

Hitahvörf yfir Íslandi

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og
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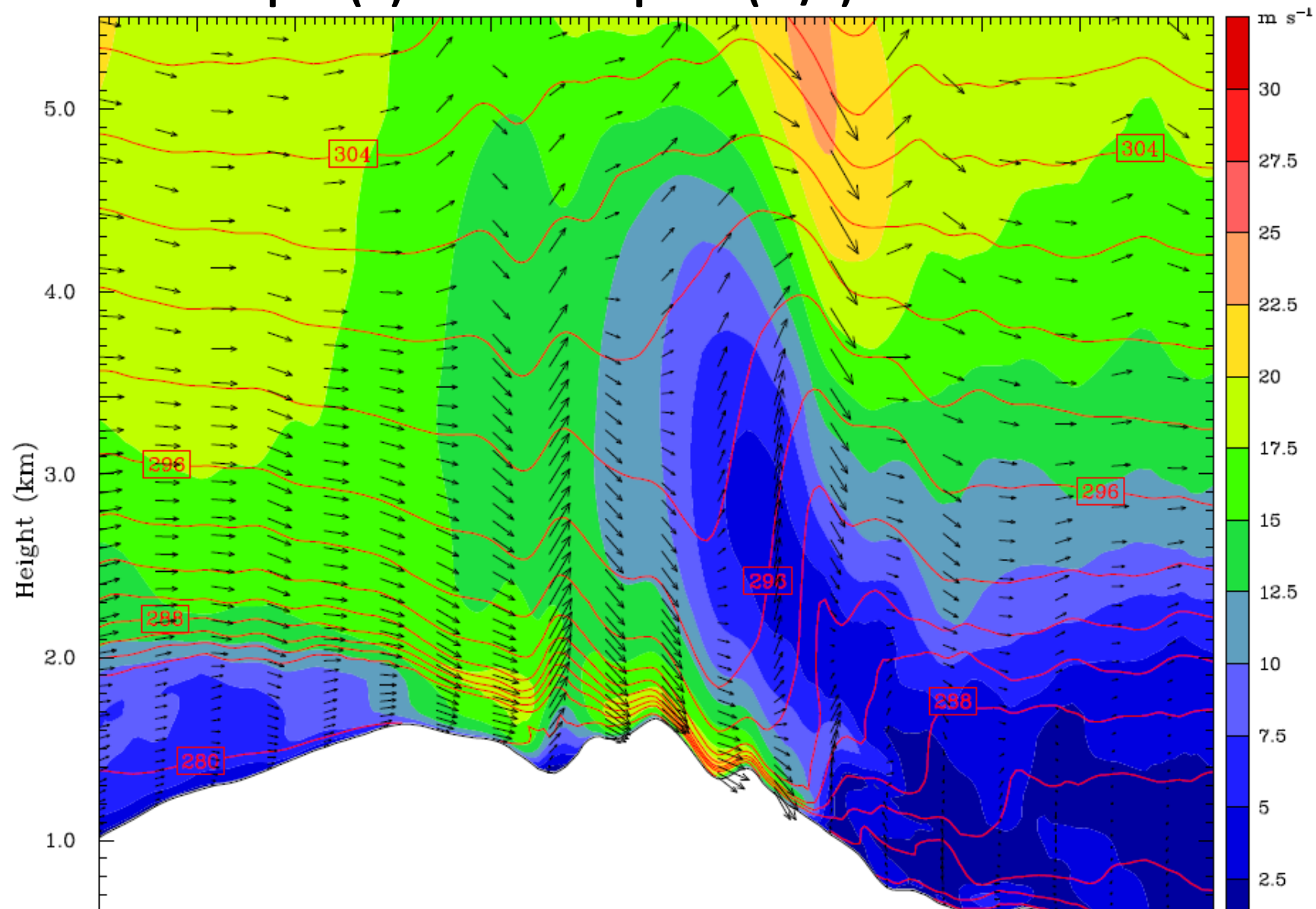




Hitahvörf skipta máli

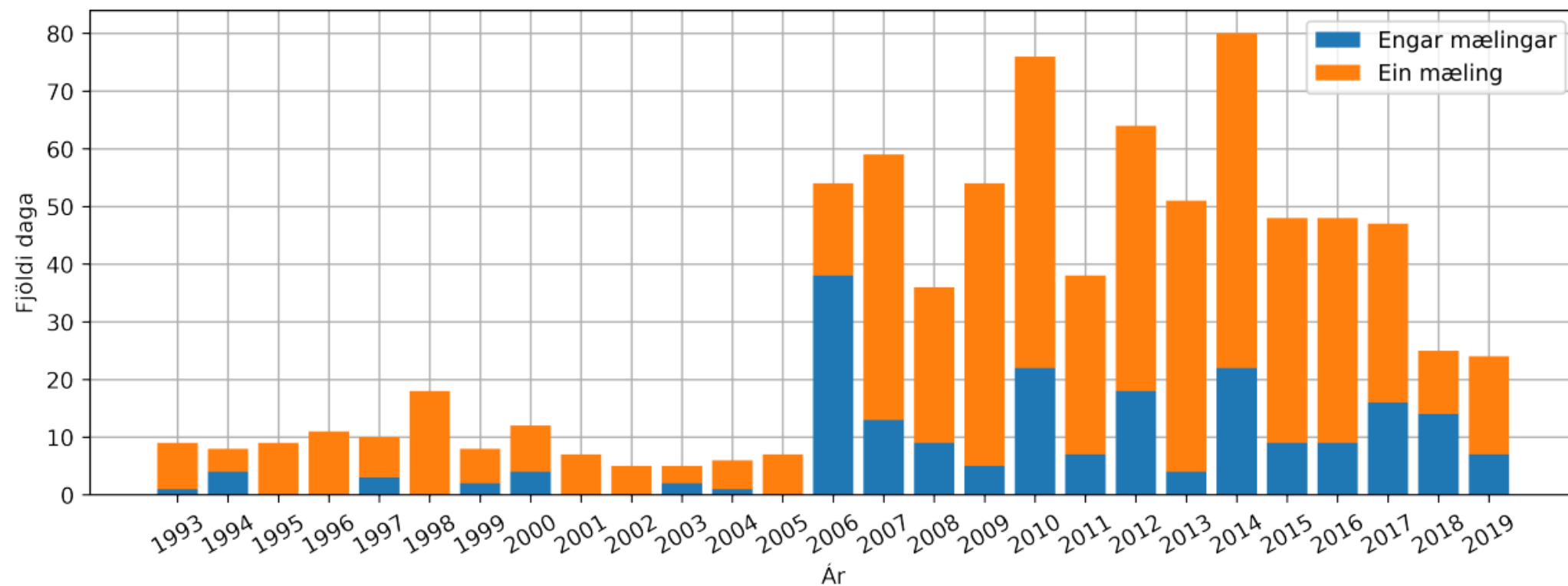
Photo: Olafur Sigurjonsson

Isentropes (K) and wind speed (m/s)

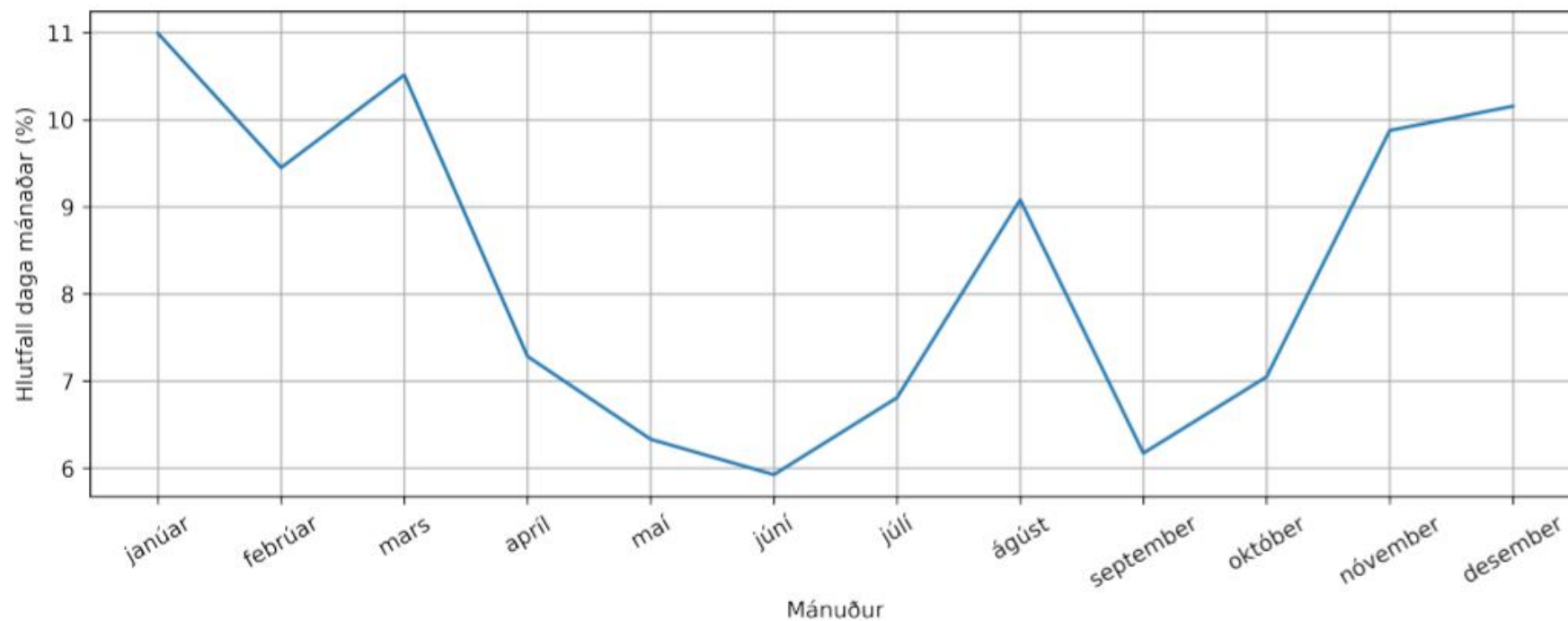


Háloftamælingar frá Keflavík 1993-2019





Fjöldi daga með einni eða engri mælingu yfir árið í Keflavík

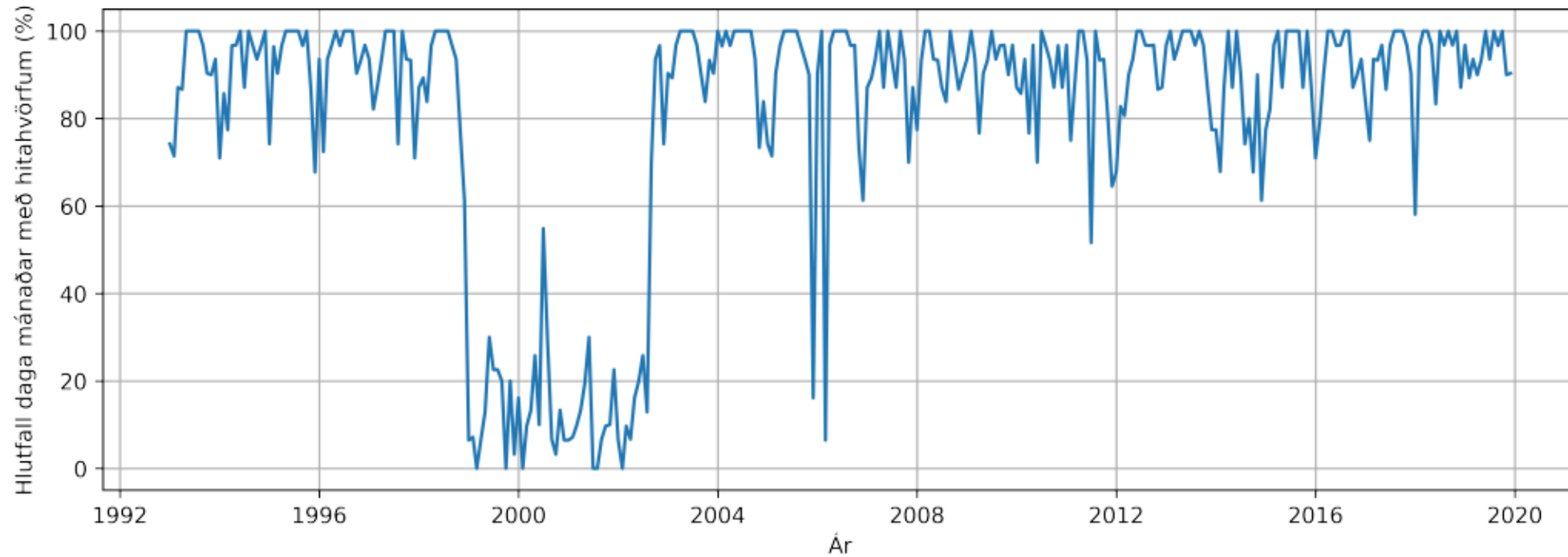


Hlutfall daga á mánuði að meðaltali með einungis einni eða engri mælingu í Keflavík frá 1993 til 2019

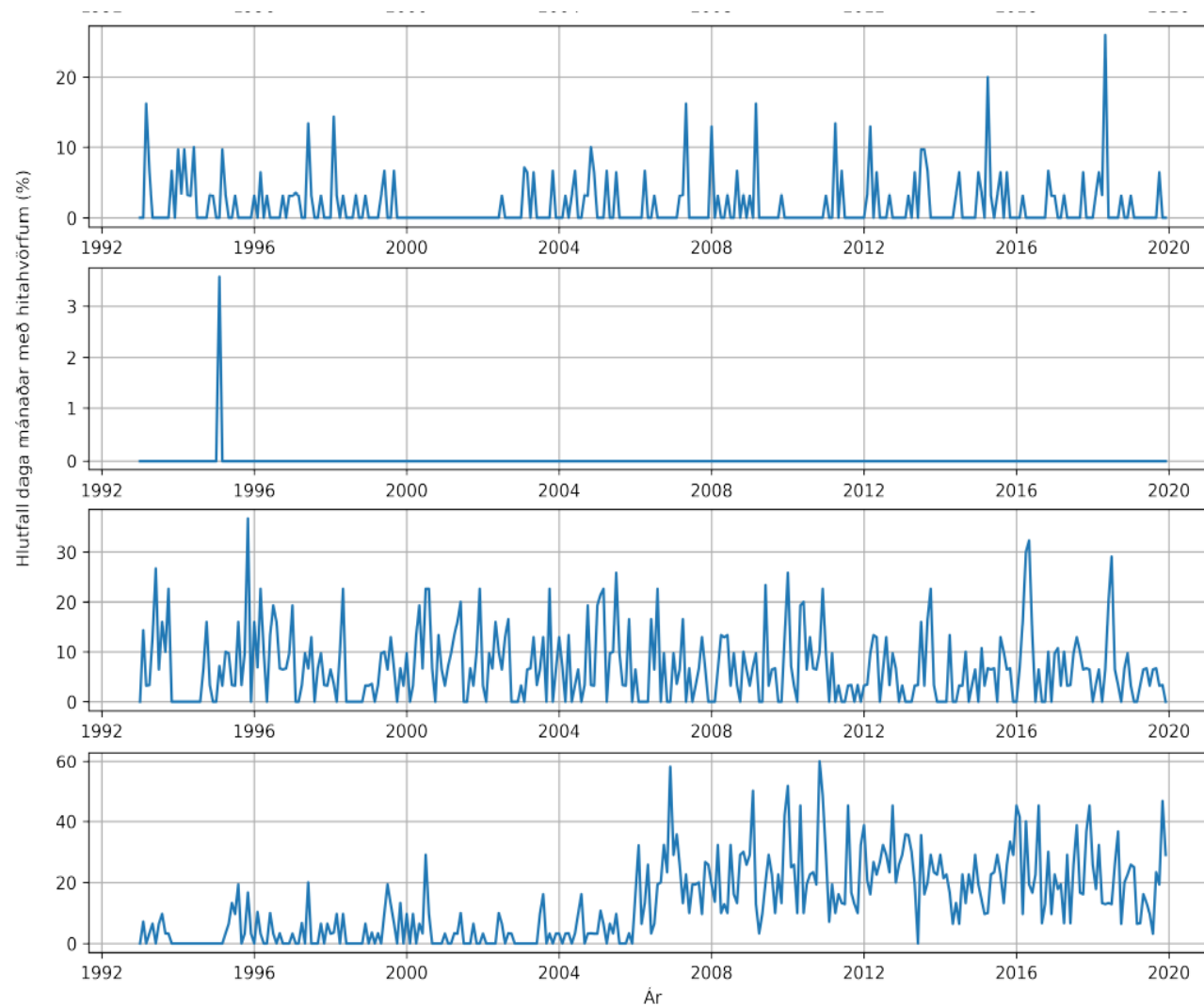
Fjöldi hitahvarfa í hverju loftþrýstingsbili fyrir hvern styrkleikahóp fyrir staðalþrýstifleti í Keflavík frá 1993 til 2019

Þrýstingsbil	$dT > 0,5^{\circ}C$	$dT/dp \leq 0,1$	≤ 0	$< -0,1$	$< -0,5$	< -1
100-300 hPa	22.165	54.276	26.430	4.255	0	0
300-500 hPa	213	8.122	270	0	0	0
500-780 hPa	1	18.725	1	0	0	0
780-930 hPa	847	38.299	1.248	2	0	0
930-1040 hPa	1.563	18.981	2.772	886	130	30

Hlutfall daga mánaðar með hitahvörfum efst í veðrahvolfi (%) 1993-2019



Hlutfall daga mánaðar með Hitahvörfum (%) 1993-2019

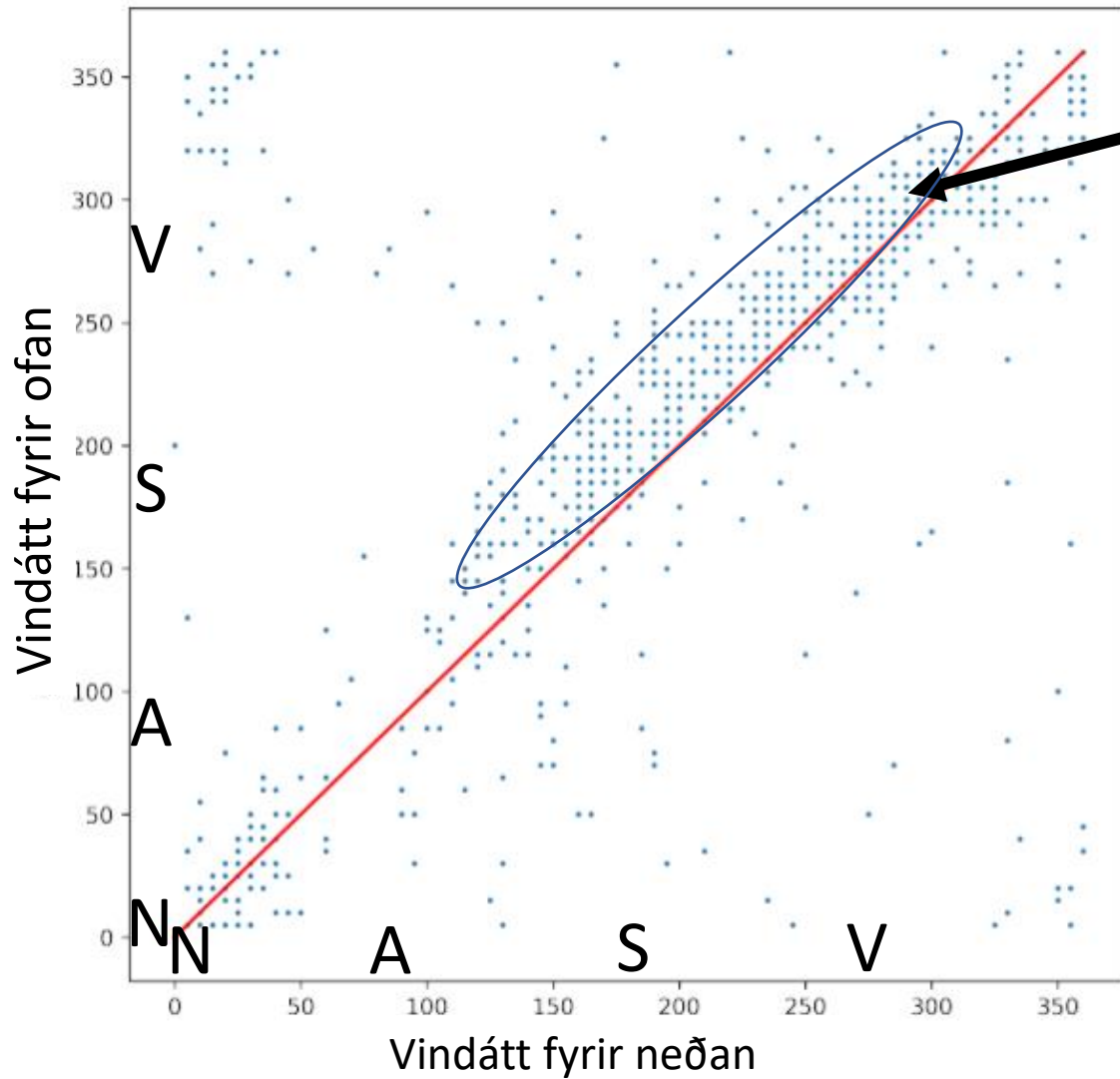


Efri hluti
veðrahvolfs

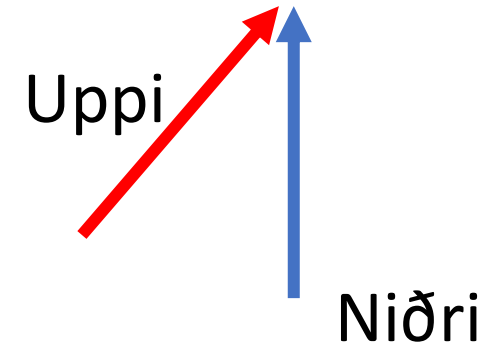
Miðbik veðrahvolfs

Fjallahæð

Við jörð



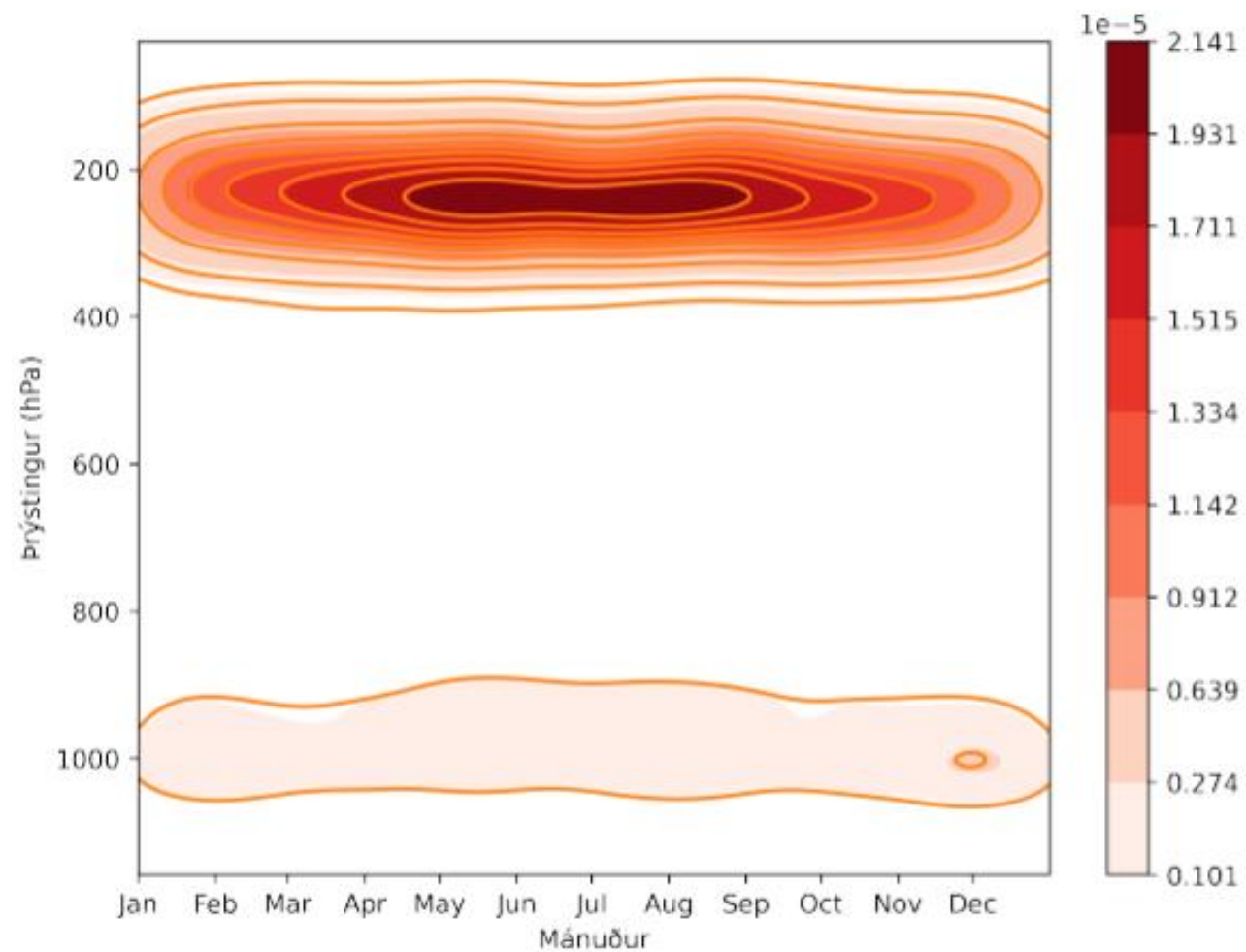
Hlýtt aðstreymi í riðnu lofti í suðlægu áttunum



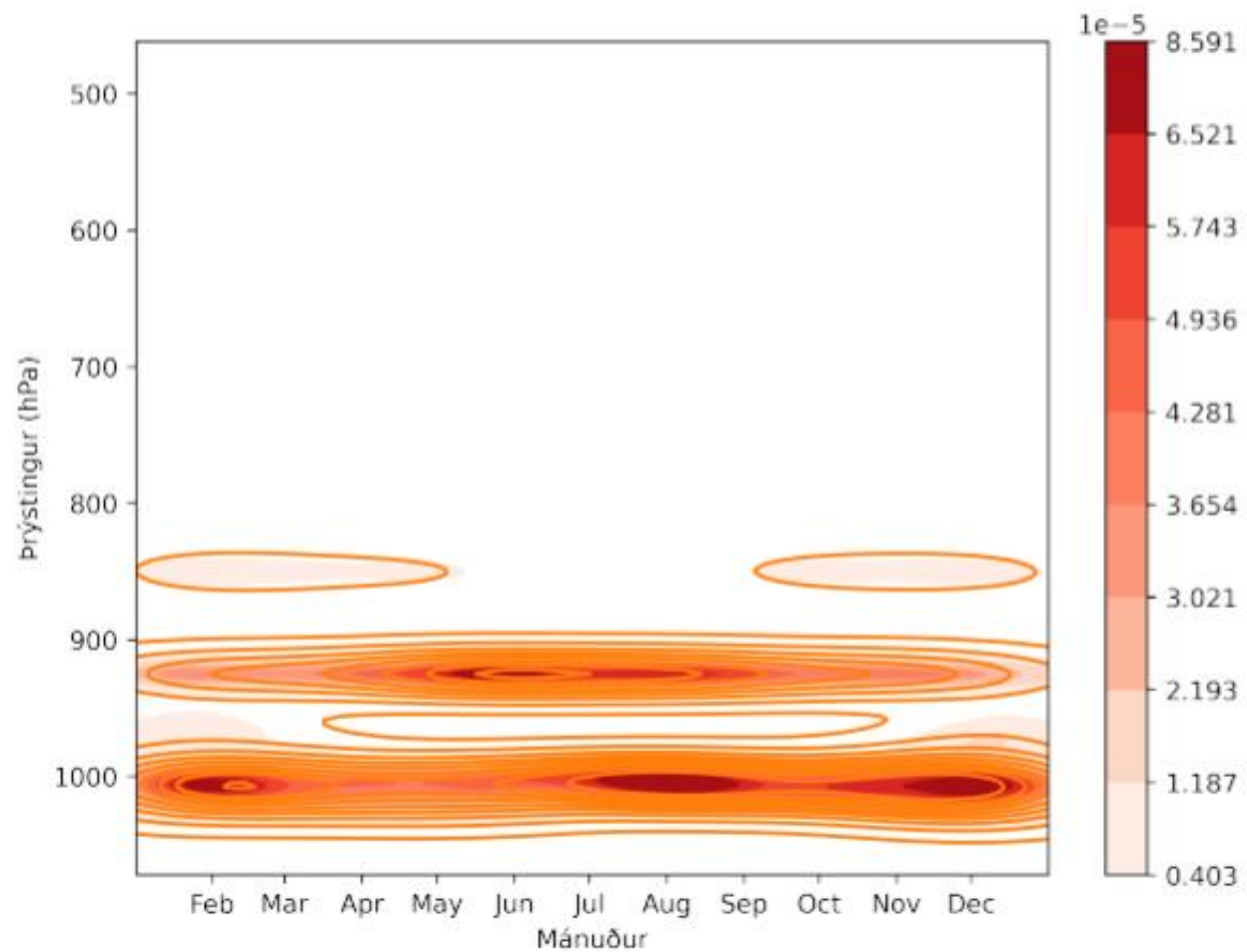
$$\mathbf{v}_T = \frac{R}{f} \ln \left[\frac{p_0}{p_1} \right] \mathbf{k} \times \nabla_p \bar{T}.$$

(c) Vindáttir við hitahvörf í 500-930 hPa (°)

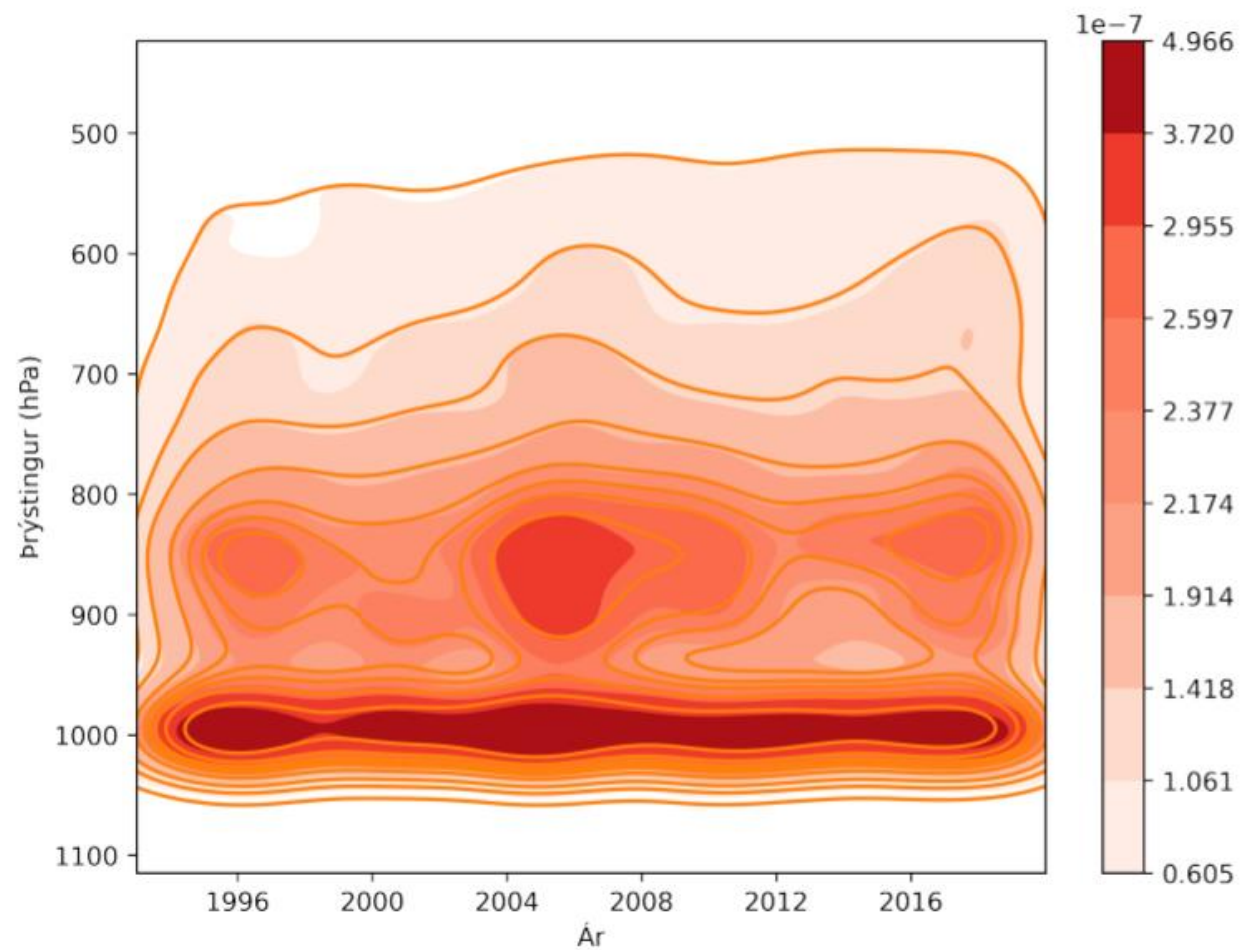
Alvöru hitahvörf yfir Keflavík



Klippum veðrahvörfin burt

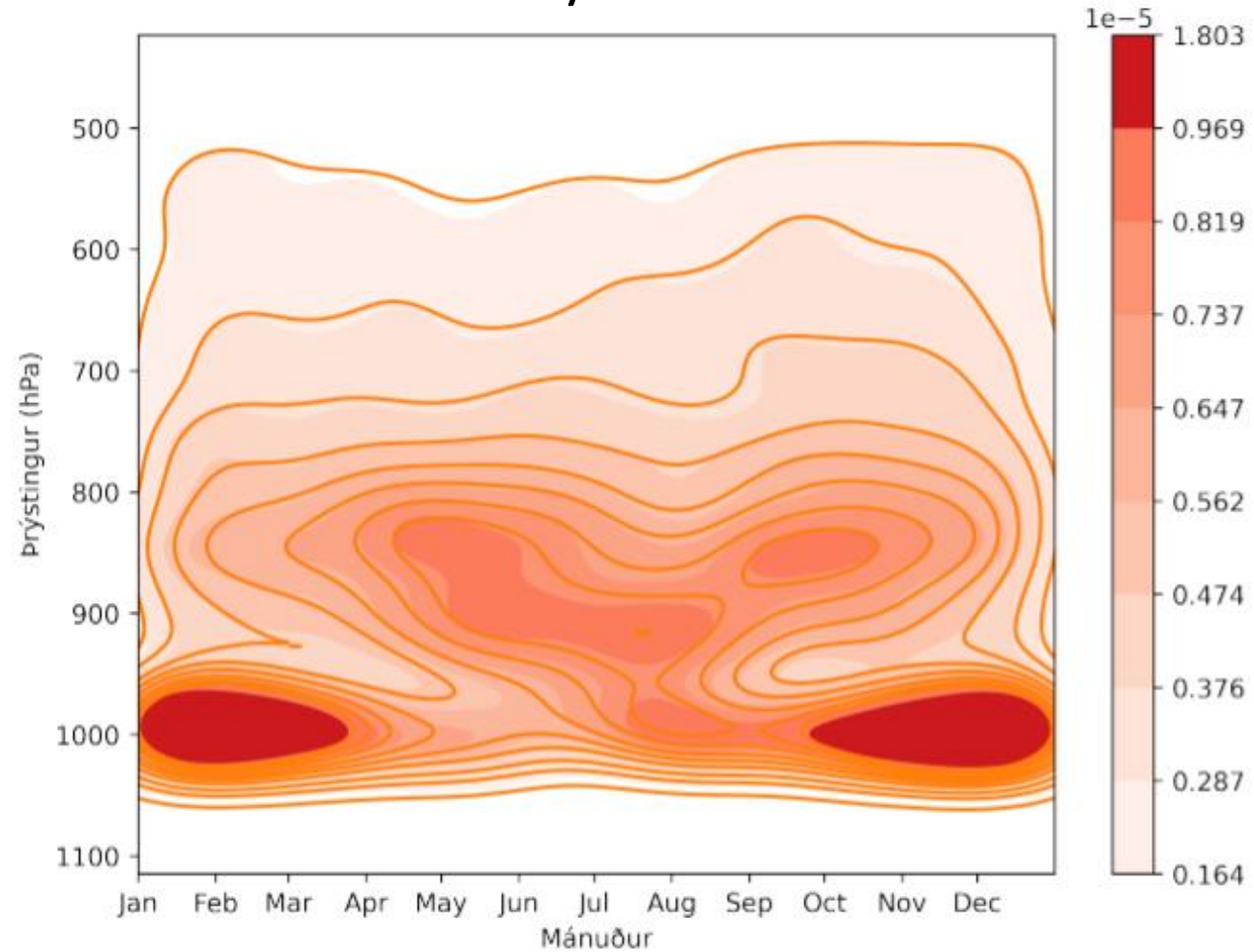


Tíðni hitahvarfa yfir Keflavík

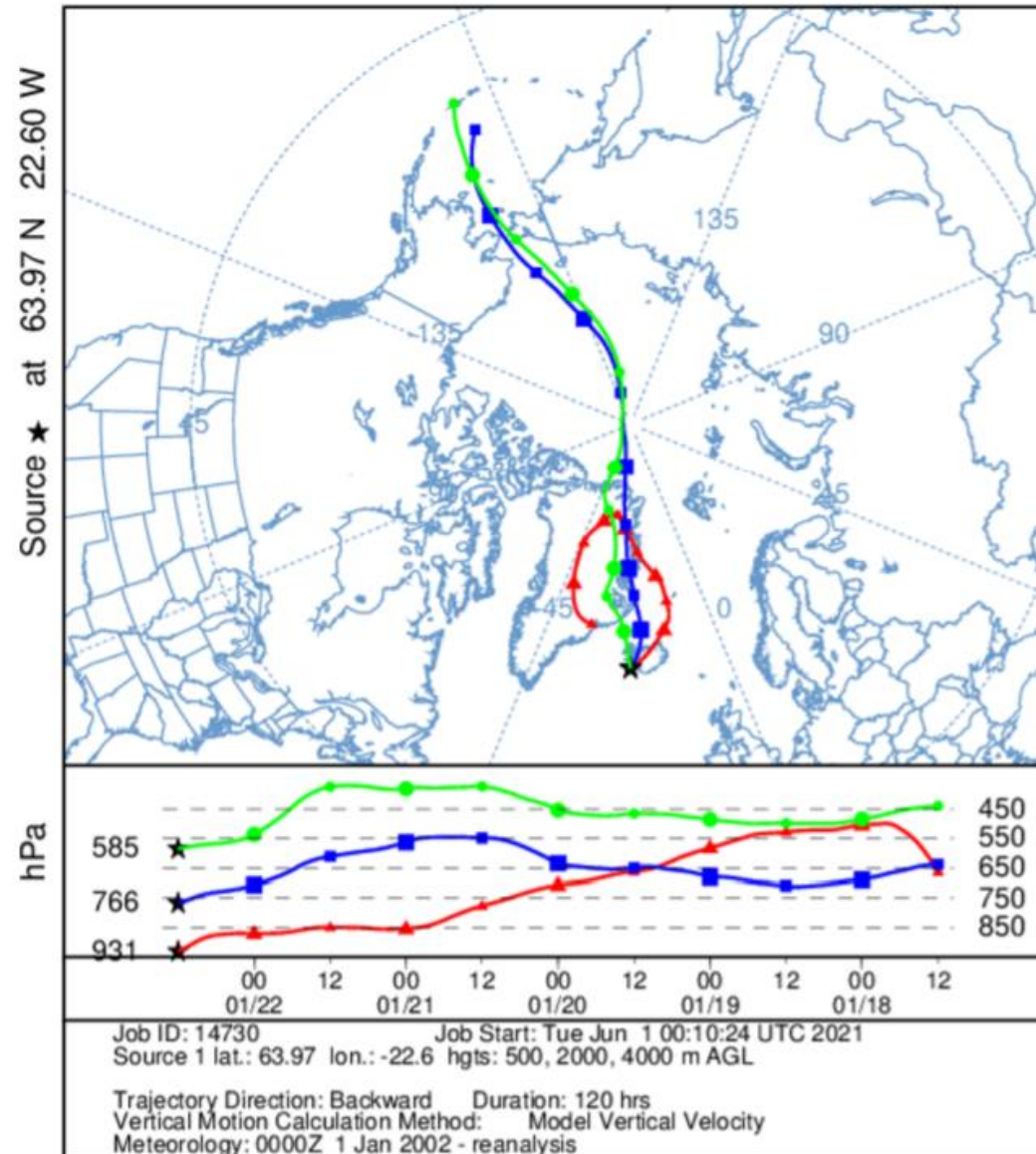


Áhugaverðasta glæran

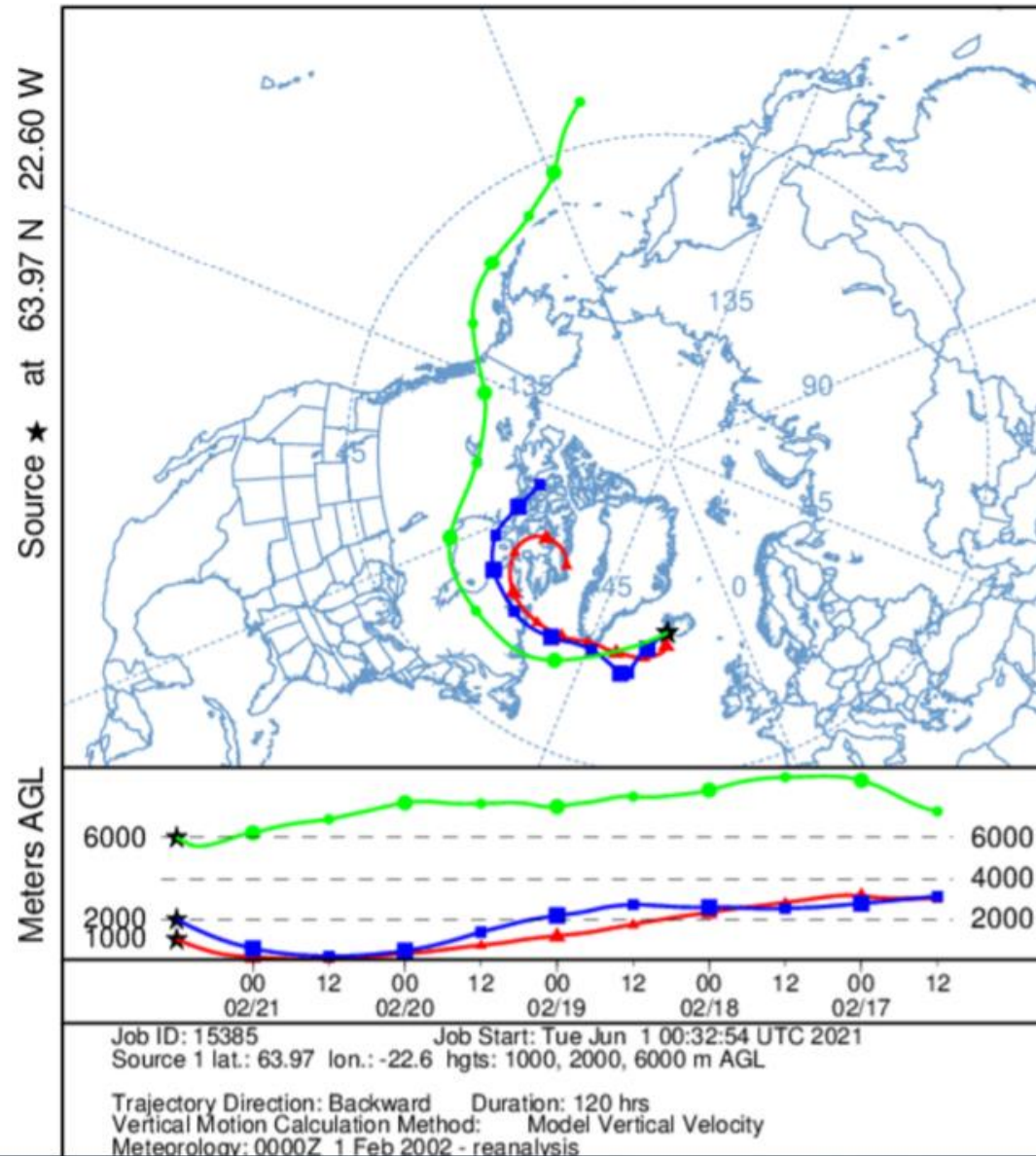
Tíðni hitahvarfa yfir Keflavík



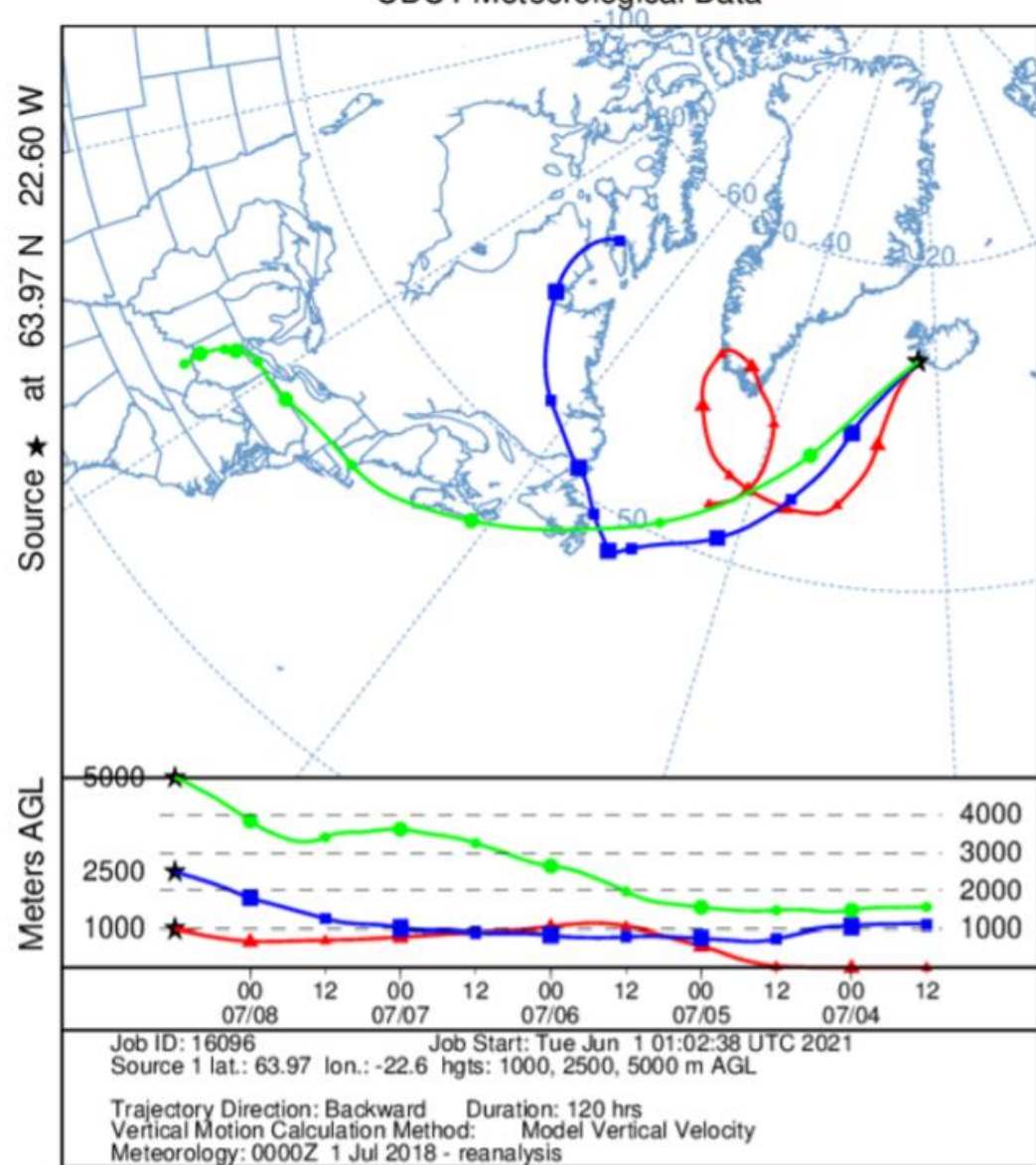
NOAA HYSPLIT MODEL
Backward trajectories ending at 1200 UTC 22 Jan 02
CDC1 Meteorological Data



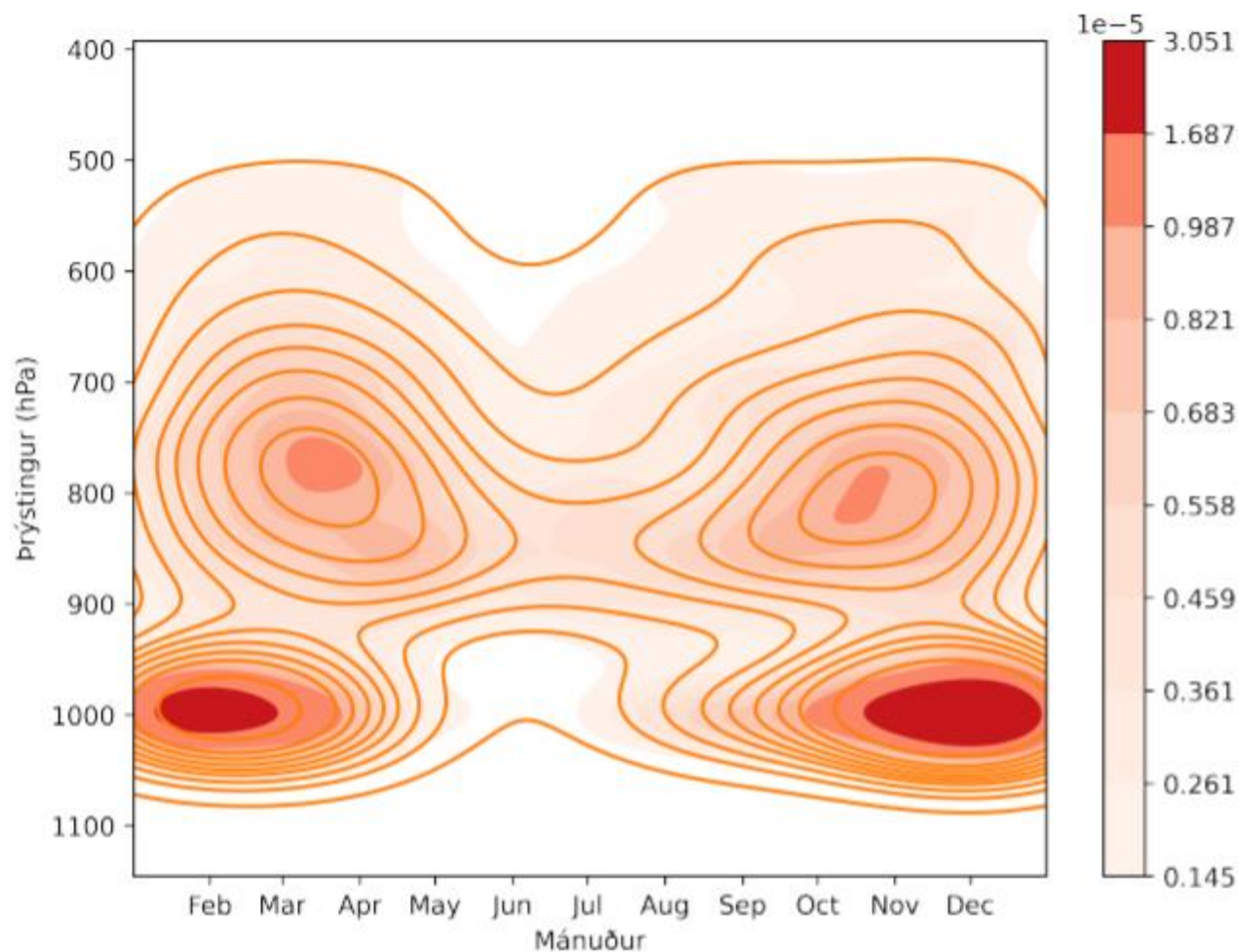
NOAA HYSPLIT MODEL
Backward trajectories ending at 1200 UTC 21 Feb 02
CDC1 Meteorological Data



NOAA HYSPLIT MODEL
Backward trajectories ending at 1200 UTC 08 Jul 18
CDC1 Meteorological Data



Tíðni hitahvarfa yfir Egilsstöðum með ýmsum fyrirvörum



Helstu atriði

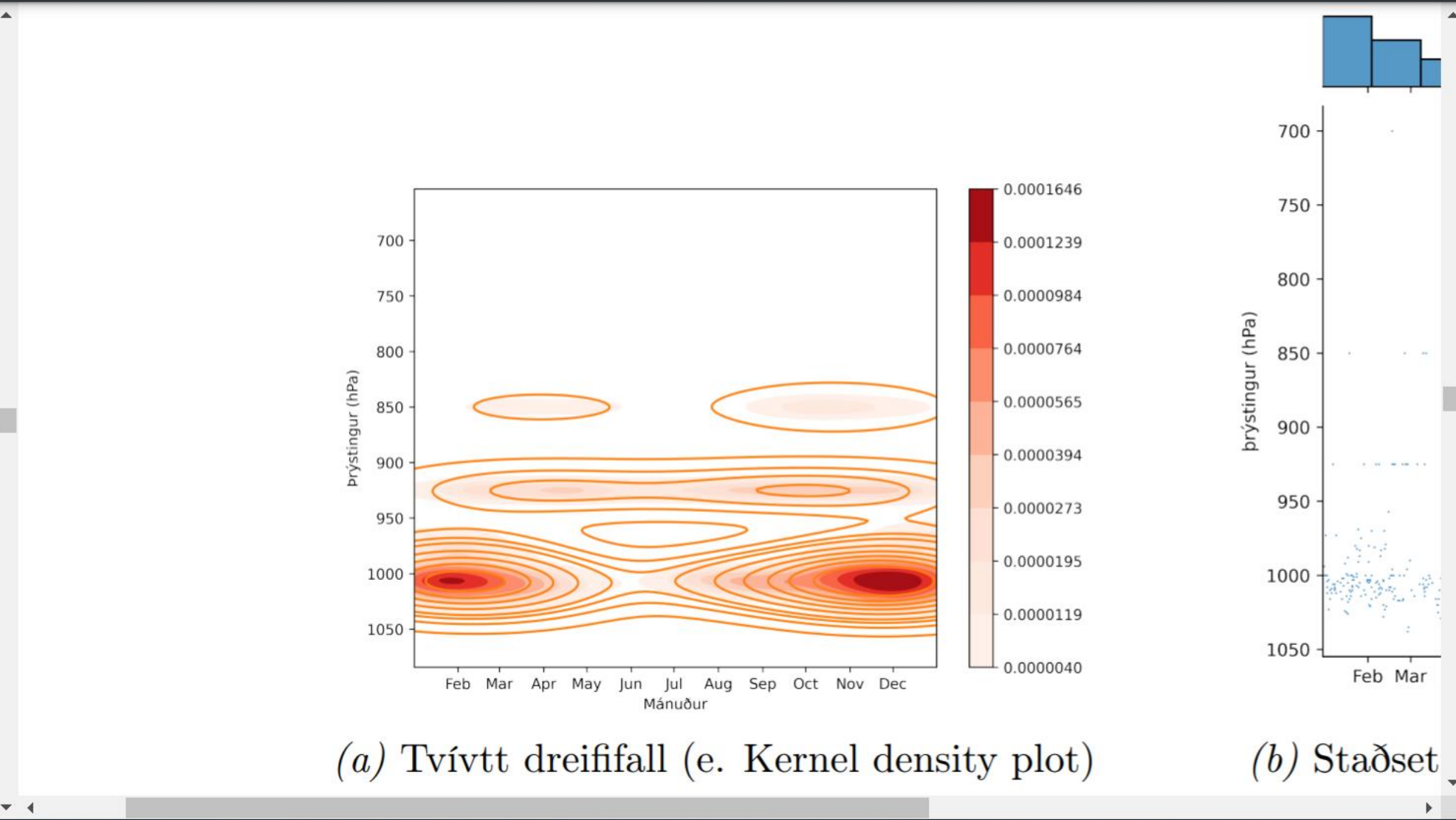
- Hitahvörf algeng í neðri hluta veðrahvolfs yfir SV-landi
 - Algengust frá vori og fram á haust
 - Lægst yfir hásumarið
 - Ólíkt aðstreymi ólíkra loftmassa
 - Algengust í suðlægum áttum í hlýnandi veðri
- Svigrúm til að bæta gögnin



Thumbnail 63: Text and a line graph.

Thumbnail 64: Two contour plots side-by-side.

Thumbnail 65: A line graph with multiple series.



(a) Tvívtt dreififall (e. Kernel density plot)

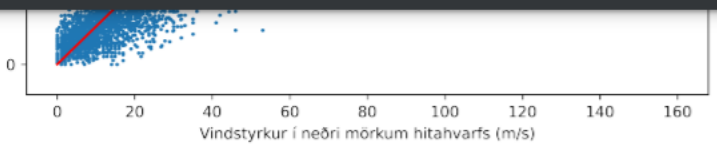
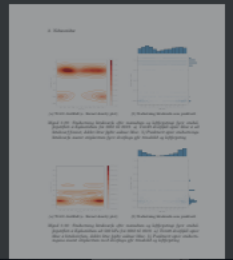
(b) Staðset



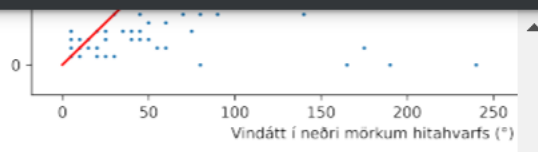
62



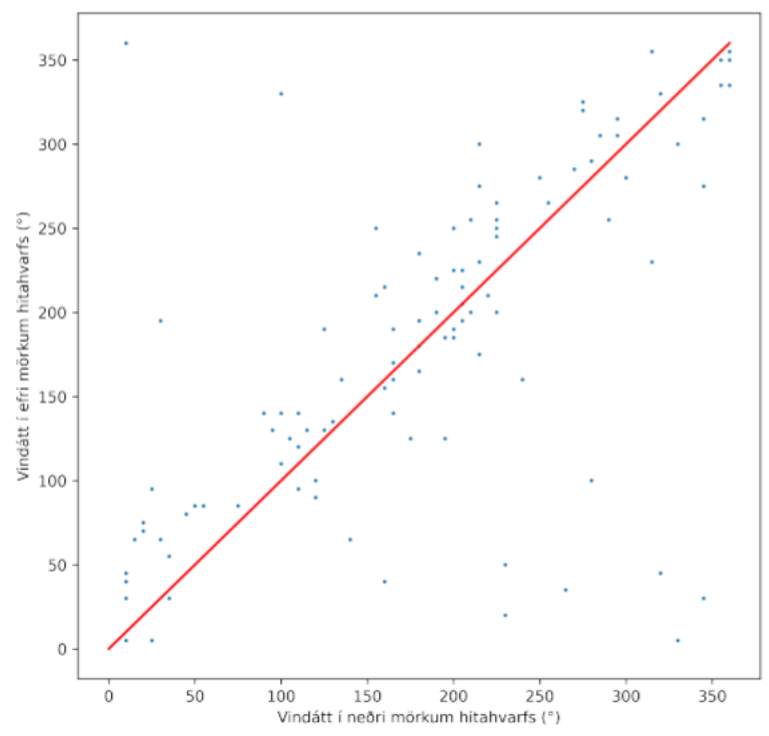
63



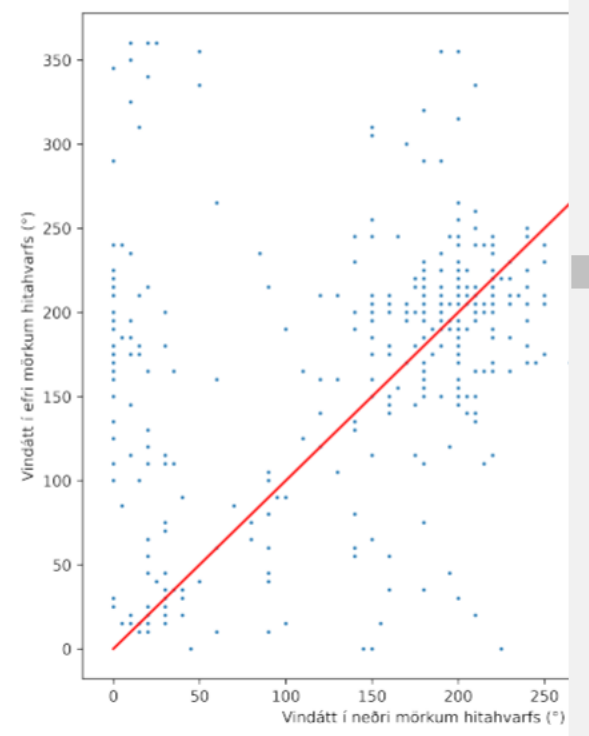
(a) Vindstyrkur (m/s)



(b) Vindáttir í 100-500 hPa



(c) Vindáttir í 500-930 hPa (°)



(d) Vindáttir í 930-1040 hPa