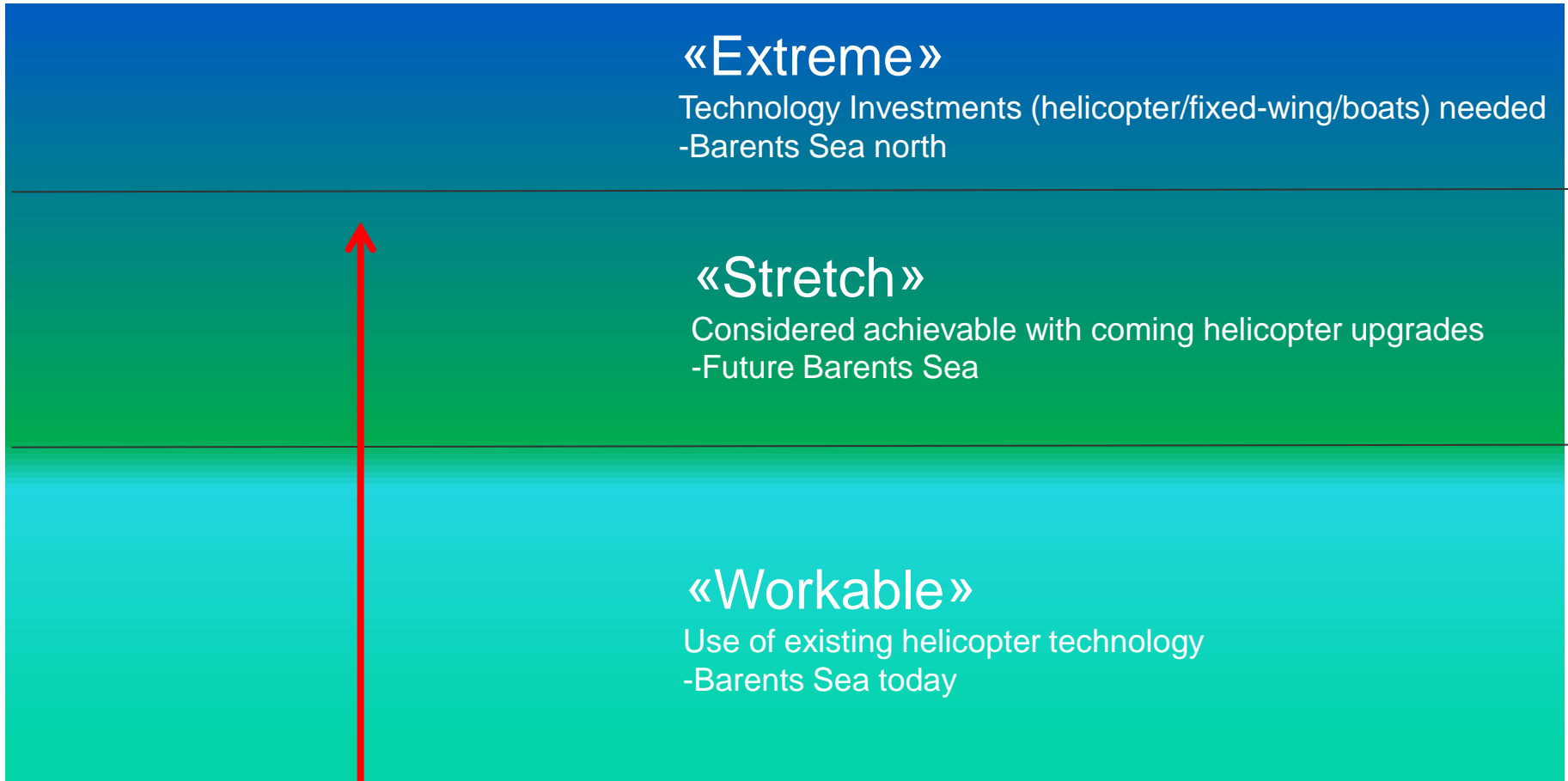


# Dagens og framtidens helikoptre, Infrastruktur, operative erfaringer og begrensninger



Erik Hamremoen, Statoil og Pål Overland, Bristow

# Aviation offshore frontiers (radius)



# BARENTSHAVET

Longyearbyen

Longyearbyen

Hopen

Atlantis

Apollo

Wisting

Goliat

Berlevåg

Honningsvåg

Banak

Alta







Bjørnøya



Atlantis  
Apollo



Johan Castberg



Wisting Alternative Wisting Central

Golliat

TOS SOU ALF LKL HAA HFT HVG MEH BVG BJV VAW VDS KKN

319 km

Image Landsat  
Image IBCAO

Google earth

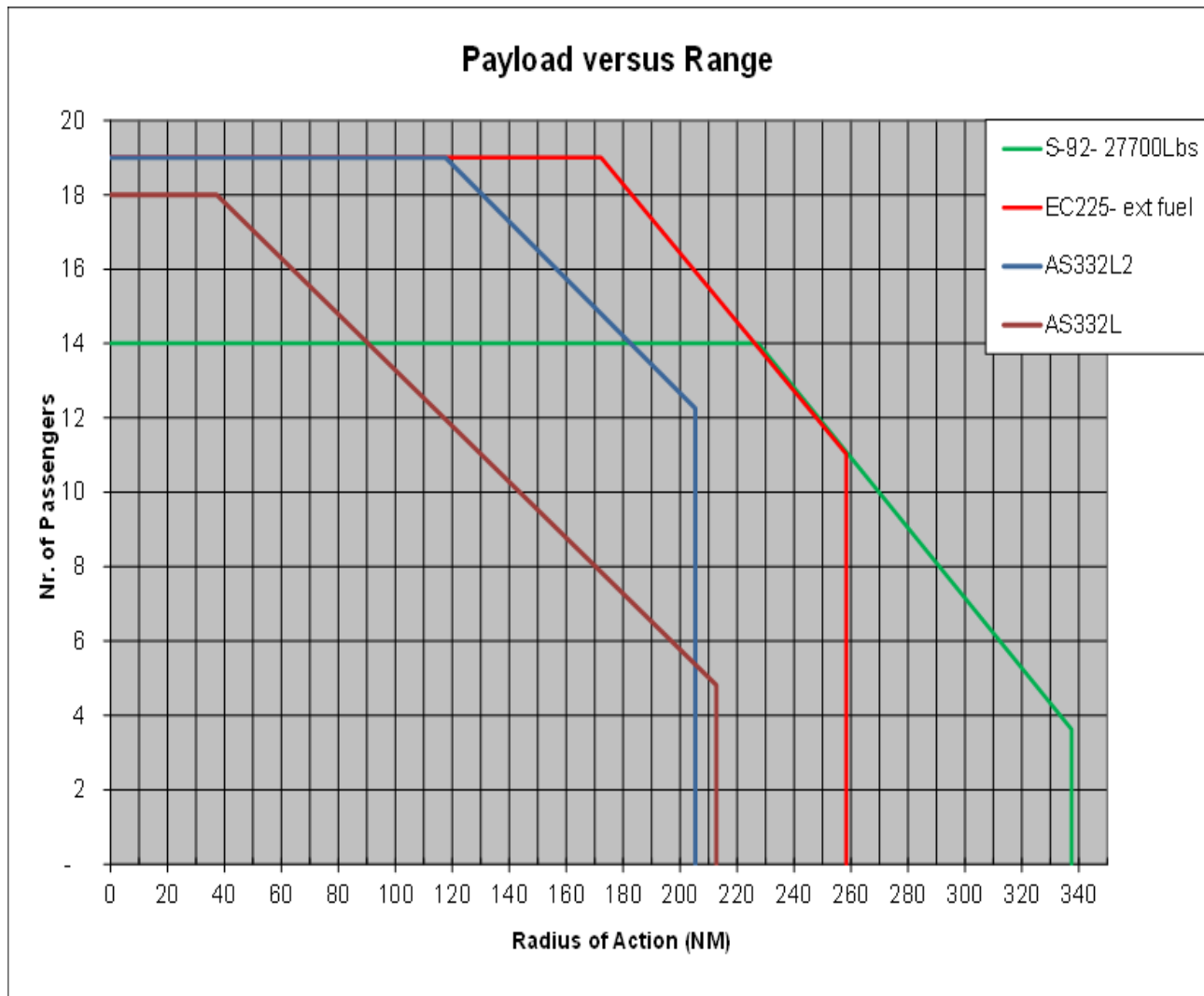
# Airbus Helicopter EC225



# Sikorsky S-92



# Payload today





# Additional measures

1. Transmitting directly online EKG etc via video to the main regional hospital onshore.
2. Night Vision Goggles (NVG) for SAR and back up for transport helicopters
3. Insolated survival suits (6 hours)
4. Auxiliary fuel tanks



# Next generation

- Long range
- High speed



# Erfaringer / utfordringer

- Kommunikasjon
- Vær
- Payload
- Beredskap
- Teknologi

# SKYTRACK

SkyWeb v3.22.12 - Microsoft Internet Explorer provided by Norsk Helikopter AS

https://skyweb0.skytrac.ca/SkyMap/Default.aspx

File Edit View Favorites Tools Help

File View Aircraft Tools Preferences Help N 70 49 49, E 20 08 56 2D Google 1 : 1,500,000

where Find

Kart Satellitt Hybrid Terreng

In-Flight On-Ground Powered-Down  
0 0 2

Events  
There are no new events  
Updates  
There are no new updates

Transocean Leader

LN-ONF  
Latitude: N 70 40 46  
Longitude: E 23 40 23

LN-ONG  
Latitude: N 70 40 47  
Longitude: E 23 40 23

Assets	Start/On	Air/Up	Air/Down	End/Off	Start Position	End Position	Air Time	Flight Time
LN-ONF	09:26 May 21	10:45 May 21	10:45 May 21	10:45 May 21	0.01 nm SE HFT Base	0.01 nm NW HFT Base	00:00	01:19
LN-ONG	10:34 May 19	12:22 May 19	12:22 May 19	12:22 May 19	0.01 nm W HFT Base	0.01 nm WSW HFT Base	00:00	01:48
	06:26 May 19	08:12 May 19	08:12 May 19	08:12 May 19	0.02 nm WSW HFT Base	0.01 nm WSW HFT Base	00:00	01:46
	06:11 May 19	06:24 May 19	06:24 May 19	06:24 May 19	0.01 nm WSW HFT Base	0.02 nm WSW HFT Base	00:00	00:13

powered by Google

20 mi 20 km

ops\_1 Status Flight Log 4 flights by callsign Next poll in 7 seconds

Done

Start SkyTrac.ca - Home - Micr... SkyWeb v3.22.12 - Micr... SAR Annual Helicopter Tr... Document1 - Microsoft ...



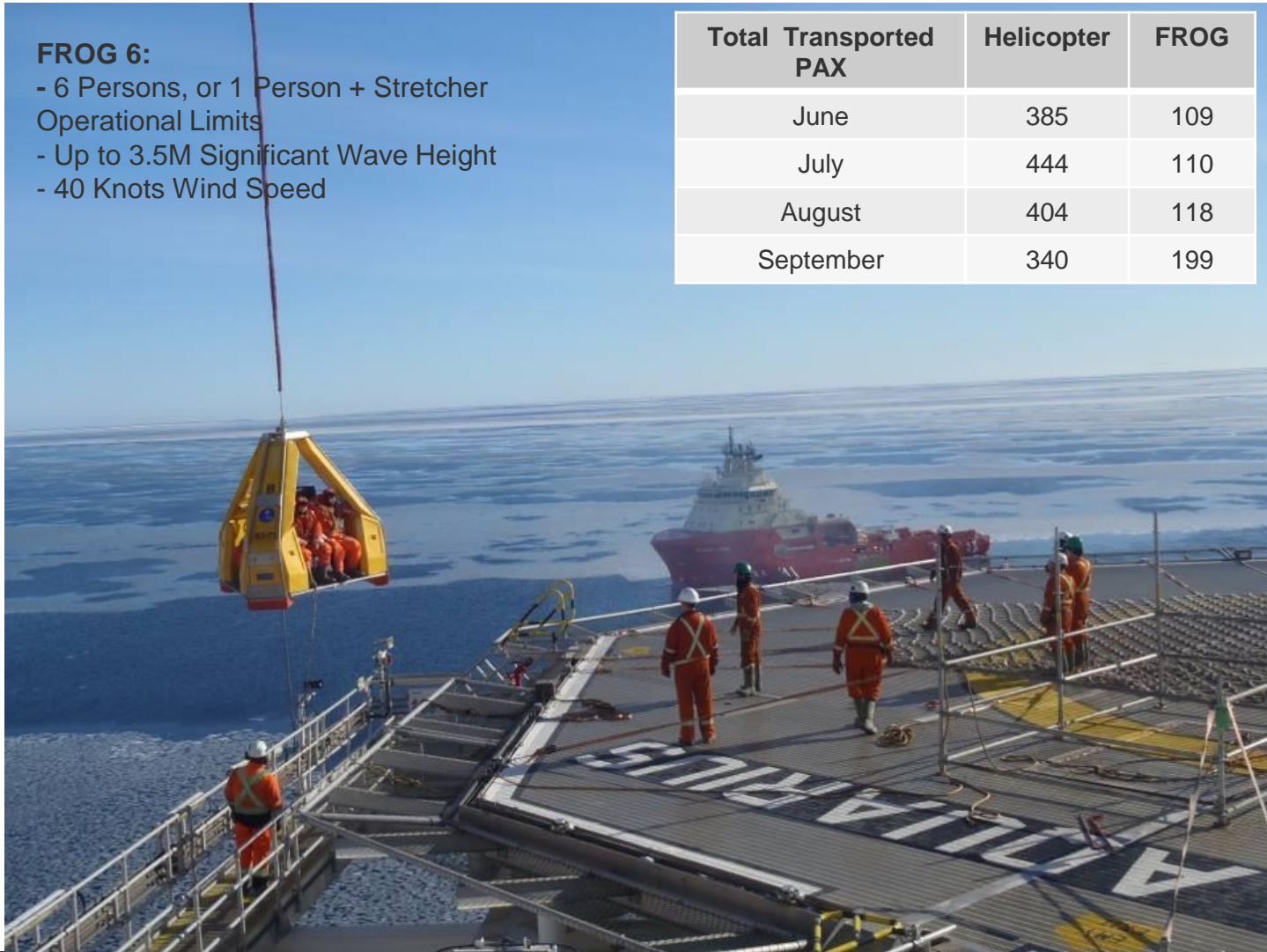


# BASKET/FROG (St.Johns Canada today)

## FROG 6:

- 6 Persons, or 1 Person + Stretcher
- Operational Limits
- Up to 3.5M Significant Wave Height
- 40 Knots Wind Speed

Total Transported PAX	Helicopter	FROG
June	385	109
July	444	110
August	404	118
September	340	199



# Sea travel and walk to work



# Barents sea - Perseevsky well 2020

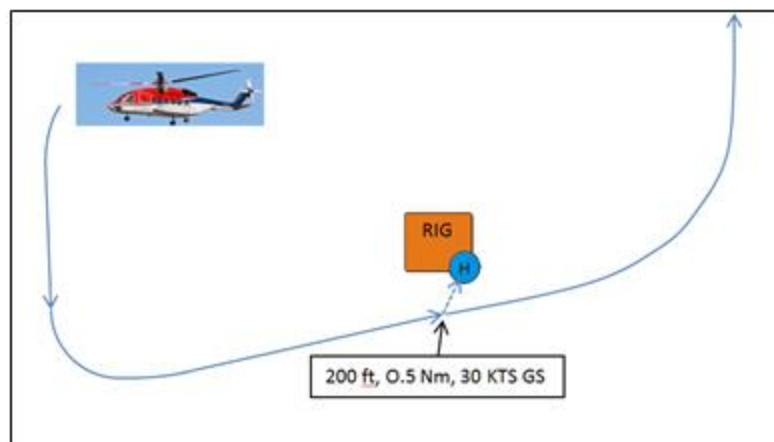




## ONSHORE



- Fleksibel innflyging/steilere nedstigning => **Muliggjør reduksjon av støy gener**
- Autopilot - koblet i alle akser til 200 fot => **Redusert risiko**



## OFFSHORE

- Autopilot – koblet i alle akser til minimum 200 fot med vesentlig lavere hastighet – uten endring av retning => **Redusert risiko**
- Samme er gjeldende under avgang fra RIG eller avbrutt innflyging => **Redusert risiko**
- Større mulighet for at nå helidekk i dårlig vær => **Bedre regularitet**

### S92 - Nødvendig utstyr:

Dobbelt FMS (status=Enkel) + RIG approach

Pris pr. helikopter: xxxxxxxxxx Nkr



# Spørsmål?

