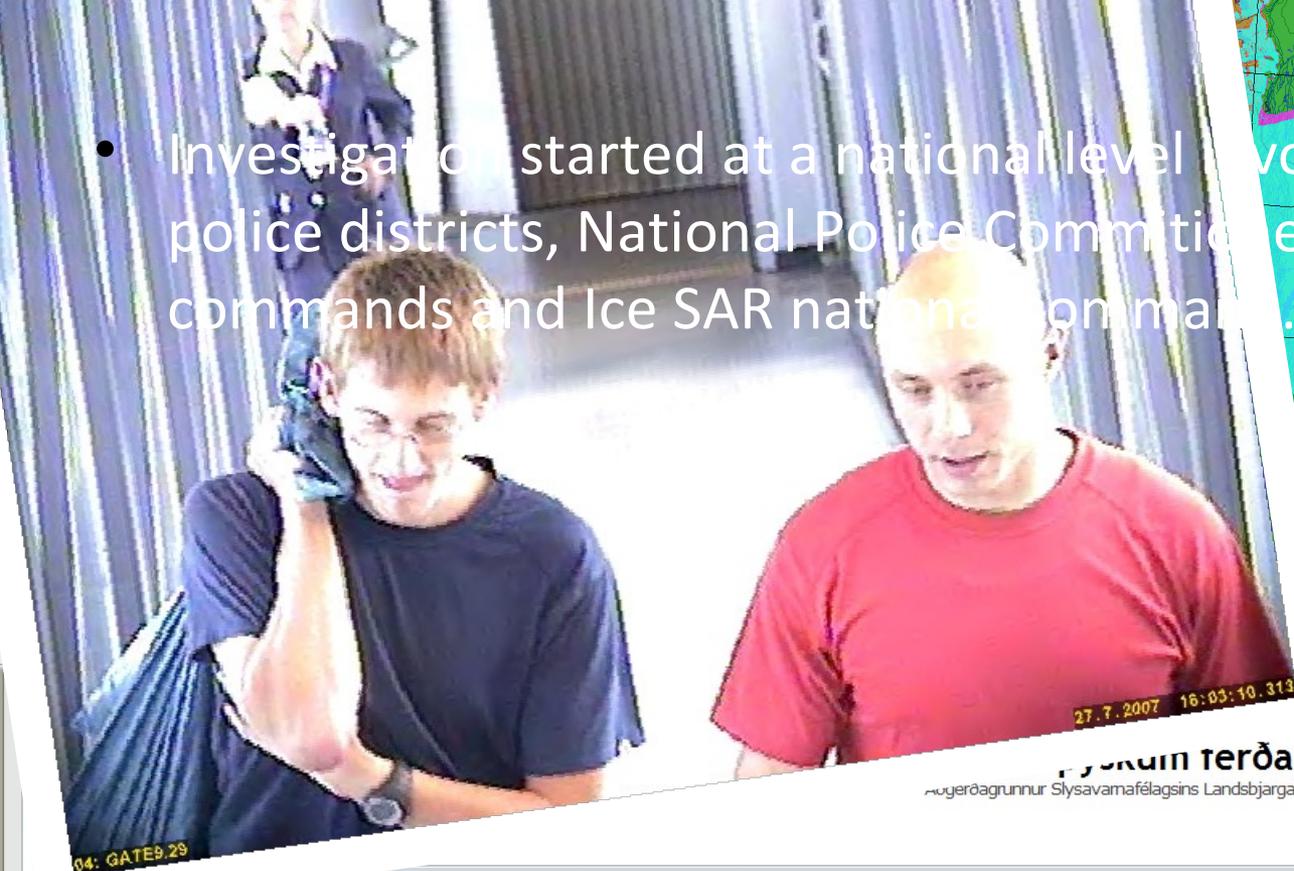
Two German mountaineers Matthias Hinz and Thomas Grundt never showed up for their return flight

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- The embassy alerted the overdue mountaineers to the national police commissioner.
- ICE SAR National SAR Command in it from the beginning.



- Investigation started at a national level involving 4-5 different police districts, National Police Commissioner, 4-5 ICE SAR area commands and Ice SAR national command.



**Þýskum ferðamön**  
Huggerðagrunnur Slysavarnafélagsins Landsbjargar

**Almennar upplýsingar**

Nafn aðgerðar* :	Leit að tveimur þýskum ferðamönnum		
Tegund* :	Leit að týndri persónu	Svæði* :	Svæði 01, Svæði 04, Svæði 09, Svæði 11, Svæði 13
Dagsetning :	19. ágúst 2007 - Kl. 14:19	Stofnandi :	Oddur E Kristinsson
Fjöldi skráðra sveita/hópa :	21 sveitir í 50 hópum	Fjöldi einstaklinga :	174
Staða á aðgerð :	Fimmta aðgerðarlota	Sími í stjórnstöð :	
Fyrstu upplýsingar :	Matthias Hinz og Thomas Grundt. Þeir hugðust ferðast um Ísland og m.a. fara í ísklífur og fjallgöngur í nágrenni Skaftafells og Vatnajökuls. Síðast er vitað um ferð þá gistu þeir á tjaldsvæðinu í Laugardal í Reykjavík, segir í tilkynningu frá lögreglu. Thomas Grundt. Matthias er 29 ára, 174 sm á hæð, fremur grannvaxinn, með ljósum hár. Thomas er 24 ár 185 sm á hæð, grannvaxinn með ljóst hár og notar gleraugu..		

**Aðgerðaskráning**

22:41	Fundi lokið með foreldrum T þar sem farið var yfir... meira! ( Jónas Guðmundsson )
14:57	Víðir hjá Ríkislögreglustjóra hefur samband við Jó... meira! ( Jónas Guðmundsson )
12:35	Í ljósi aðstæðna á vettvangi og að talið sé að búí... meira! ( Erlingur E. Guðmundsson )

**Verkefni**

[Ekkert er skráð!]

50 síðustu verkefni - Birta öll verkefni

Vinnuborð : Stjómun - Áætlanir - Þjargir - Framkvæmdir

**Hópar**

[Enginn hópur skráður!]

50 síðustu hópar - Birta alla hópa eða hópa

Eventually led to the highest peak in Iceland, Hvannadalshnjúkur, 2110m



Local ICE SAR Area command set up onscene command with police and backup from ICE SAR National Comm



Investigation and planning kept on in the JRCC















Case Study:

# The Skaftafell Search - August 2007

- At the National RCC
  - ≈ 6-8 ICE SAR and 1-2 National Police and 1 Coast Guard
- At the local RCC
  - ≈ 4-6 ICE SAR and 1 Local Police
- Searching:
  - 180 ICE SAR
  - 70 ICE-SAR vehicles (SuperJeeps, trucks, snowmobiles etc.)
  - 4-8 ICE SAR area search dogs
  - 1 ICE SAR tracking dogs
  - 2 Coast Guard helicopters and crew

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Case Study:

# The Skaftafell Search - August 2007



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environment around Iceland's highest peaks investigation

Further investigation in more than one area by local CESAR area commands and local police. National CESAR command and national police

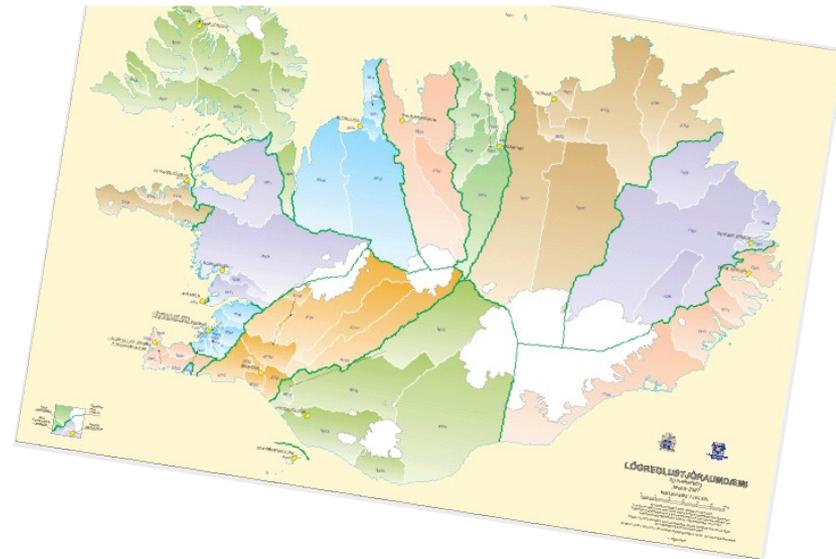
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# Resources- Police

- Responsible for SAR on land
- 15 Police districts
- Most districts outside the capital area have small forces.
- SAR training is minimal and



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Case Study:

# South Coast earthquakes May 2008

- 6,1-6,3
- 440 ICE SAR Vol
- Police
- Fire department
- Hospitals
- Red Cross volu
- Ambulance ser
- Many others...



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Case Study:

# South Coast earthquakes May 2008

- On-scene command in 3 different places
- The Civil Protection system was not used
- JRC C staffed with people from all parties.
- The on-scene command was not used



# Case Study: South Coast earthquakes May 2008

- Checking every single local people
- Icelandic houses are v
- Urban SAR remains
- Urban SAR training is teams
- More preplanning wou





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# Resources- Coast Guard

- Responsible for MRCC
- 3 Helicopters (Super Pumas)
- 3 vessels
- 1 Fokker Friendship
- Dive team
- Operate from Reykjavík



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# Resources - Fire Departments



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- Fire and hazmat
- Paramedics and ambulances
- Divers (Rvk)
- A small Rescue Team



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# Resources - Red Cross



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- Mass Relief
- Social assistance
- Relief centers
- Psychological s



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100 björgunarsveitir á landinu  
3000 manns á vakt 24/7

Útköll

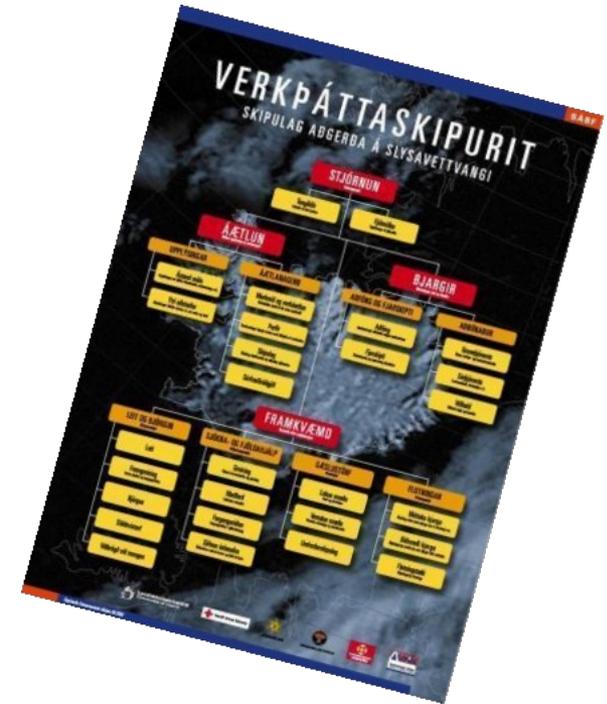
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# Our version of CIMS

- Familiar system?
- All emergency responders in Iceland are using that same system (or at least should be... )

Logistics

IC



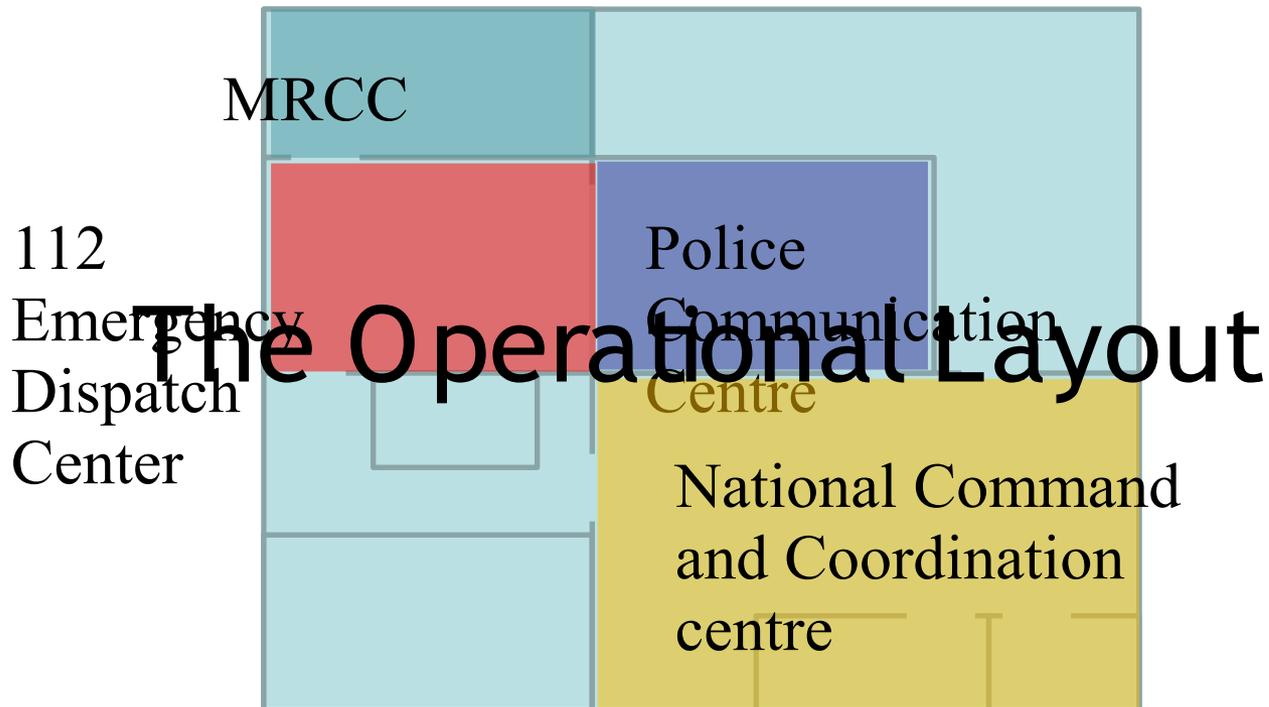
Planning

Operations

# Living together since 2004



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