

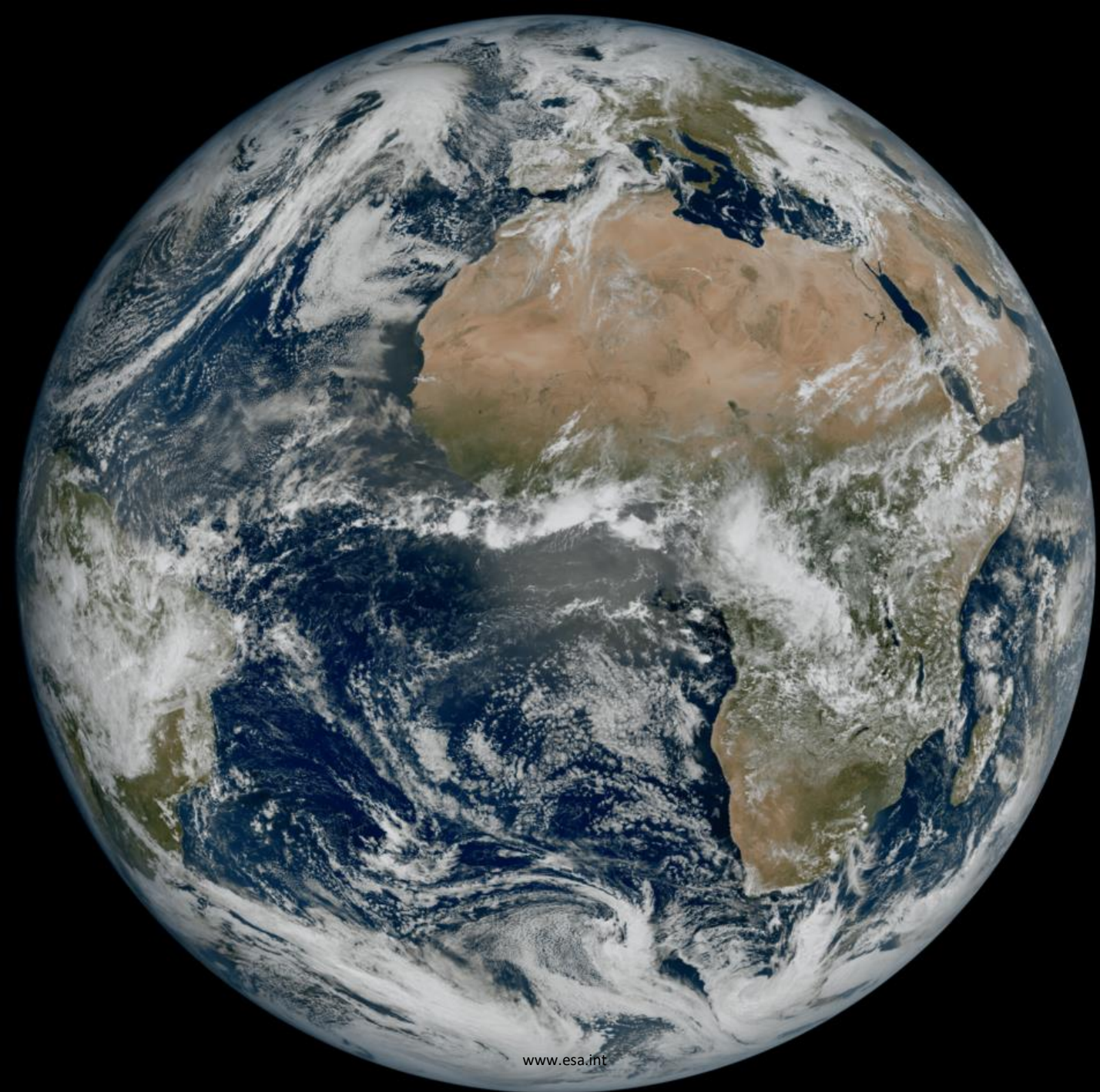
Veðurforsagnir í væntu

Bárður A. Niclasen, deildarleiðari

Veðurstova Føroya

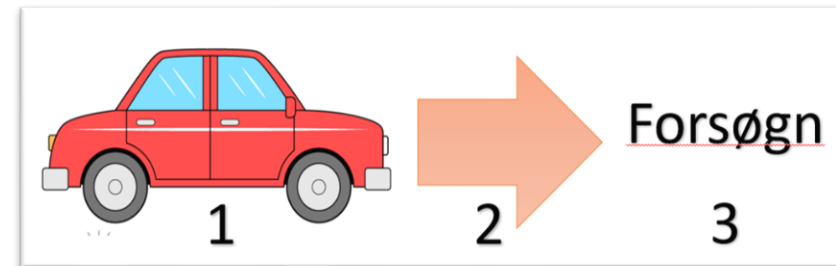
Innihald

- Grundleggjandi um veðurforsagnir
- Veðurstova Føroya í dag
- Hvat vit miðja móti næstu tíðina ... og uppá sikt



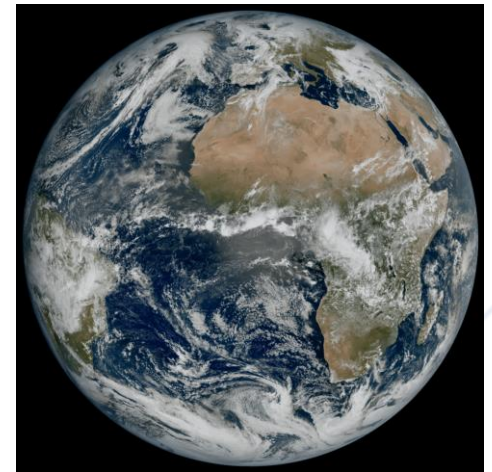
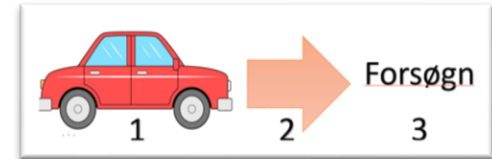
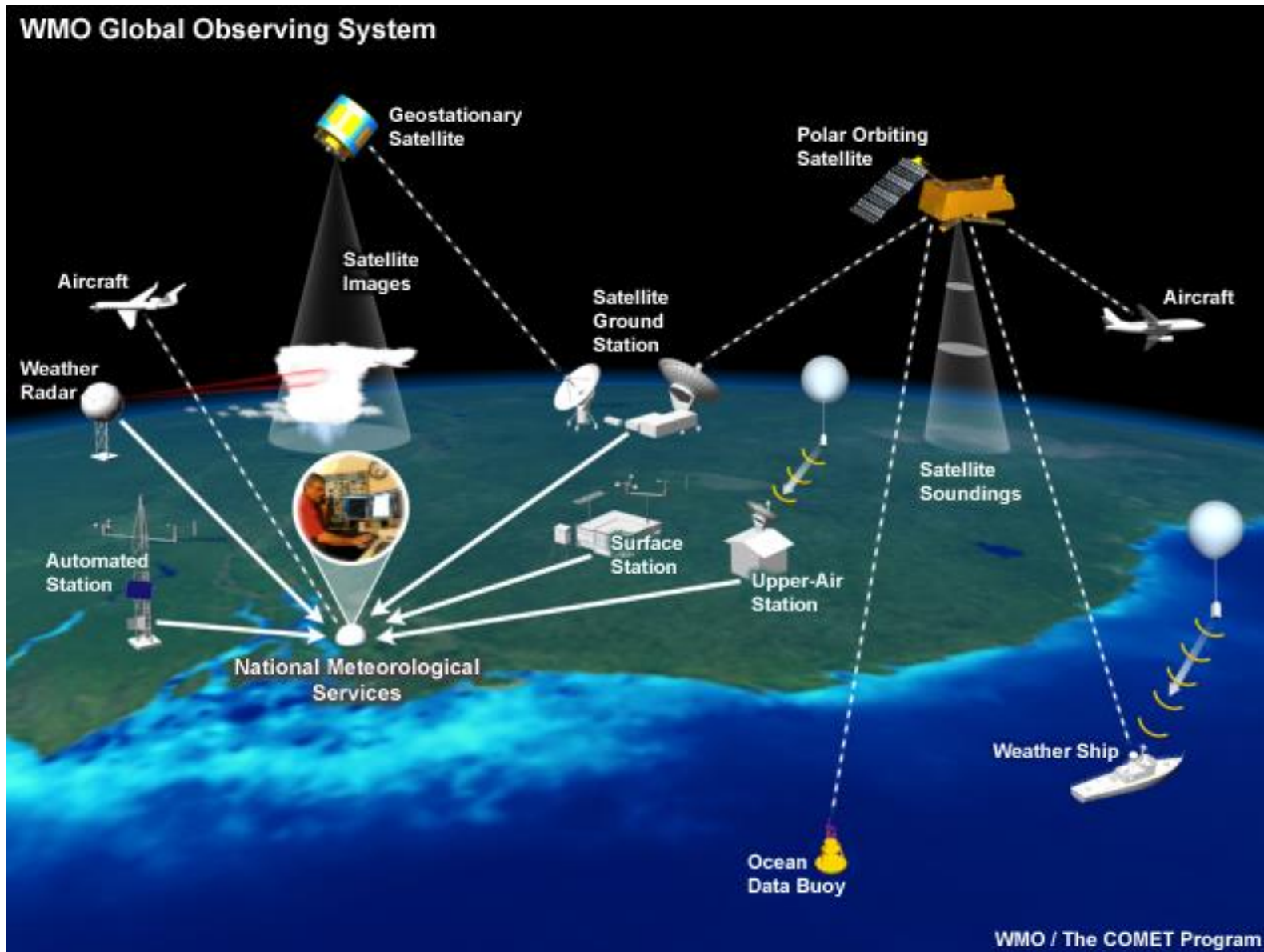
www.esa.int

At spáa um veðrið:

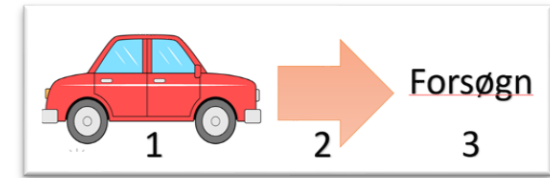
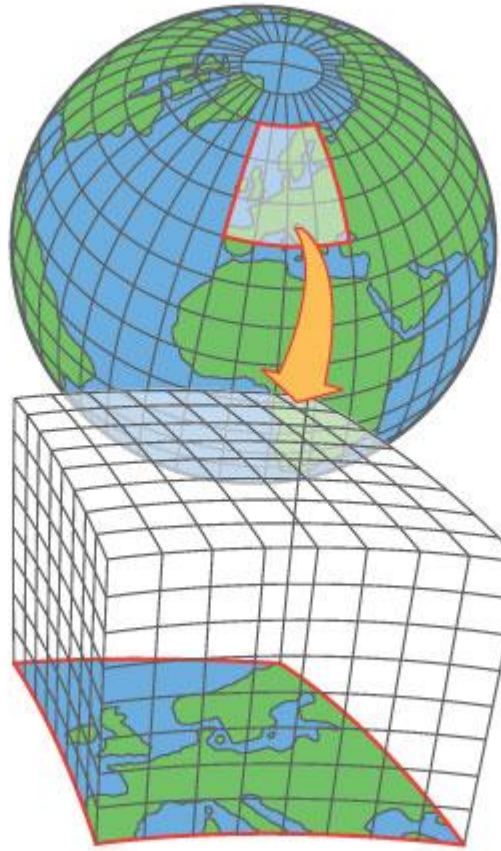


- 1: Byrjanarstöðan?
- 2: Líkningar/model
- 3: Framtíðin?

1.stig: byrjanarstöðan

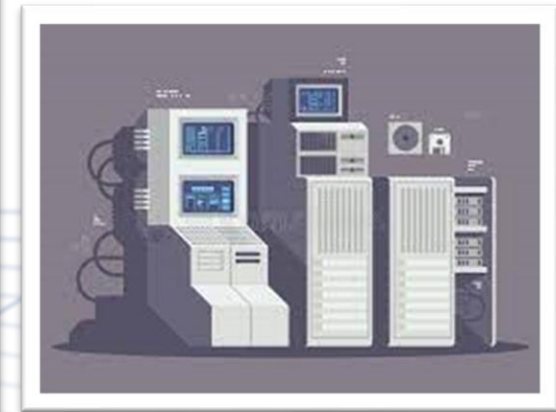


2. stig: rokna

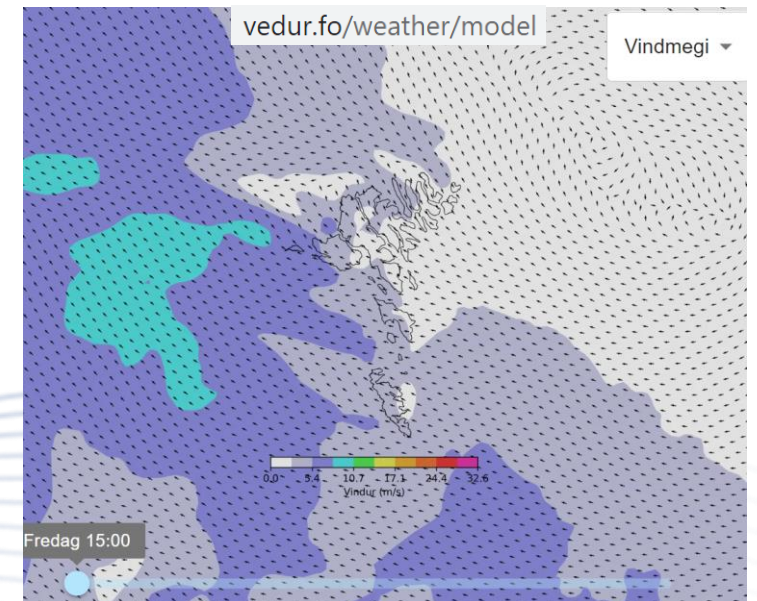
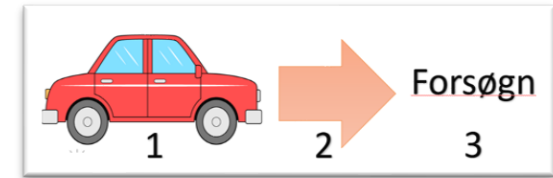
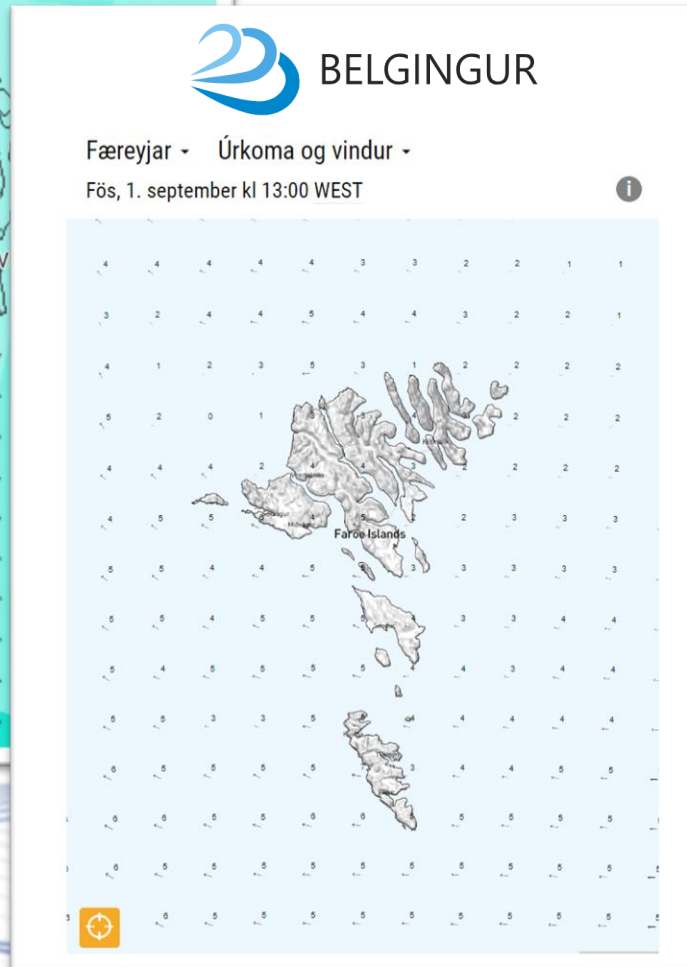
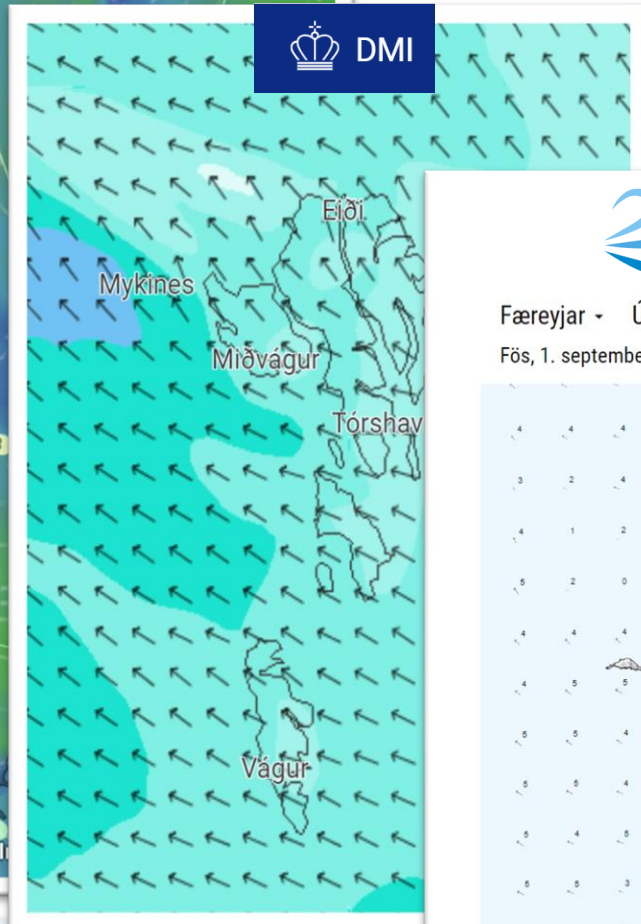
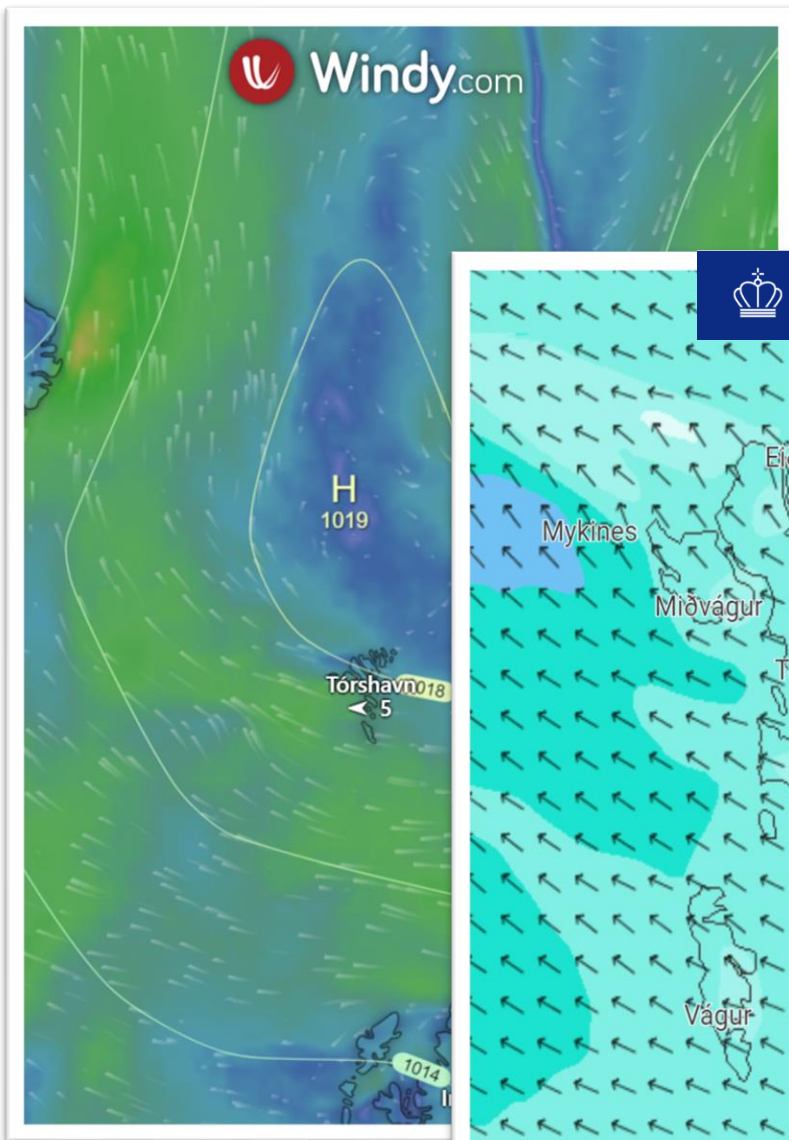


Navier Stokes Equation with Gravity and Coriolis

Acceleration		Coriolis		Buoyancy		Friction
Advection			Pressure Grad			
↓	↓	↓	↓	↓	↓	↓
$\frac{\partial \bar{u}}{\partial t}$	$+ \bar{u} \nabla \bar{u}$	$+ \bar{f} \times \bar{u}$	$= - \frac{1}{\rho_0} \nabla p$	$- \bar{b}$	$+ \nu \nabla^2 \bar{u}$	
$\frac{\partial u_i}{\partial t}$	$+ u_j \frac{\partial u_i}{\partial x_j}$	$+ \varepsilon_{ijk} f_j u_k$	$= - \frac{1}{\rho_0} \frac{\partial p}{\partial x_i}$	$- b_i$	$+ \nu \frac{\partial^2}{\partial x_i^2} u_i$	
$f_i = 2\Omega \sin(\theta) \delta_{i3}$ $2\Omega = 1.5 \times 10^{-4} \text{ sec}^{-1}; \theta$ Latitude						
$b_i = \frac{\Delta \rho}{\rho_0} g \delta_{i3}$						
$\nabla = \frac{\partial}{\partial x_i}$ $\nabla^2 = \frac{\partial^2}{\partial x_i^2}$						



3. stig: forsøgnin



**Bárður A. Niclasen**

Deildarleiðari, PhD

+298 231320

bardurn@vorn.fo

**Andrias Klein
Gregoriussen**

Veðurfrøðingur, MSc

+298 231321

andriaskg@vorn.fo

**Turið Laksá**Veðurfrøðingur, MSc - í
barsilsfarloyvi

+298 231322

turidl@vorn.fo

**Hanus Kjølbro**Veðurfrøðingur,
Skipsførari

+298 231323

hanusk@vorn.fo

Hvør eru vit?

**Rúnar Alix
Rasmussen**

Veðurfrøðingur, MSc

+298 231324

runar.alix.rasmussen@vorn.

**Djóni Strømsten**

KT-mennari, BSc

+298 231326

dfs@vorn.fo

**Turið Poulsen**

Veðurfrøðingur, PhD


+298 231328

turidp@vorn.fo



Hvar eru vit



VIS VORN	VIS FOKKUNINGUFRITID	VIS MIKK	VIS BRAR	VIS TALAÐ	VIS VEBRETTIR
					
Bárður A. Niclasen Deildarleiðari, PhD +298 231320 bardurn@vom.fo	Andrias Klein Gregoríussen Veðurfraeingur, MSc +298 231321 andriaskg@vom.fo	Turíð Laksá Veðurfraeingur, MSc - í baráilsfarloyvi +298 231322 turid@vom.fo	Hanus Kjølbro Veðurfraeingur, Skiptafarari +298 231323 hanusk@vom.fo		
					
Rúnar Alix Rasmussen Veðurfraeingur, MSc +298 231324 runar.alix.rasmussen@vom.	Djóni Strømsten KT-mennari, BSc +298 231326 dfs@vom.fo	Turíð Poulsen Veðurfraeingur +298 231328 turidp@vom.fo			



GÓÐAN MORGUN FØROYAR



Hvat gera vit

vedur.fo

Heim Triðindi

15 ^{oo}	16 ^{oo}	17 ^{oo}	18 ^{oo}	19 ^{oo}	20 ^{oo}	21 ^{oo}
☁ 10°	☁ 11°	☀ 11°	☁ 11°	☀ 10°	☁ 10°	☁ 9°
▼ 2%	▼ 3%	▼ 3%	▼ 3%	▼ 3%	▼ 2%	▲ 2%

01. sep. | ☀ Sólarris: 06:15 | ☀ Sólsetur: 20:37

Forsøgnir í samstarvi við DMI

24 tíma forsøgn 5 daga forsøgn **Havforsøgn**

Fríggjadagur, 1. september 2023

Forsøgn galdandi til á middegi leygardagin, skrivað klokkan 07.05 UTC.

Vindávaring er fyri Ytrabanka og Íslandsryggin

Eitt hátrýst, um 1015 hPa, mennist yvir Norskahavi. Eitt veikt luftrák er í dag eystanefir, seinni av landsynningi og so sunnan.

Ytribanki:
Eystan 6 til 11 m/s. Í kvøld landsynningur 6 til 11 m/s. Í nátt og fyrrapartin í morgin sunnan 11 til 16 m/s. Hampuligt ella gott sýni.

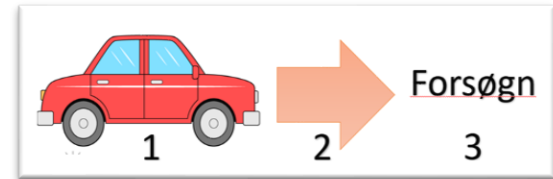
Munkagrunnur:
Eystan 3 til 8 m/s. Í kvøld og í nátt landsynningur og sunnan 3 til 8 m/s. Fyrrapartin í morgin í vestara parti sunnan 7 til 12 m/s; í eystara parti sunnan 5 til 10 m/s. Gott sýni.

Fugloyabanki:
Ymsar ættir minni enn 6 m/s. Í kvøld og í nátt í vestara parti sunnan 4 til 9 m/s; í eystara parti sunnan minni enn 6 m/s. Fyrrapartin í morgin sunnan 8 til 13 m/s. Gott sýni.

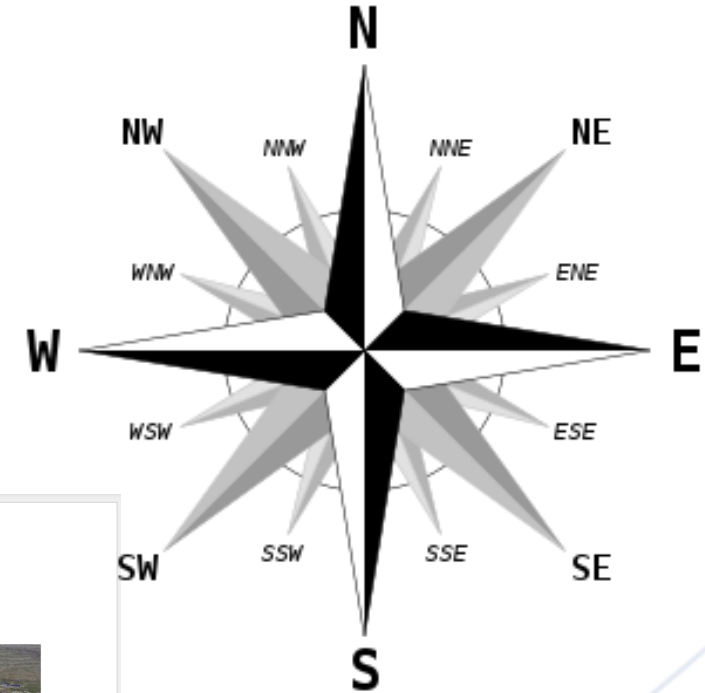
Íslandsryggur:
Millum eystan og sunnan 3 til 8 m/s. Í kvøld og frameftir sunnan 13 til 18 m/s. Hampuligt ella vánaligt sýni.



Hvat máta vit



Verkætlan: Staðarveður



VEÐRIÐ Í VESTMANNA



FEBRUAR 2023

VEÐURSTOVA FØROYA

Síða 1 av 18

VEÐRIÐ Í LEIRVÍK



JANUAR 2023

VEÐURSTOVA FØROYA

Síða 1 av 18

VEÐRIÐ Í TÓRSHAVN

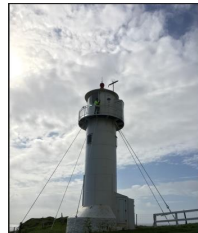


OKTOBER 2022

VEÐURSTOVA FØROYA

Síða 1 av 13

Verkætlan: Hagtøl/klima



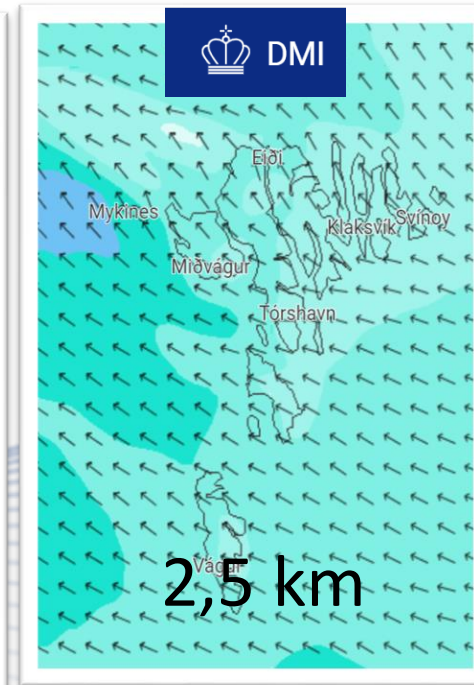
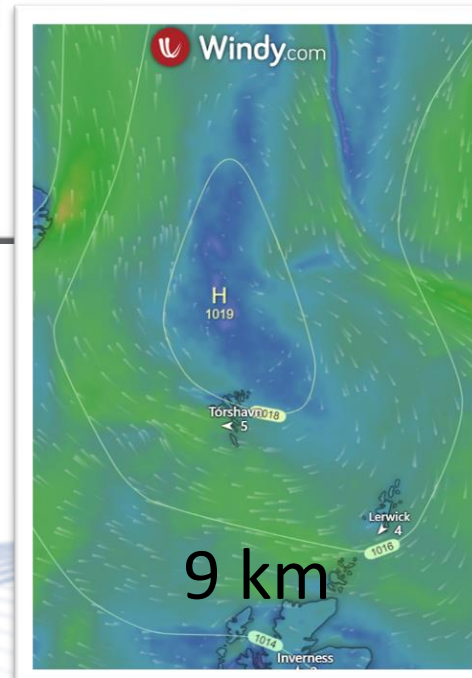
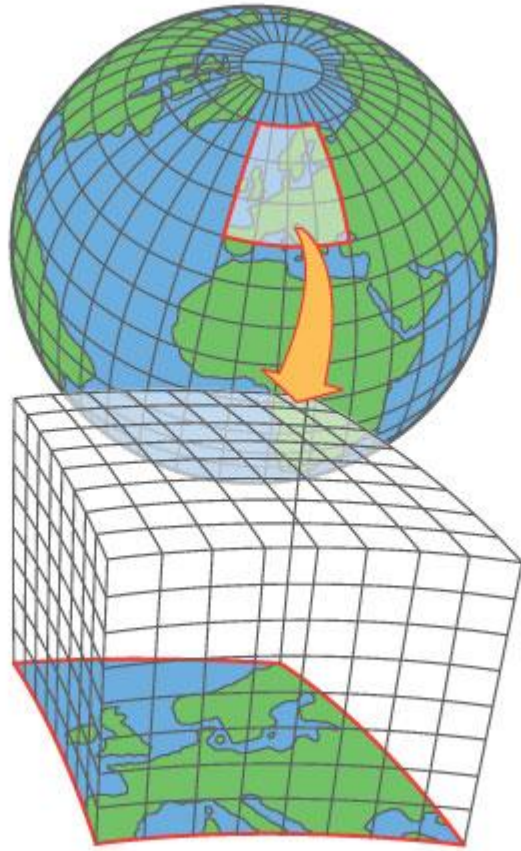
THORSHAVN. (oprettet som hovedstation 73 12.9.72)

F. S. [28.11.51]

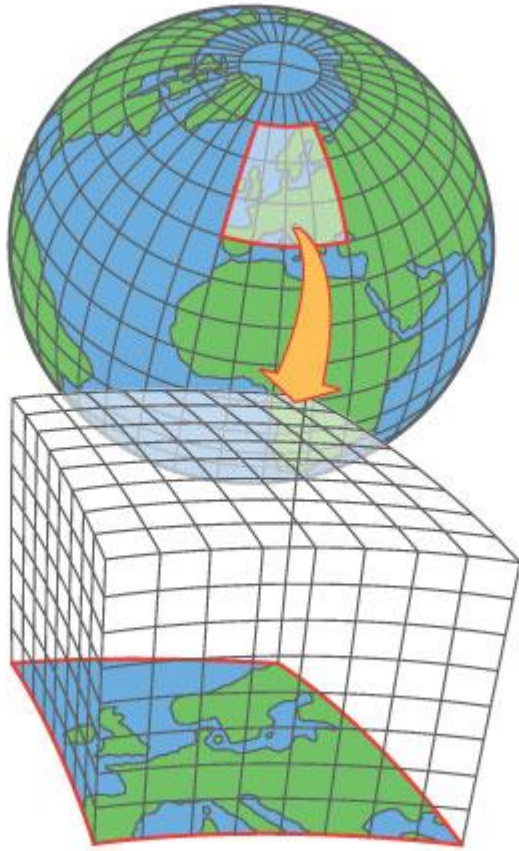
1872. Oktober.	Barometer, red. t. 0° C. Millimeter.			Thermometer. Celsius.					Damptryk. Tension de la vapeur. Millimeter.			Fugtighedsgrad. Humidité de l'air. pOt.			Nedbør. Haut. d. pl. Millim.	Vindens Retning og Styrke. Direction et force du vent. Skala: 0-6.			Skydækket. Quant. de nuages. Skala: 0-4.			Vejrliget*. Etat du temps.			Havets Varme. Température de la mer. Celsius.							
	8.	2.	9.	8.	2.	9.	Mini- mum.	Maxi- mum.	8.	2.	9.	8.	2.	9.	obs. 2.	8.	2.	9.	8.	2.	9.	8.	2.	9.	8.	2.	9.					
	a. m.	p. m.	p. m.	a. m.	p. m.	p. m.			a. m.	p. m.	p. m.	a. m.	p. m.	p. m.		a. m.	p. m.	p. m.	a. m.	p. m.	p. m.	a. m.	p. m.	p. m.	a. m.	p. m.	p. m.					
1	748.3	744.1	738.4	5.2	7.6	7.0			5.6	6.0	6.3	84	77	84	2.6	NNØ	2	NO	2	NØ	2-3	3	3	4				Rb	R	R	9.7	
2	36.1	36.5	36.4	5.9	5.8	3.4			5.7	5.6	5.1	83	82	87	21.3	NØ	2-3	NO	3-4	NNØ	4-5	4	4	4				R	R	R	9.2	
3	35.0	36.5	47.8	3.2	2.0	1.6			5.2	4.5	4.6	90	85	89	26.8	N	4-5	N	4-5	N	4-5	4	4	4				R	SI	SI	8.6	
4	55.8	62.0	66.3	1.4	3.7	2.2			4.0	3.0	3.5	78	51	65	9.2	N	3-4	N	2-3	NV	1	3	3	3				SLb	NI	NI	8.6	
5	62.4	58.7	53.8	5.6	6.9	8.7			5.0	5.2	7.5	74	70	89	3.4	S	2-3	S	2-3	SV	2	4	4	4				R	R	R	8.1	
6	55.3	53.8	45.8	10.2	10.9	11.0			8.3	7.2	9.2	90	74	94	2.5	SV	1	S	1	SØ	2-3	3	3	4				Rb	R	R	9.4	
7	47.0	47.6	46.3	9.4	9.3	8.8			6.5	6.3	6.2	74	72	73	8.1	SV	3	SSV	3	SSV	3	3	3	3				Rb	Rb	NI	9.2	
8	44.2	43.2	40.6	7.6	7.8	5.6			6.1	5.9	5.8	79	75	85	3.0	SV	2	SSV	1-2	SV	1	3	3	3				R, Hb	Rb	Rb	9.4	
9	39.8	37.6	39.4	6.6	8.8	6.8			6.0	7.3	6.1	83	87	82	2.1	S	1	S	1	VNV	1	2	2	3				Rb	Rb	Rb	9.4	
10	42.9	44.0	46.3	4.6	7.0	4.6			5.3	5.3	5.3	84	71	84	1.8	NØ	1	N	1	N	1	4	2	3				R	R	R	9.2	
11	49.2	50.6	52.5	3.5	6.5	4.5			5.0	6.3	4.9	85	87	78	1.1	N	1	N	1	NNØ	1-2	1	3	1				Rb	R	Rb	8.6	
12	55.1	55.9	55.4	4.9	5.5	4.2			5.4	5.4	4.5	82	80	73	0.7	N	1-2	N	1	NNV	1	3	3	1				Rb	R	Rb	8.6	
13	58.6	58.8	57.3	5.0	6.8	2.8			4.7	4.5	4.8	72	61	86		N	1	N	1	SV	1	2	1	2								8.6
14	53.8	51.3	49.1	8.0	9.0	9.2			7.1	8.1	8.2	89	95	95	4.1	S	1-2	S	1-2	SSV	1-2	4	4	4				R	R	R	8.6	
15	49.4	49.8	49.6	6.6	7.6	3.2			6.0	5.7	5.2	83	73	90	12.1	V	1	VSV	1		0	3	3	1								8.9
16	49.7	52.3	58.4	6.6	7.4	4.9			6.2	6.4	5.2	85	83	79	6.8	N	1	NNØ	1	N	1	3	3	3				R	R		8.6	
17	62.8	62.5	60.9	3.5	4.2	0.2			4.4	4.4	4.2	75	71	90	0.5	N	1	NNØ	1		0	1	2	2				R	R		8.3	
18	57.6	56.7	55.0	6.0	7.7	7.6			3.7	6.4	6.1	82	82	79	0.1	SV	1	SV	2	VSV	1	3	3	4				Rb	R	R	8.9	
19	53.7	49.5	47.5	8.4	9.4	8.5			8.0	8.6	7.9	97	98	96	3.7	Ø	1	SØ	1	SSØ	1	4	4	3				T	R		9.2	
20	41.7	45.8	46.9	8.4	7.6	8.0			7.1	5.7	6.3	87	73	79	3.2	SSV	2	SSV	3	SV	3-4	3	2	3				Rb	Rb	Rb	8.6	
21	49.7	50.7	51.5	7.3	8.1	3.5			5.8	6.3	5.4	76	78	92	3.7	SSV	2	SV	1		0	2	1	1				Rb	R	R	9.4	
22	51.1	50.2	48.2	6.4	6.0	5.3			5.7	5.9	5.5	79	85	83	0.9	NNØ	1	NNØ	1	NNØ	0	4	4	4								9.2
23	45.5	42.8	41.6	3.2	6.6	4.3			5.5	5.7	5.5	83	78	89	12.4	Ø	0	NV	1		0	3	4	2				R	R	R	8.6	
24	41.7	43.4	45.3	8.3	9.0	8.8			6.9	7.5	7.6	86	88	91	1.5	ØSØ	2	ØSØ	2	ØSØ	2	4	4	4				Rb	R	R	8.6	
25	49.0	49.9	50.9	9.2	9.6	9.2			8.3	8.2	8.0	96	92	92	7.0	ØSØ	2	ØSØ	2	ØSØ	2	4	4	4				Rb	R	R	8.1	
26	51.7	50.5	49.9	8.9	9.0	8.6			8.2	8.2	7.9	95	96	95	20.8	Ø	2	ØSØ	2	ØSØ	1	4	4	4				R	R	R	8.9	
27	50.2	51.4	50.7	9.0	9.4	8.8			8.1	8.3	6.8	95	95	81	9.6	S	1	SSØ	1	SØ	1	4	4	4								9.2
28	51.6	50.7	48.2	8.2	9.6	8.8			7.7	8.0	8.0	94	89	95	0.3	S	1	SSØ	1	SØ	1	3	2	4								9.7
29	43.5	36.8	26.9	7.8	8.0	6.6			6.9	6.4	5.7	88	81	78	0.1	S	2	S	3	SSV	3-4	3	4	4				R	Rb	Rb	9.2	
30	14.8	12.1	14.4	8.2	8.0	7.4			6.5	6.9	6.6	81	86	86	10.3	SSV	3-4	SV	3-4	VSV	2-3	3	3	3				Rb	Rb	Rb	8.6	
31	25.9	29.8	36.2	4.8	7.0	5.2			5.9	6.4	5.4	92	85	81	7.7	NV	2-3	NV	2	NØ	1	3	3	3				Rb	Rb	Rb	9.4	
M.															66.4																	

*) R, r = Regn; S, s = Sne; -b = Byger; SI = Slud; T, t = Taage; H, h = Hagel; Td = Torden; L = Lyn; NI = Nordlys.

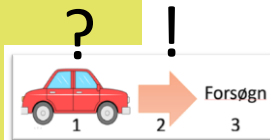
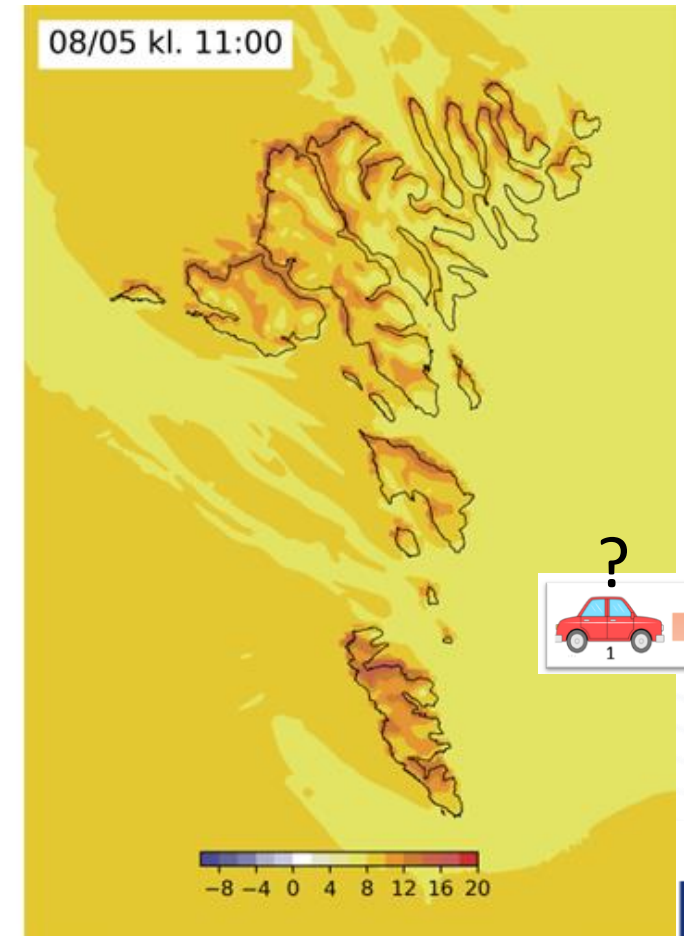
Verkætlan: Lokalt veðurmodel



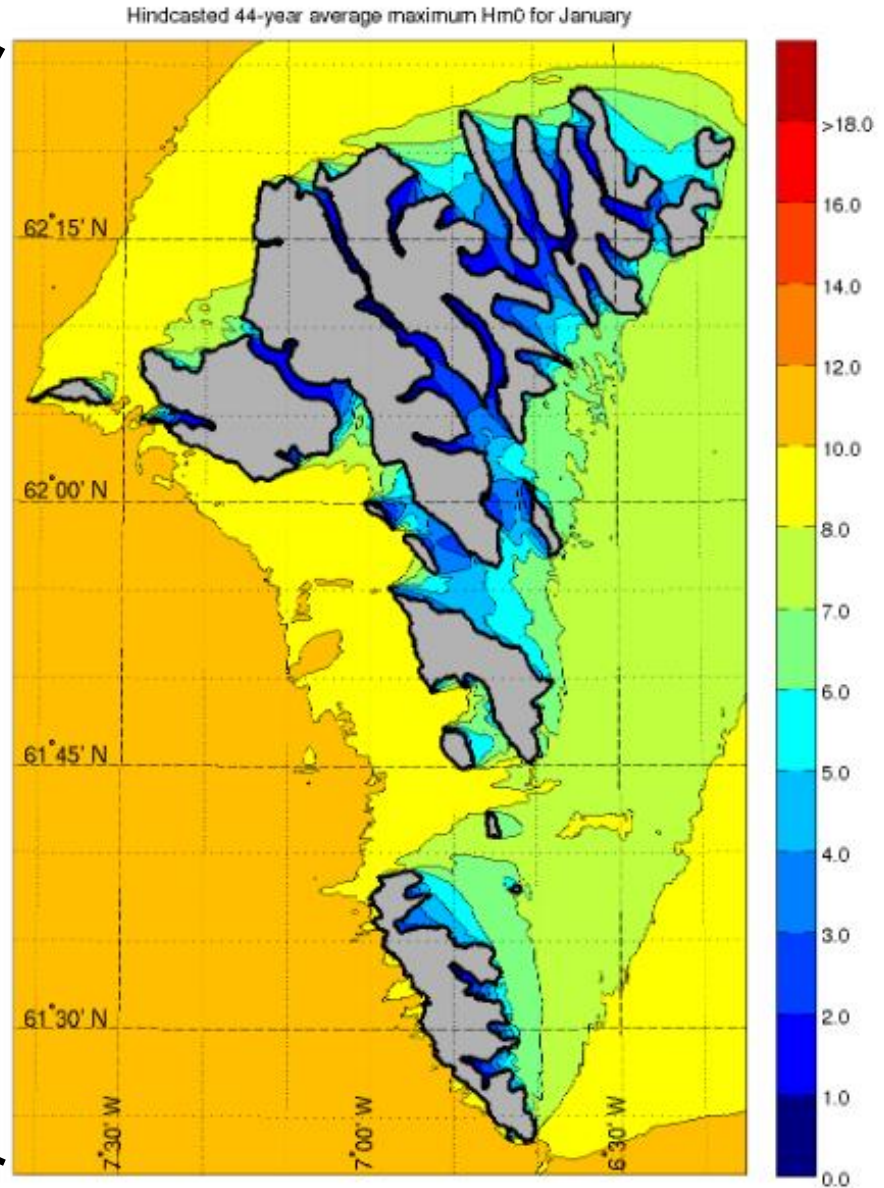
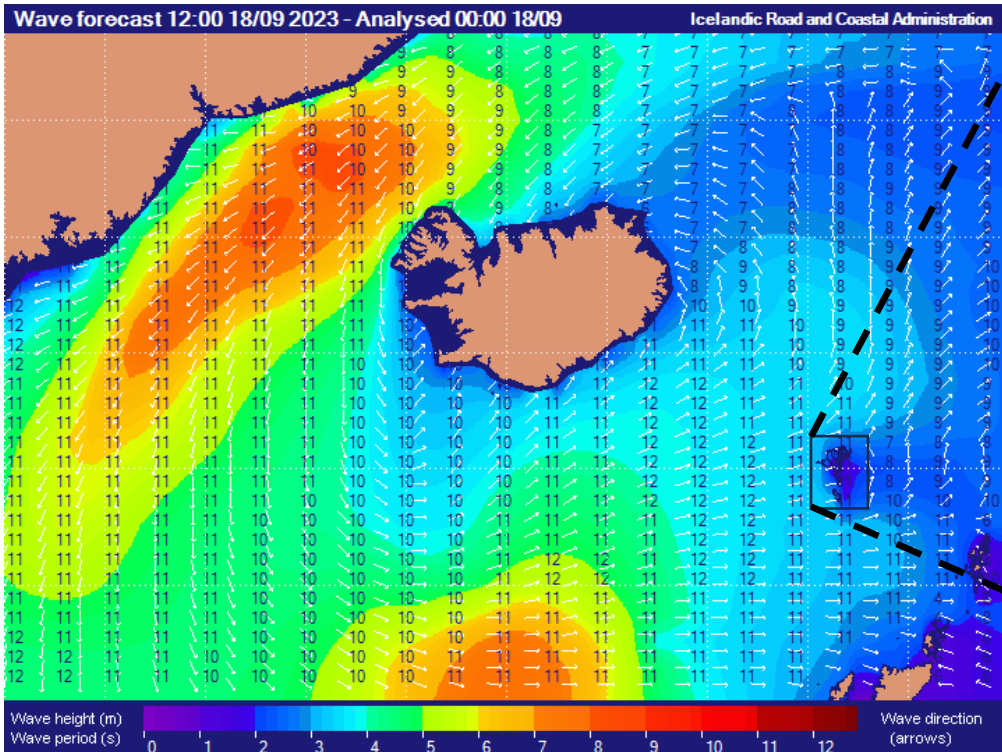
Verkætlan: Lokalt veðurmodel



0,5 km

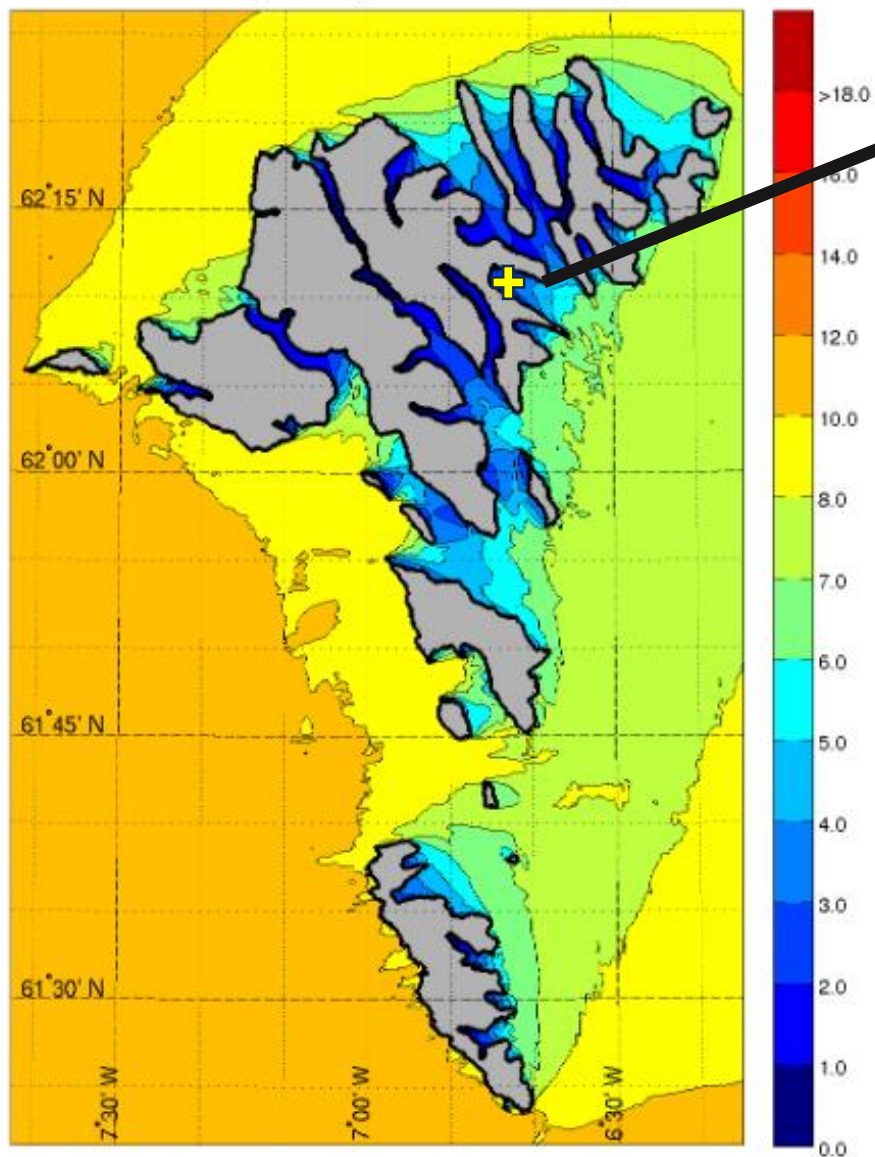


Ætlan: Lokalt aldamodel



Ynski: Lokalt aldamodel við hagtølum

Hindcasted 44-year average maximum Hm0 for January

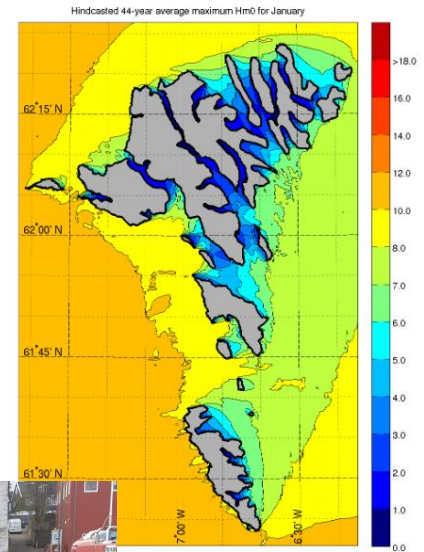


1. Hvat sigur forsøgnin á ávísu staði?
2. Er hetta nógv/lítið í mun til hvat er vanligt á staðnum?
3. Nær er nakað líknandi hent hent fyrr? (Yvirlit yvir stormhendingar)

Ynski: Lokalt aldamodel við ráki



Mynd: Sandvíksfles, Andrias Mouritsen



Ætlan: Veðrið á havinum



1: metta vindferð frá Landsverk alduboyum

2: arbeiða saman um veður/aldu og hav boyu?



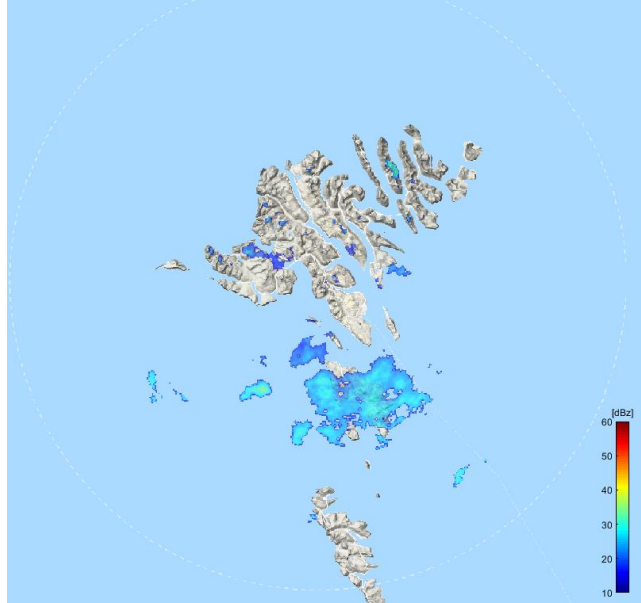
BORGARI

BYGGING

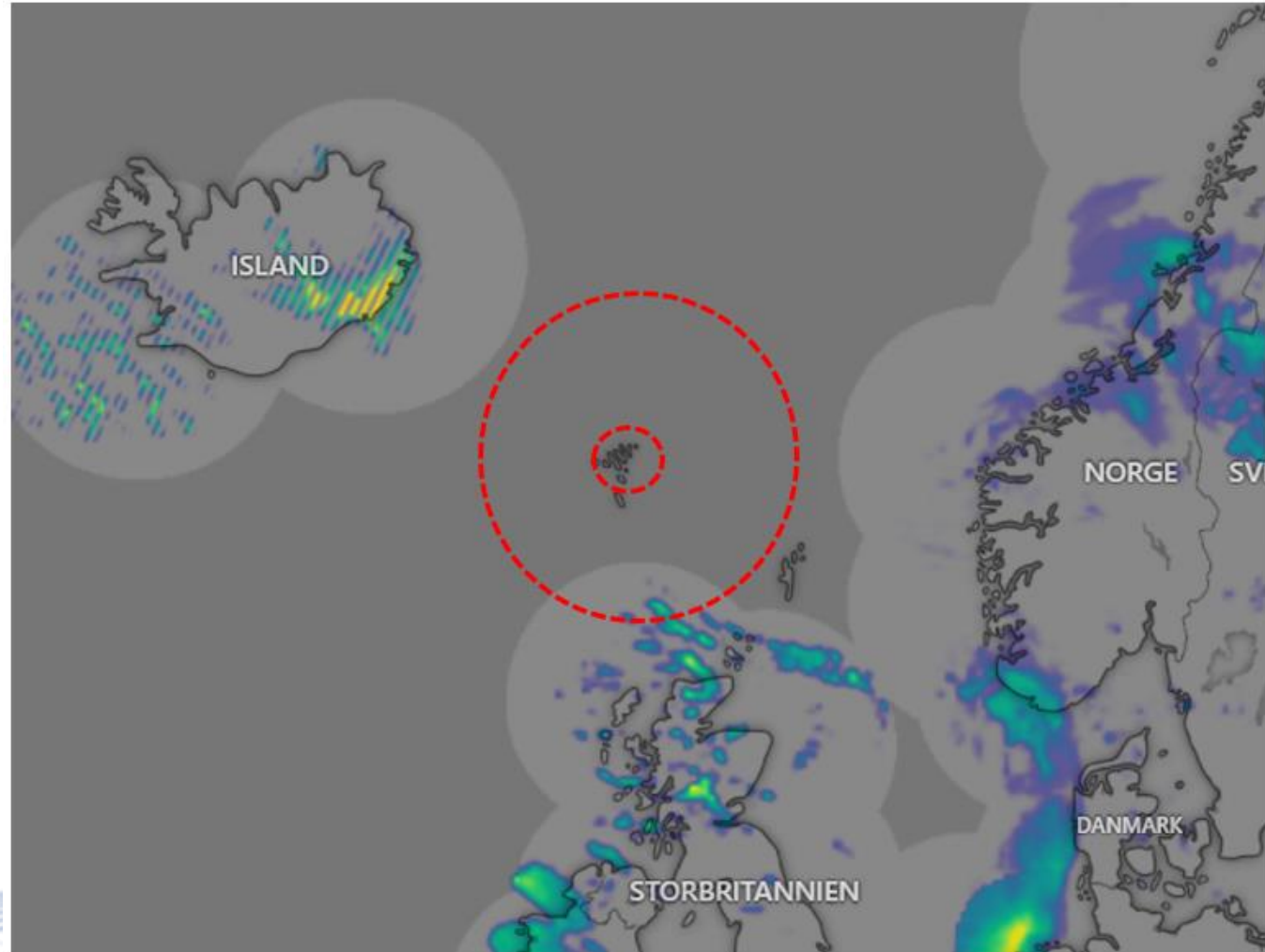
SØLA

STAÐ	DATO	TÍÐ	HÆDD	LONGD	TP	ÆTT	HITI	KNATTSTØÐA
Norðanfyrir	18/09	13:30	2.8 m	246 m	13 s	194 °	11 °C	62.5061 -6.7727
Eystanfyrir	18/09	13:16	2.1 m	276 m	13 s	163 °	11 °C	61.7716 -6.2173
Sunnanfyrir	18/09	13:30	3.0 m	246 m	13 s	194 °	11 °C	61.2976 -6.2745





Ynski: Veðurradari



Veðurstovan og framtíðin ...

