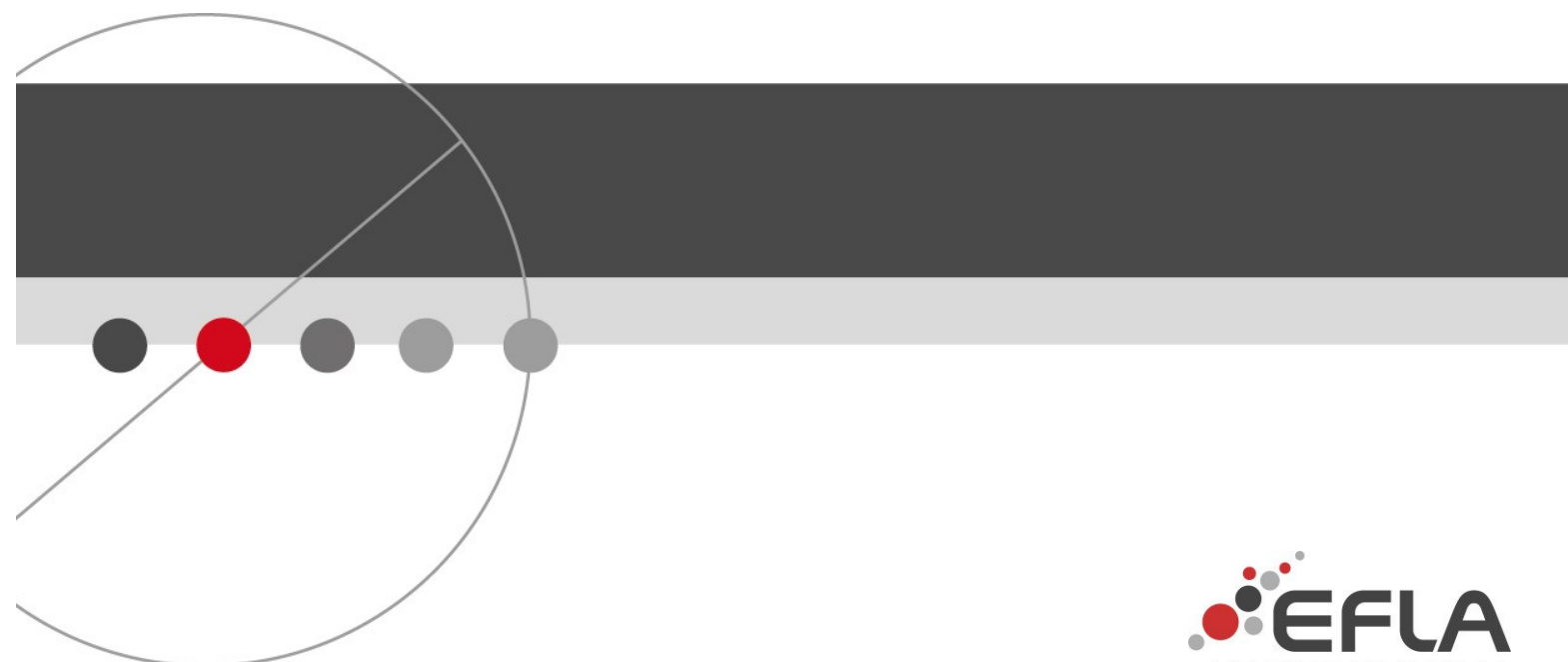


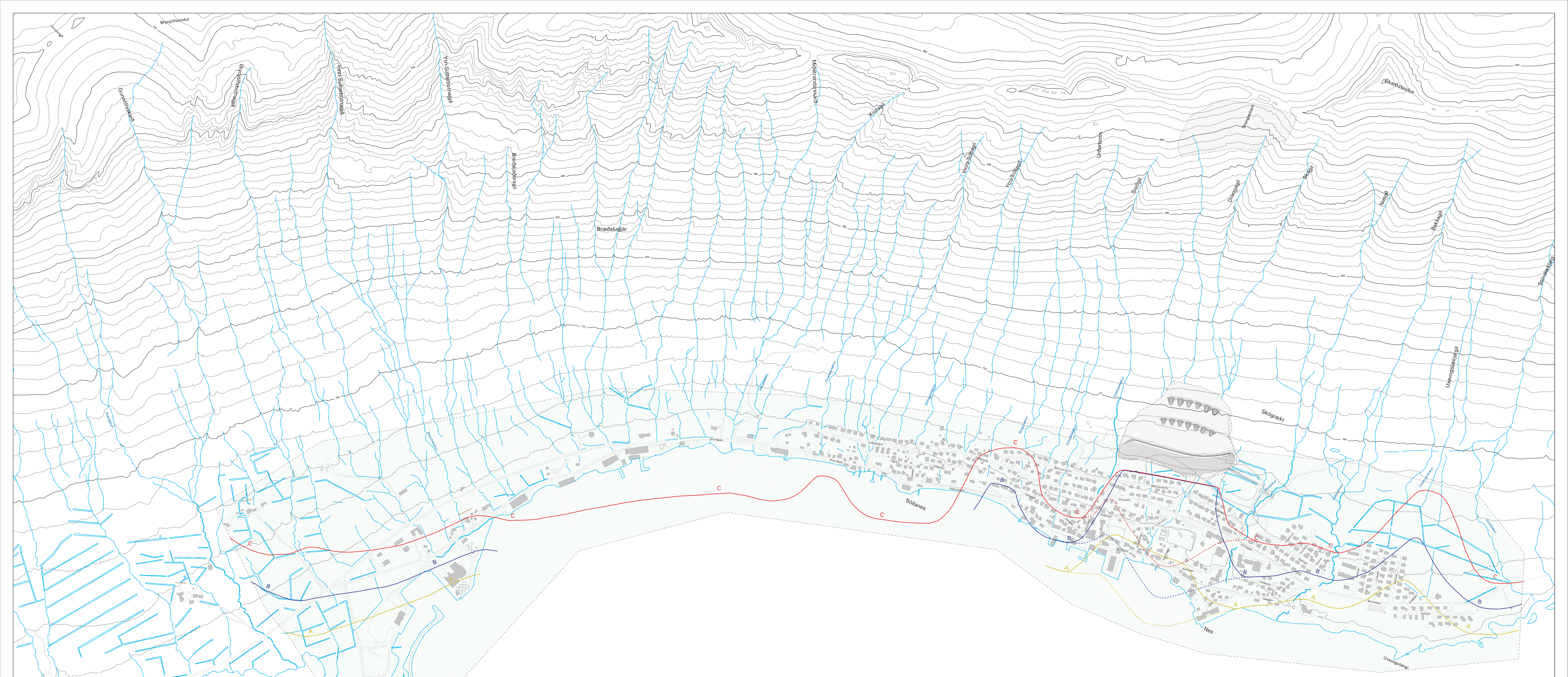
Ofanflóðavarnir á Norðfirði – Nesgil og Bakkagil

Viðauki 1 – teikningar og myndir

Júlí 2016

Matsskýrsla





Neskaupstaður

Hættumatskort Hættumat vegna ofanflóða

Unnið fyrir hættumatsnefnd Fjarðabyggðar

Kortinu fylgir greinargerð þar sem gerð er grein fyrir helstu forsendum, aðferðafræði og niðurstöðum hættumatsins:

Mát á hættu vegna ofanflóða í Neskaupstaði. Greinargerð með hættumatskort. Hættumatsnefnd Fjarðabyggðar, desember 2001.

Kortagerð: Veðurstofa Íslands
Kortid var unnið árið 2001
Viðmótun: ISN93
Kortgerðun: Hnit hf., Loftmyndir ehf.
Byggingar, gatnakerfi: Hnit hf. 1990



Veðurstofa Íslands

Staðarhættu eftir byggingu varnarmannvirka, sem þá eru fullfrágengin og þeim viðhaldið

- jafnháttulína, áhætta 3,0 af 10.000 á ári
- jafnháttulína, áhætta 1,0 af 10.000 á ári
- jafnháttulína, áhætta 0,3 af 10.000 á ári

Staðarhættu fyrir byggingu varnarmannvirka

- - - jafnháttulína, áhætta 3,0 af 10.000 á ári
- - - jafnháttulína, áhætta 1,0 af 10.000 á ári
- - - jafnháttulína, áhætta 0,3 af 10.000 á ári

C hættusvæði, áhætta meiri en 3,0 af 10.000 á ári
B hættusvæði, áhætta 1,0 - 3,0 af 10.000 á ári
A hættusvæði, áhætta 0,3 - 1,0 af 10.000 á ári

Svæði með mannvirkjum eða landslagi sem dregur úr áhættu og má ekki breyta af öryggisástæðum

Mörk hættumatsins svæðis

Gefin er upp staðarhættu fyrir hvert hættusvæði, sem er áhrættur einstaklings af vöðum ofanflóða af dvaldri er öllum stundum í óstyrktu einbýlishúsi, þ.a. húsi sem ekki hefur verið styrkt sérstaklega vegna illgrá frá hugsanlegu ofanflóði.

Hættumat vegna ofanflóða fyrir Neskaupstað Desember 2001

Hættumat þetta er unnið og lagt fram til staðfestingar umhverfisráðherra samkvæmt lögum um varnir gegn snjóflóðum og skriðföllum nr. 49/1997 og reglugerð um hættumat vegna ofanflóða, flokkun og nýtingu hættusvæða og gerð bráðabirgðahættumats nr. 505/2000.

Hættumatsnefnd Fjarðabyggðar

Guina Guð-Teinason *Leifur Guðmundsson*
Sveinbjörn Ólafsson *Guðmundur Helgi Sigfísson*

Hættumat þetta er staðfest af umhverfisráðherra samkvæmt 4. gr. laga um varnir gegn snjóflóðum og skriðföllum, nr. 49/1997 og 5. gr. reglugerðar um hættumat vegna ofanflóða, flokkun og nýtingu hættusvæða og gerð bráðabirgðahættumats, nr. 505/2000, 11. janúar 2002

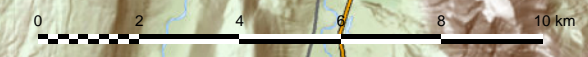
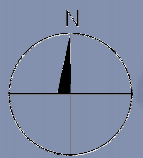
Siv Friðleifsdóttir *Magnús Jóhannsson*

Veðurstofa Íslands
október 2007

Rýmingarkort Neskaupstaðar, ytri hluti

Niðurstöður skilengdareikninga

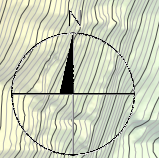
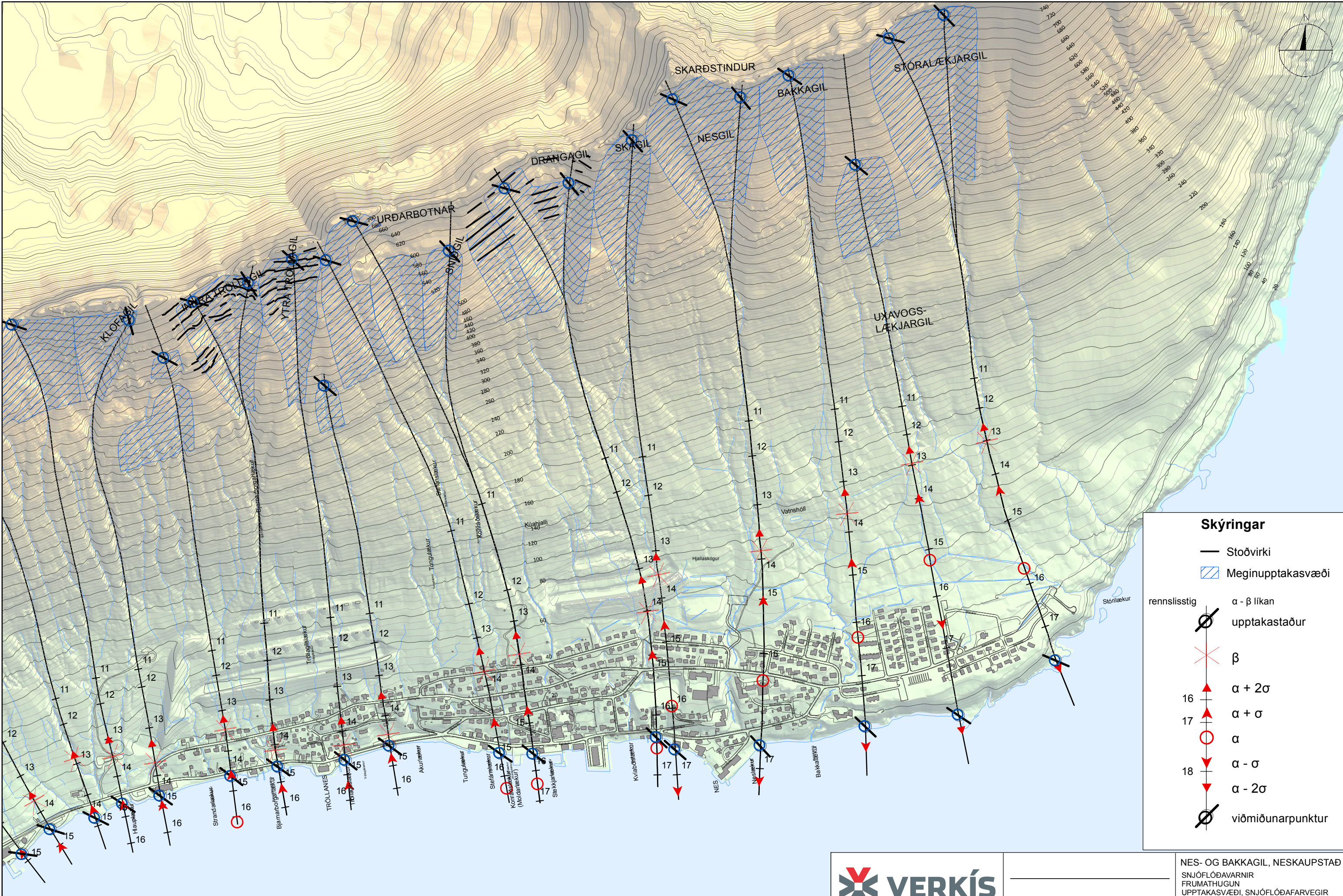
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2015-05-05 FRUMHÖNNUN AKT KMH
 ÚTG DAGS SKÝRINGAR TEIK HANN RÝNT SAMÞ

NES- OG BAKKAGIL, NESKAUPSTAÐ
 SNJÓFLÓÐAVARNIR
 FRUMATHUGUN
 YFIRLITSMYND
 VERKFANG 07116 TEIKNING U60.02.001 -

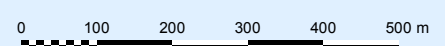


Skýringar

- Stoðvirki
- ▨ Meginupptakasvæði

rennissstig

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- ⊗ β
- ▲ α + 2σ
- ▲ α + σ
- α
- ▼ α - σ
- ▼ α - 2σ
- ⊗ viðmiðunarpunktur



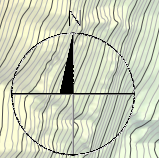
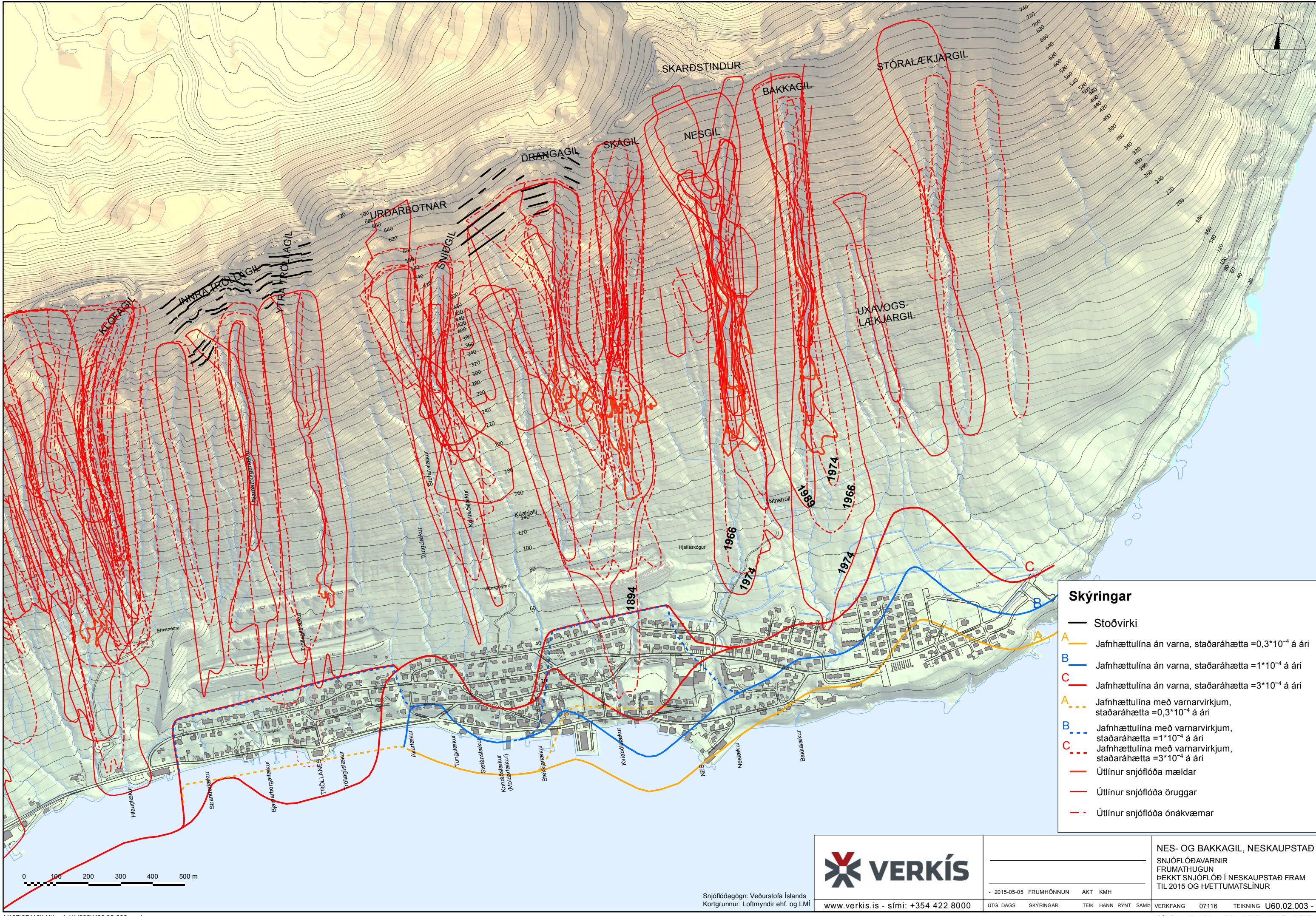
Snjóflóðagögn: Veðurstofa Íslands
Kortgrunnur: Loftmyndir ehf. og LMÍ

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2015-05-05 FRUMHÖNNUN AKT KMH
ÚTG DAGS SKÝRINGAR TEIK HANN RÝNT SAMP

NES- OG BAKKAGIL, NESKAUPSTAÐ
SNJÓFLÓÐAVARNIR
FRUMATHUGUN
UPPTAKASVÆÐI, SNJÓFLÓÐAFARVEGIR
OG EINVÍÐ LÍKÖN

VERKFANG 07116 TEIKNING U60.02.002 -



Skýringar

- Stoðvirki
- A — Jafnhættulína án varna, staðaráhætta = $0,3 \cdot 10^{-4}$ á ári
- B — Jafnhættulína án varna, staðaráhætta = $1 \cdot 10^{-4}$ á ári
- C — Jafnhættulína án varna, staðaráhætta = $3 \cdot 10^{-4}$ á ári
- A — Jafnhættulína með varnarvirkjum, staðaráhætta = $0,3 \cdot 10^{-4}$ á ári
- B — Jafnhættulína með varnarvirkjum, staðaráhætta = $1 \cdot 10^{-4}$ á ári
- C — Jafnhættulína með varnarvirkjum, staðaráhætta = $3 \cdot 10^{-4}$ á ári
- Útlínur snjóflóða mældar
- Útlínur snjóflóða öruggar
- - - Útlínur snjóflóða ónákvæmar



Snjóflóðagögn: Veðurstofa Íslands
Kortgrunnur: Loftmyndir ehf. og LMI

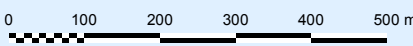
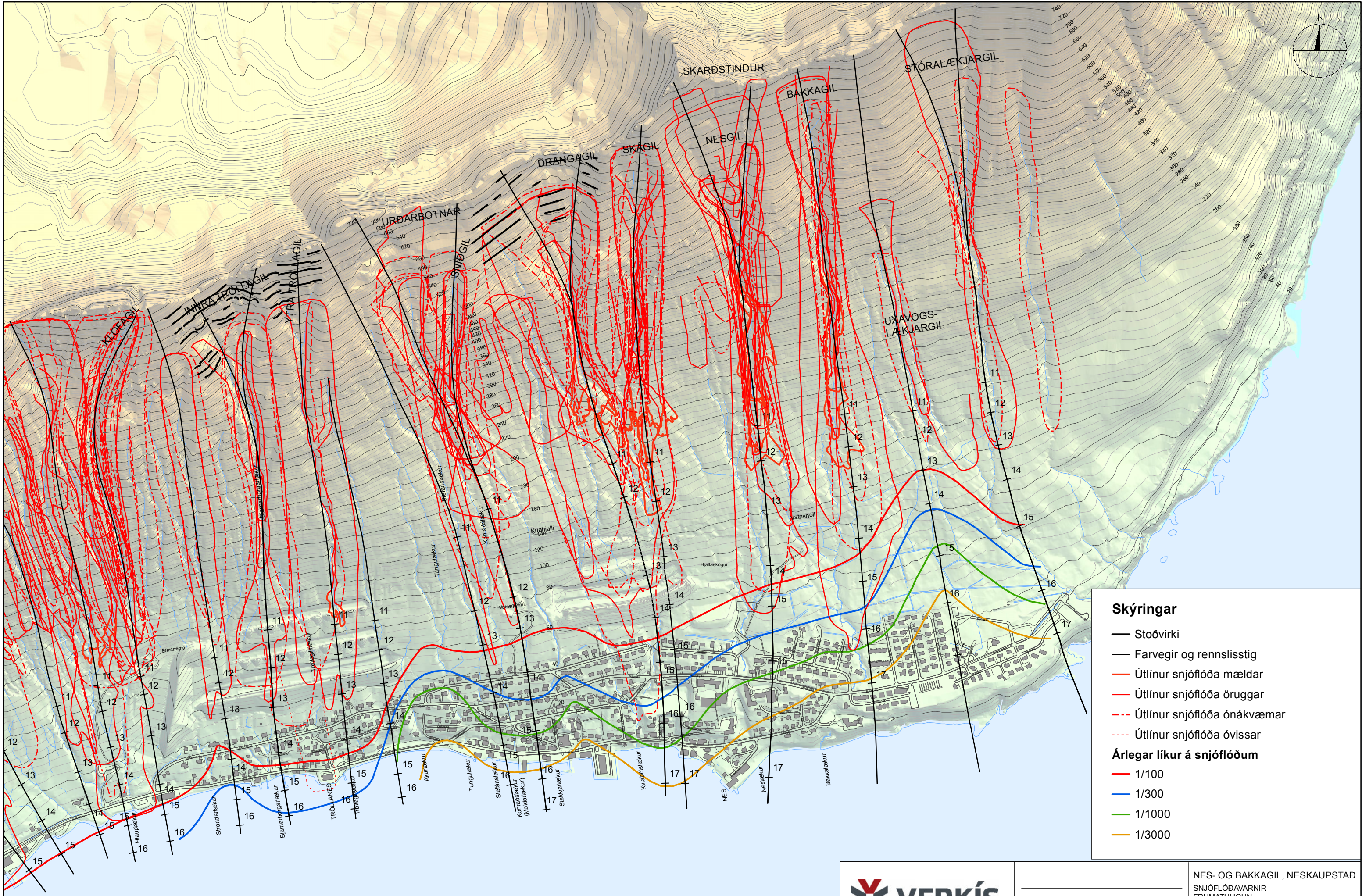
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- 2015-05-05 FRUMHÖNNUN AKT KMH

ÚTG DAGS SKÝRINGAR TEIK HANN RÝNT SAMÞ

NES- OG BAKKAGIL, NESKAUPSTAÐ
SNJÓFLÓÐAVARNIR
FRUMATHUGUN
ÞEKKT SNJÓFLÓÐ Í NESKAUPSTAÐ FRAM
TIL 2015 OG HÆTTUMATSLÍNUR

VERKFANG 07116 TEIKNING U60.02.003 -

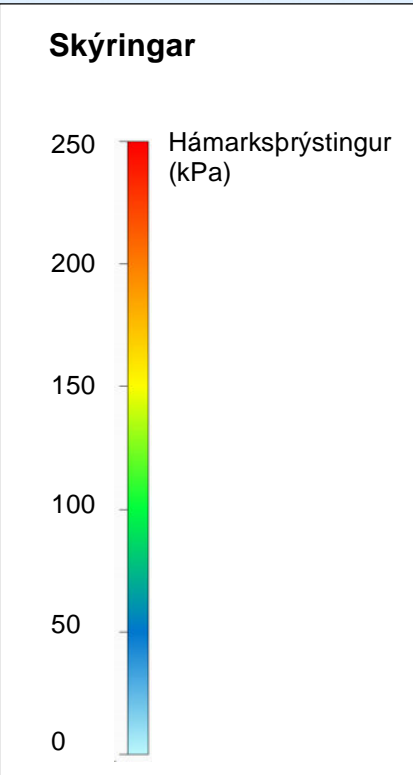
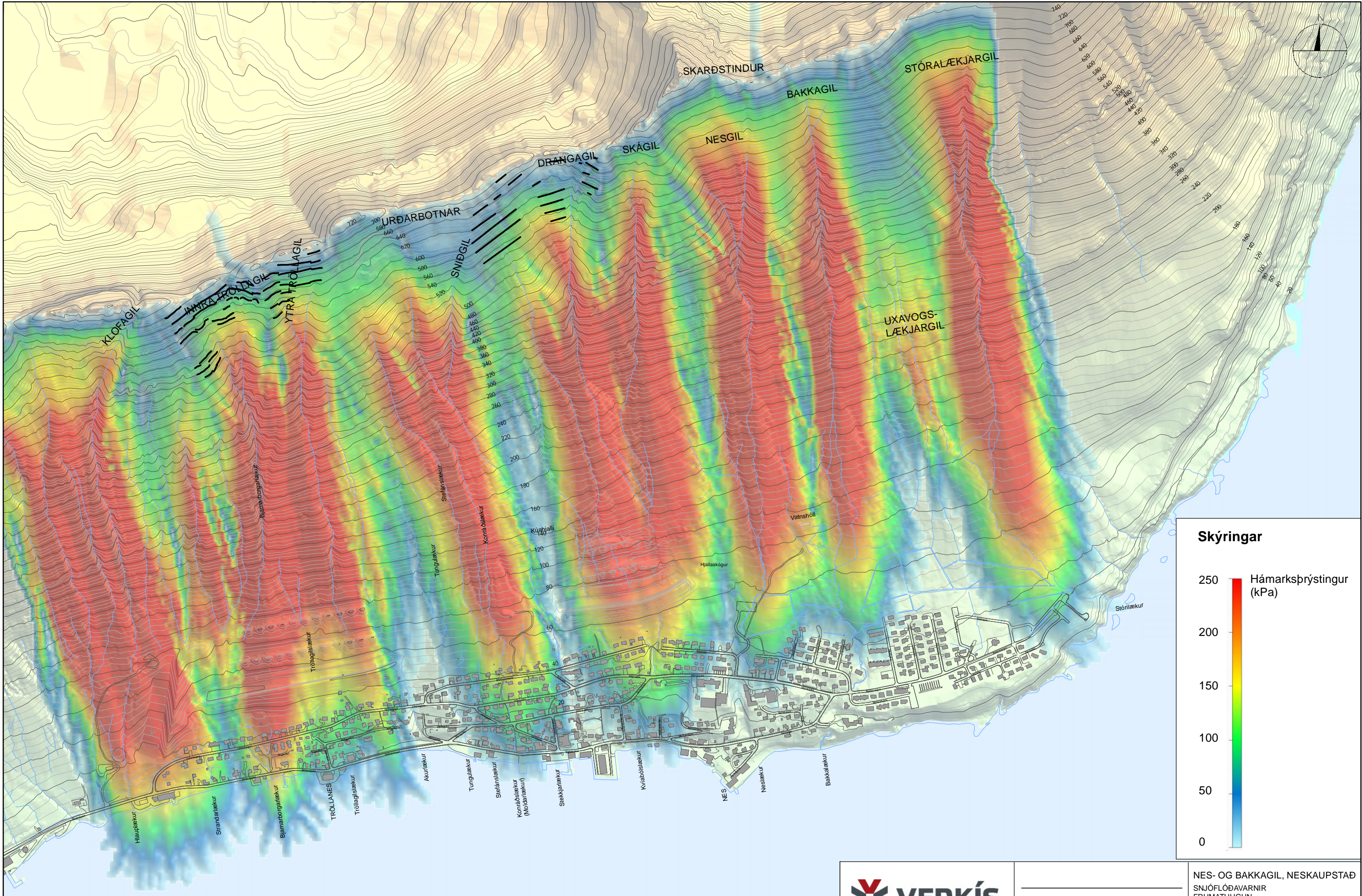


Skýringar

- Stoðvirki
- Farvegir og rennslistig
- Útlínur snjóflóða mældar
- Útlínur snjóflóða öruggar
- - - Útlínur snjóflóða ónákvæmar
- · - · Útlínur snjóflóða óvissar

Árlegar líkur á snjóflóðum

- 1/100
- 1/300
- 1/1000
- 1/3000



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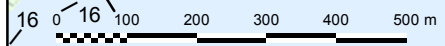
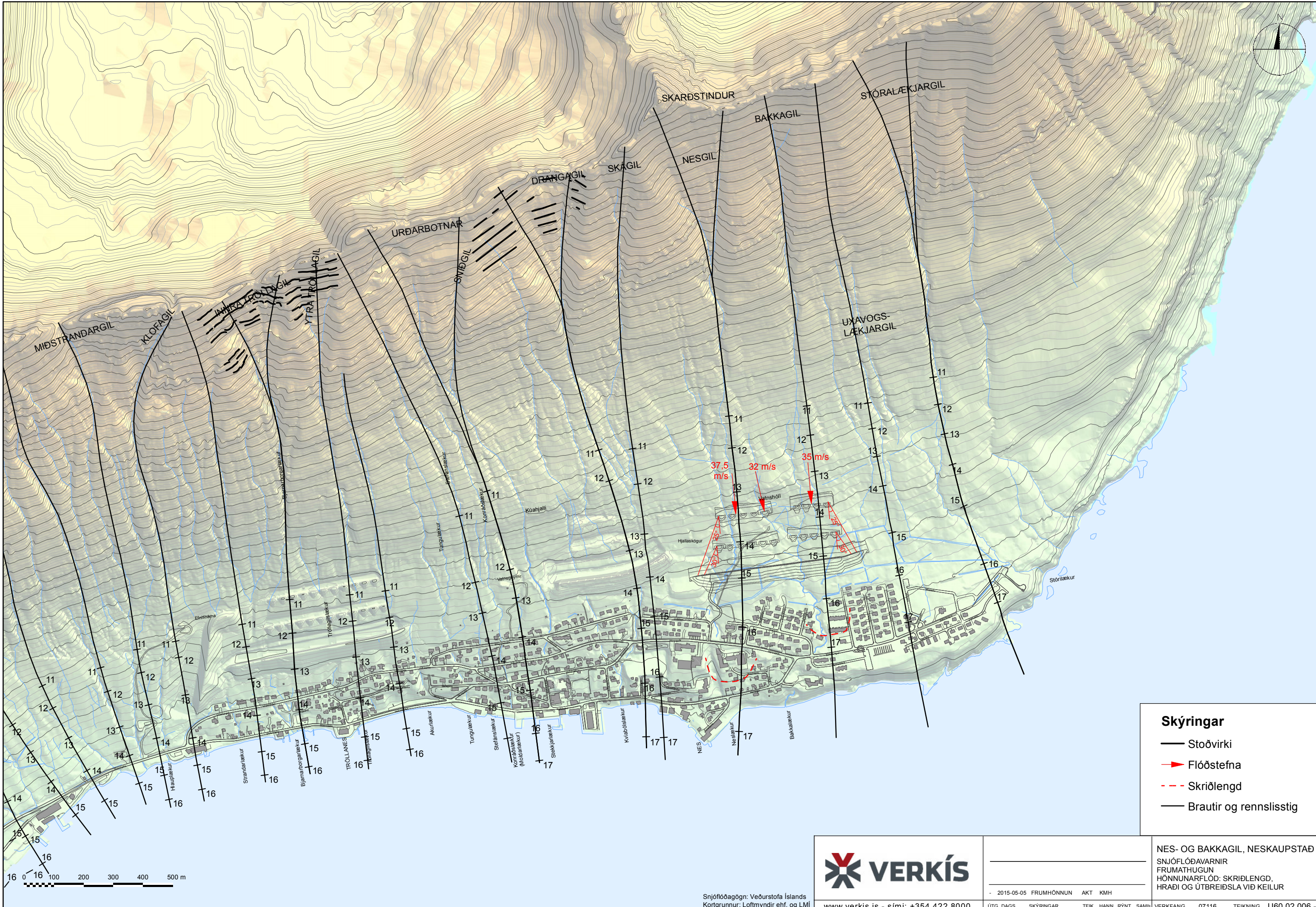
Snjóflóðagögn: Veðurstofa Íslands
Kortgrunnur: Loftmyndir ehf. og LMÍ

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2015-05-05 FRUMHÖNNUN AKT KMH
ÚTG DAGS SKÝRINGAR TEIK HANN RÝNT SAMP

NES- OG BAKKAGIL, NESKAUPSTAÐ
SNJÓFLÓÐAVARNIR
FRUMATHUGUN
TÍVÍÐIR LÍKNAREIKNINGAR,
SAMOS KEYSLSA NR. 1

VERK FANG 07116 TEIKNING U60.02.005 -



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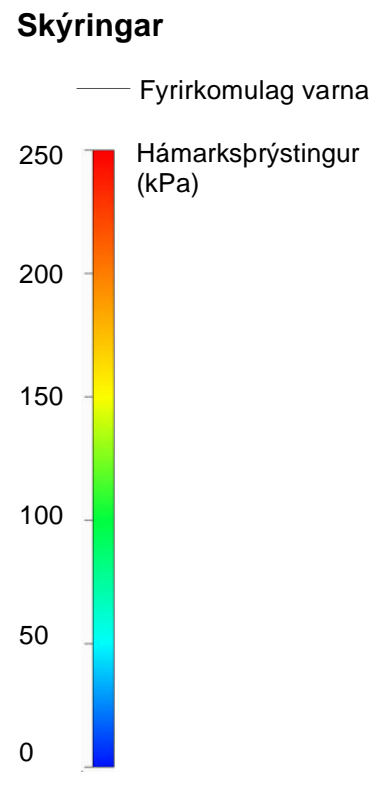
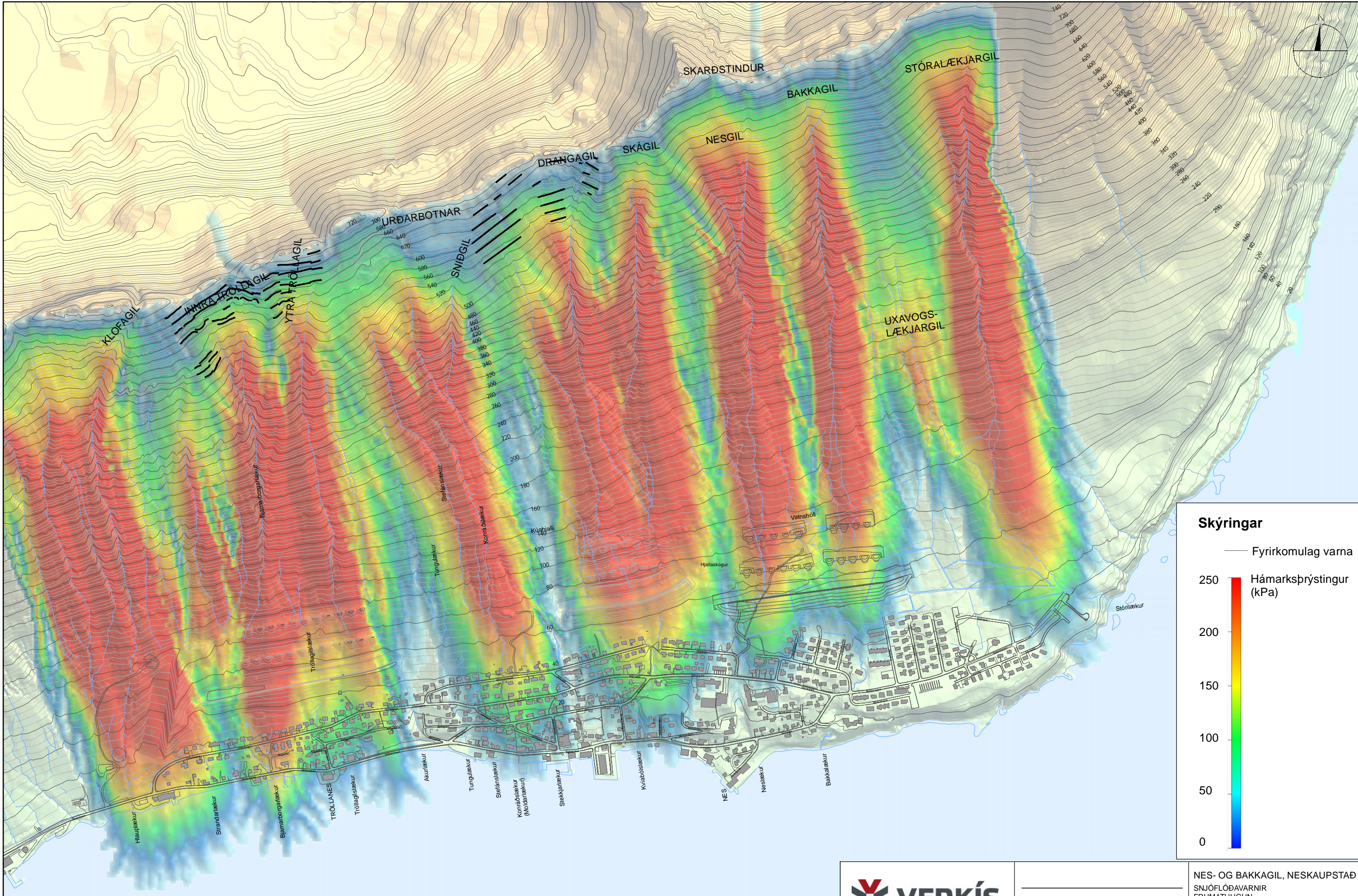
- Stoðvirki
- ➔ Flóðstefna
- - - Skriðlengd
- Brautir og rennslistig



Snjóflóðagögn: Veðurstofa Íslands
Kortgrunnur: Loftmyndir ehf. og LMÍ

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FRUMATHUGUN	
HÖNNUNARFLÓÐ: SKRIÐLENGD, HRÁÐI OG ÚTBREIÐSLA VIÐ KEILUR	
ÚTG DAGS	SKÝRINGAR
TEIK	HANN RÝNT SAMP
VERK FANG	07116
TEIKNING	U60.02.006



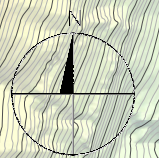
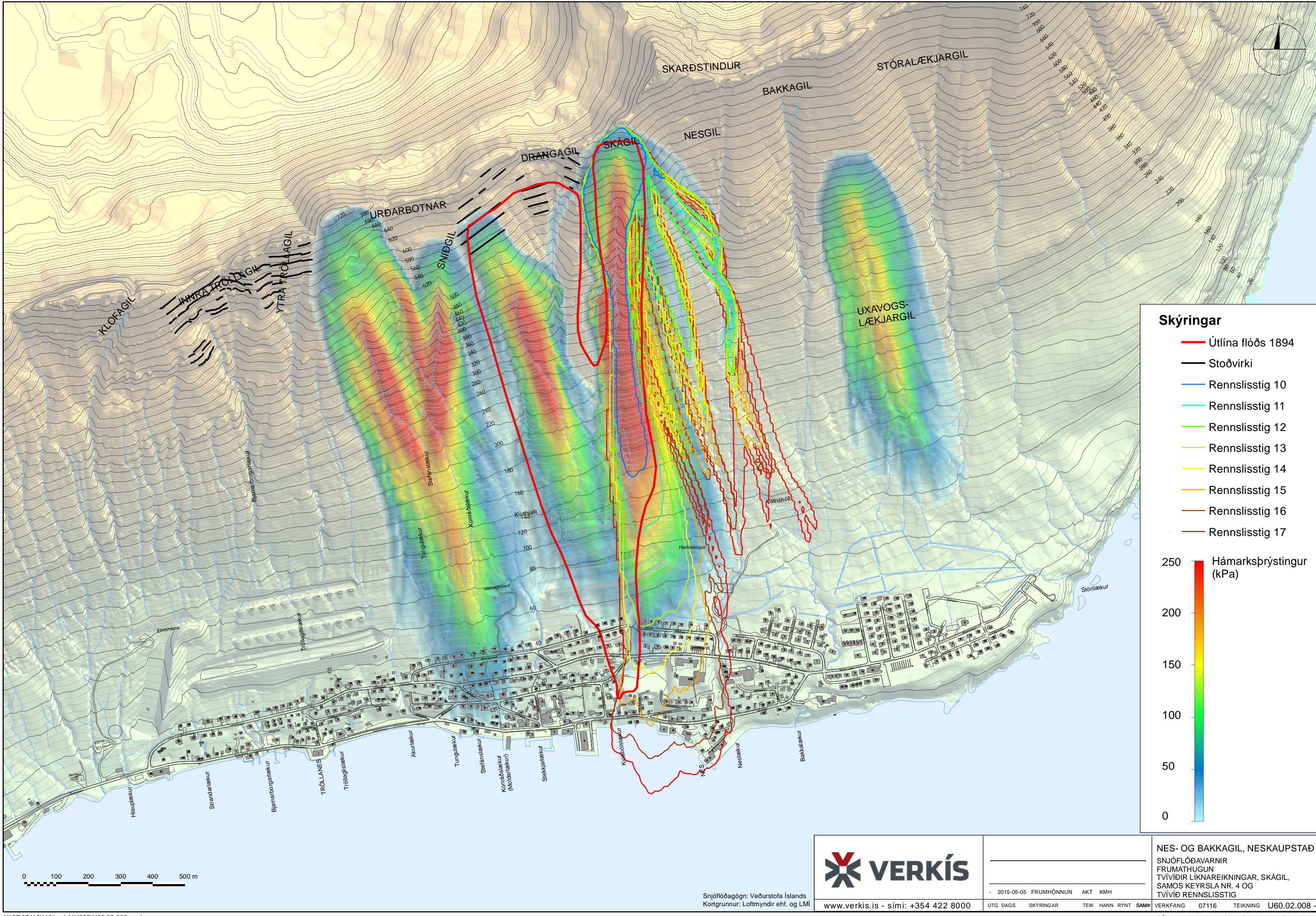
Snjóflóðagögn: Veðurstofa Íslands
Kortgrunnur: Loftmyndir ehf. og LMÍ

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2015-05-05 FRUMHÖNNUN AKT KMH
ÚTG DAGS SKÝRINGAR TEIK HANN RÝNT SAMP

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FRUMATHUGUN
FYRIRKOMULAG VARNA OG
TVÍVÍÐIR LÍKNAREIKNINGAR,
SAMOS KEYRSLA NR. 1

VERKFANG 07116 TEIKNING U60.02.007 -



Skýringar

- Útlína flóðs 1894
- Stoðvirki
- Rennslisstig 10
- Rennslisstig 11
- Rennslisstig 12
- Rennslisstig 13
- Rennslisstig 14
- Rennslisstig 15
- Rennslisstig 16
- Rennslisstig 17

Hámarksprýstingur (kPa)

250
200
150
100
50
0



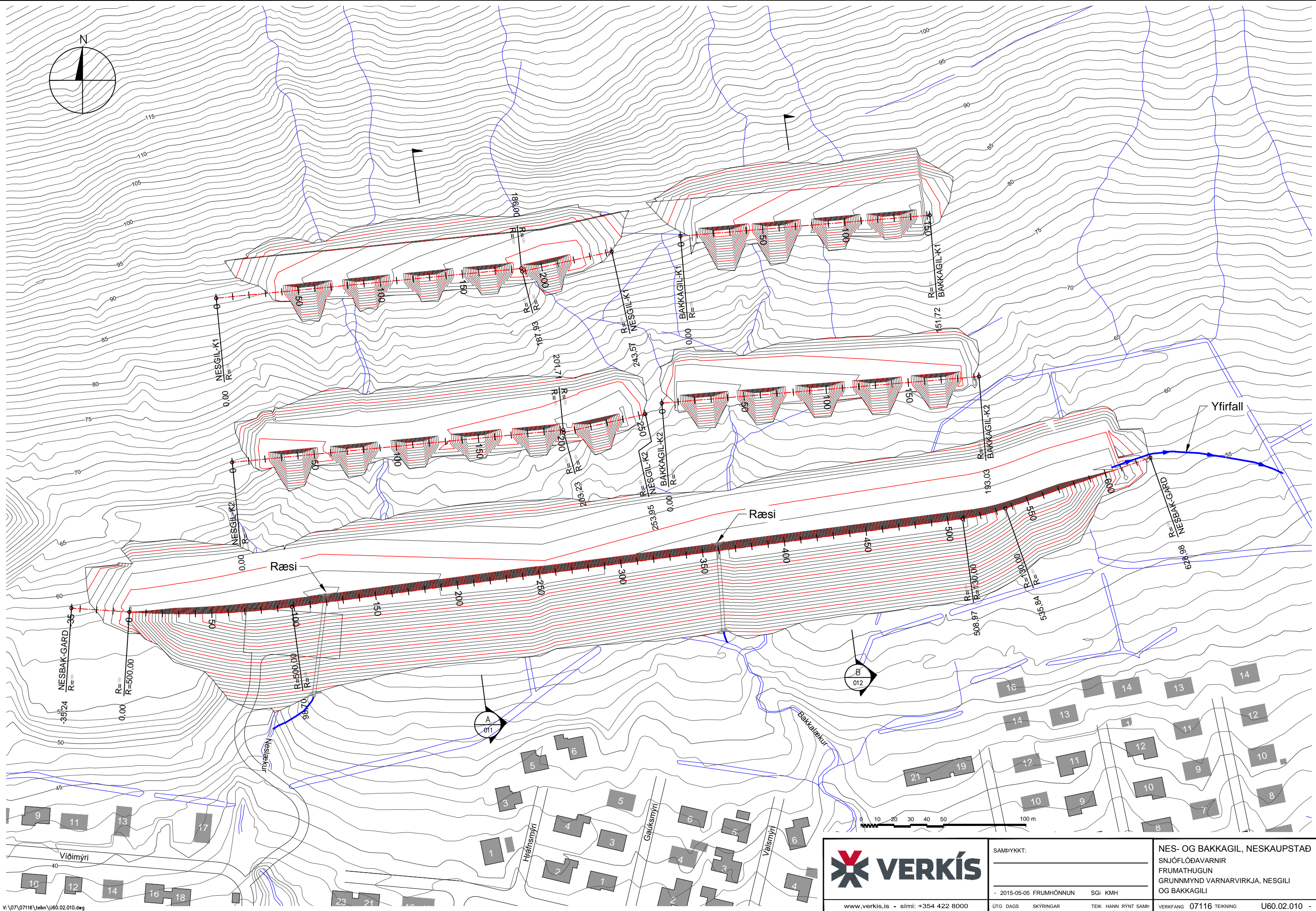
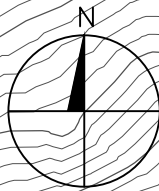
Snjóflóðagögn: Veðurstofa Íslands
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2015-05-05 FRUMHÖNNUN AKT KMH
ÚTG DAGS SKÝRINGAR TEIK HANN RÝNT SAM

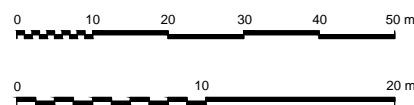
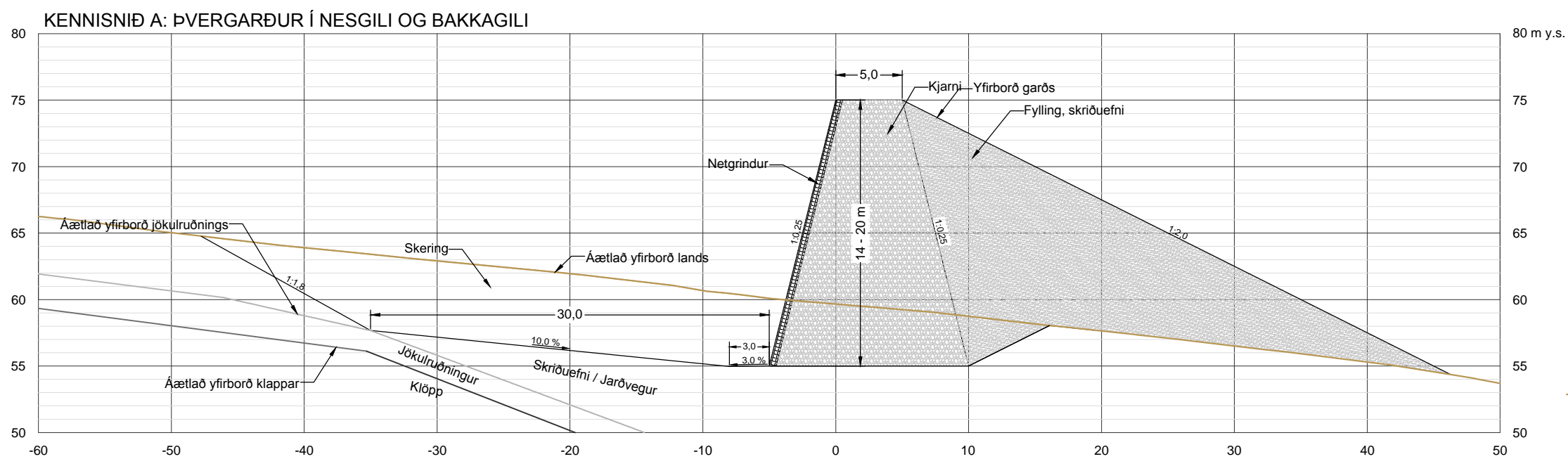
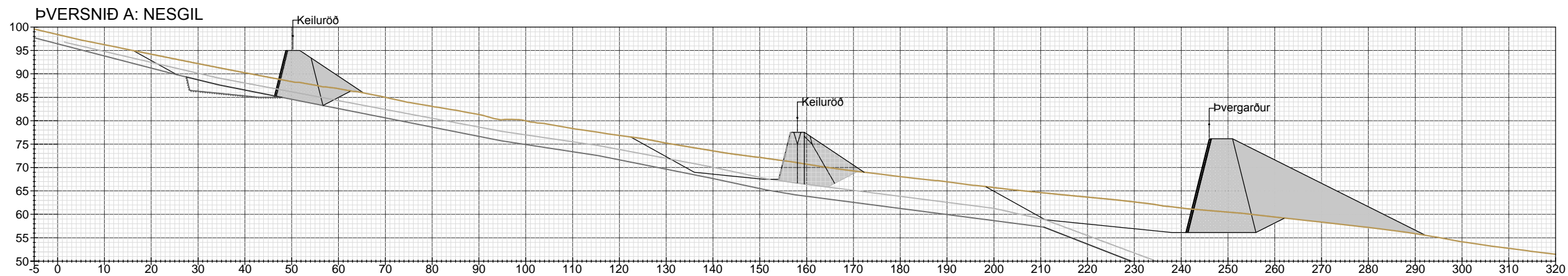
NES- OG BAKKAGIL, NESKAUPSTAÐ
SNJÓFLÓÐAVARNIR
FRUMATHUGUN
TVÍVÍÐIR LÍKNAREIKNINGAR, SKÁGIL,
SAMOS KEYRSLA NR. 4 OG
TVÍVÍÐ RENNSLISSTIG

VERKFAANG 07116 TEIKNING U60.02.008



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SAMPYKKT:		NES- OG BAKKAGIL, NESKAUPSTAD	
		SNJÓFLÓÐAVARNIR	
		FRUMATHUGUN	
		GRUNNMYND VARNARVIKJA, NESGILI	
		OG BAKKAGILI	
UTG DAGS	SKÝRINGAR	TEIK HANN RYNT SAMB	VERKFANG 07116 TEIKNING
- 2015-05-05	FRUMHÖNNUN	SGI KMH	U60.02.010 -



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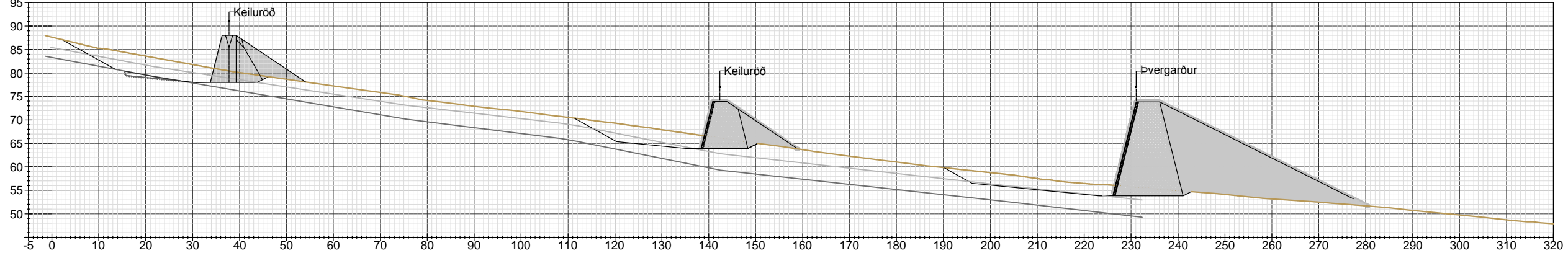
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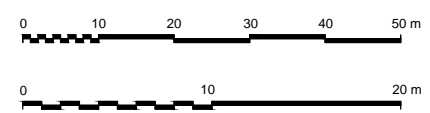
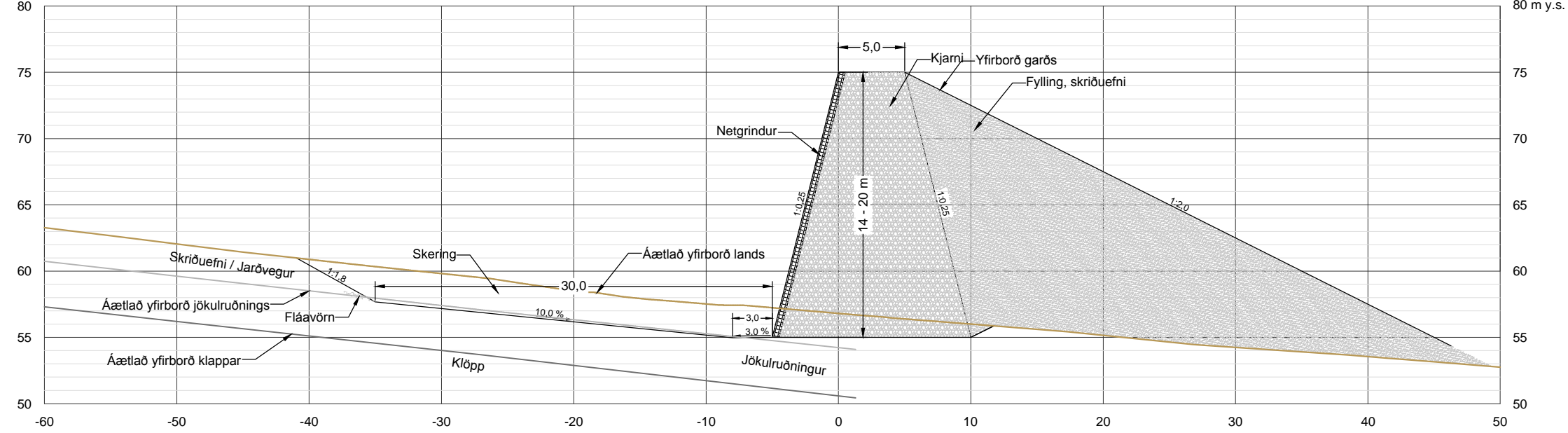
NES- OG BAKKAGIL, NESKAUPSTAÐ
 SNJÓFLÓÐAVARNIR
 FRUMATHUGUN
 KENNISNIÐ A Í VARNARGARÐ NEDAN
 NESGILS

VERKFANG 07116 TEIKNING U60.02.011 -

ÞVERSNIÐ B: BAKKAGIL



KENNISNIÐ B: ÞVERGARÐUR Í NESGILI OG BAKKAGILI

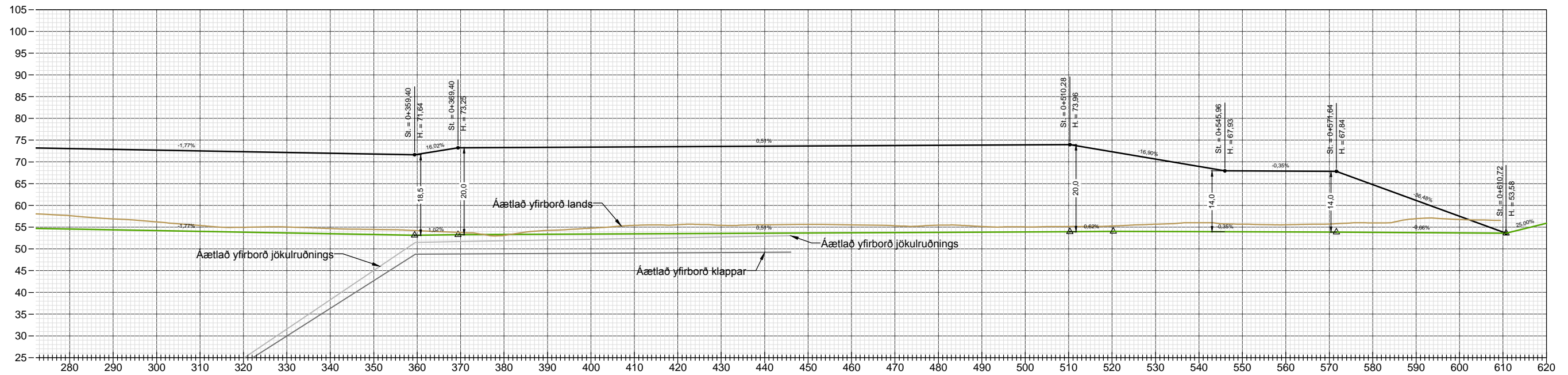
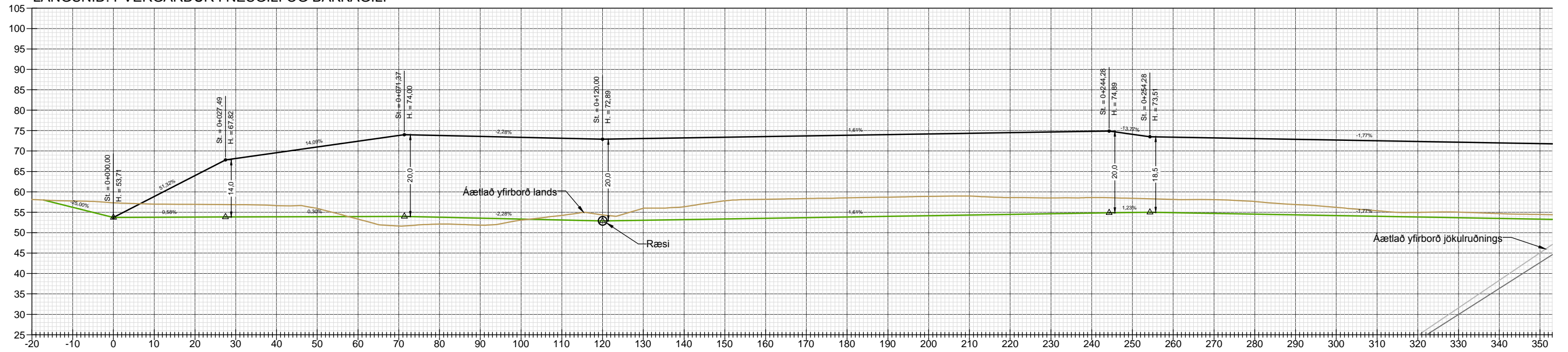


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SAMPYKKT:	
ÚTG DAGS	SKÝRINGAR
FRUMHÖNNUN	TEIKNING
SGI KMH	HANN RÝNT SAMP

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SNJÓFLÓÐAVARNIR	
FRUMATHUGUN	
KENNISNIÐ B Í VARNARGARÐ NEDAN	
BAKKAGILS	
VERK FANG	U60.02.012

LANGSNIÐ: ÞVERGARÐUR Í NESGILI OG BAKKAGILI

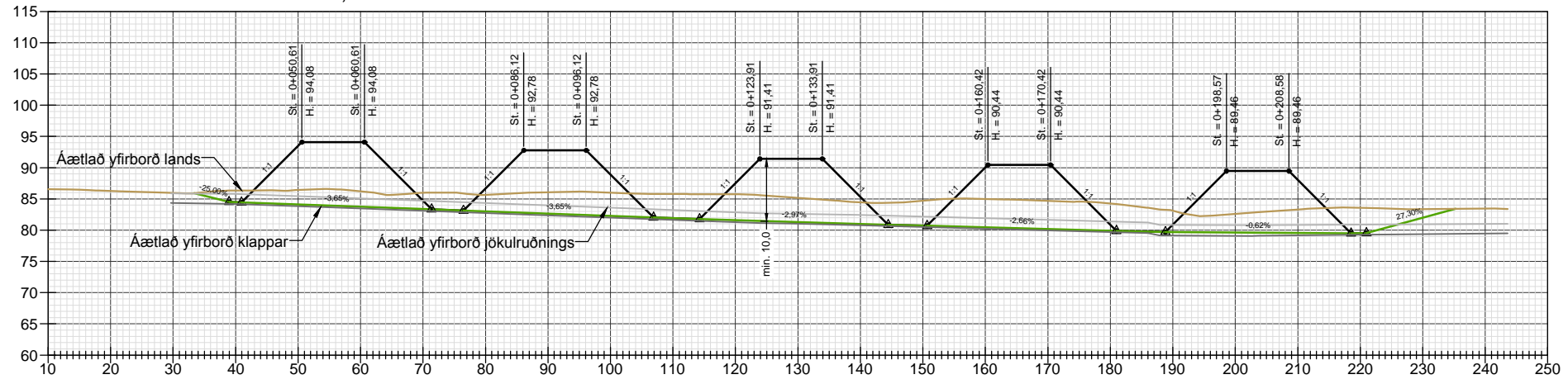


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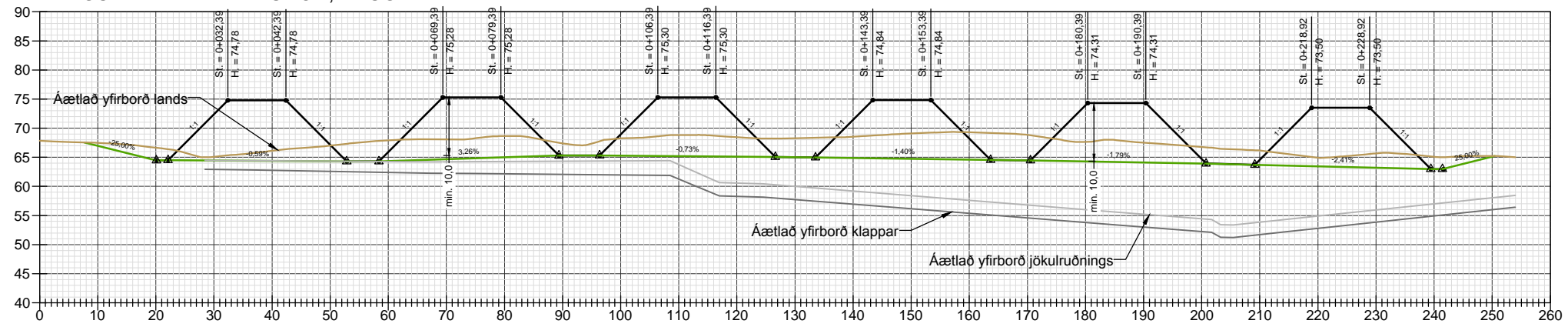
 - 2015-05-05 FRUMHÖNNUN SGI KMH
 ÚTG DAGS SKÝRINGAR TEIK HANN RÝNT SAMP

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 FRUMATHUGUN
 LANGSNIÐ Í ÞVERGARÐ
 VERKFAANG 07116 TEIKNING U60.02.013 -

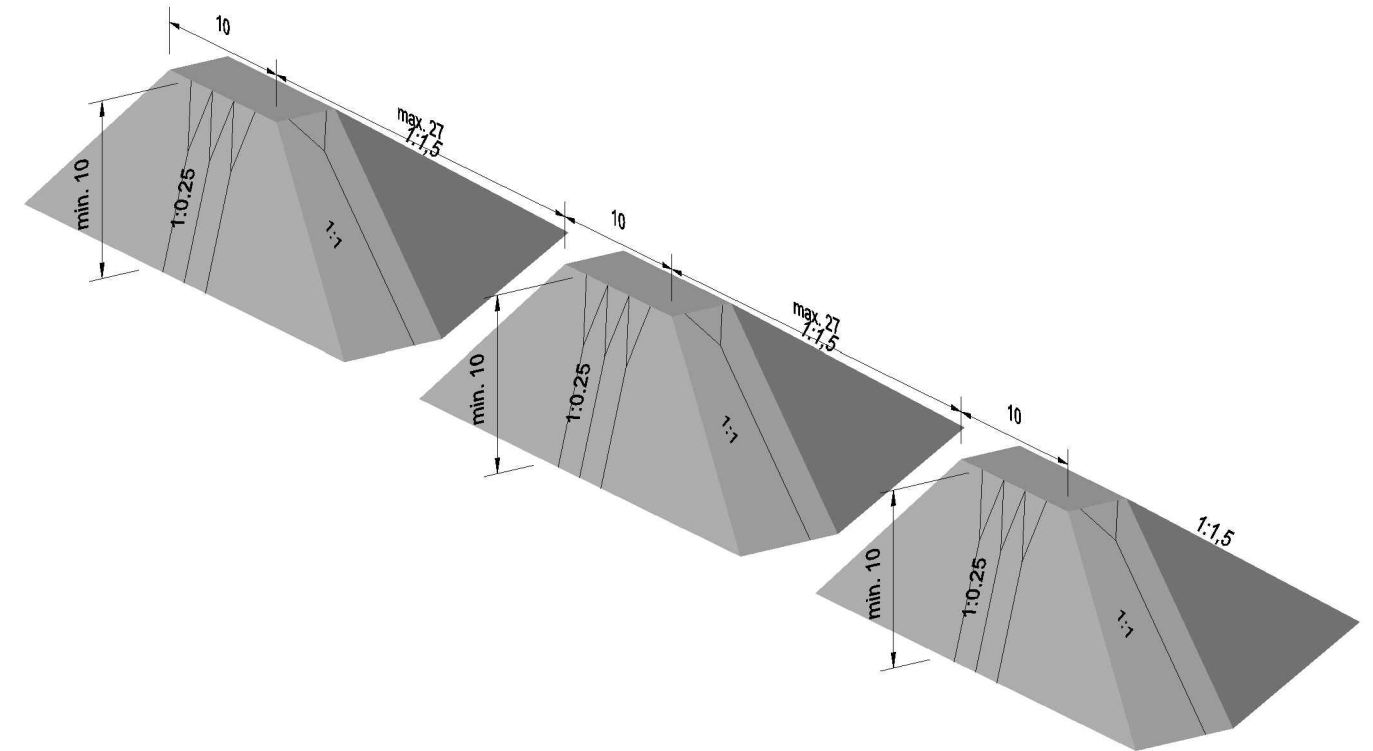
LANGSNIÐ: EFRI KEILURÖÐ, NESGLI



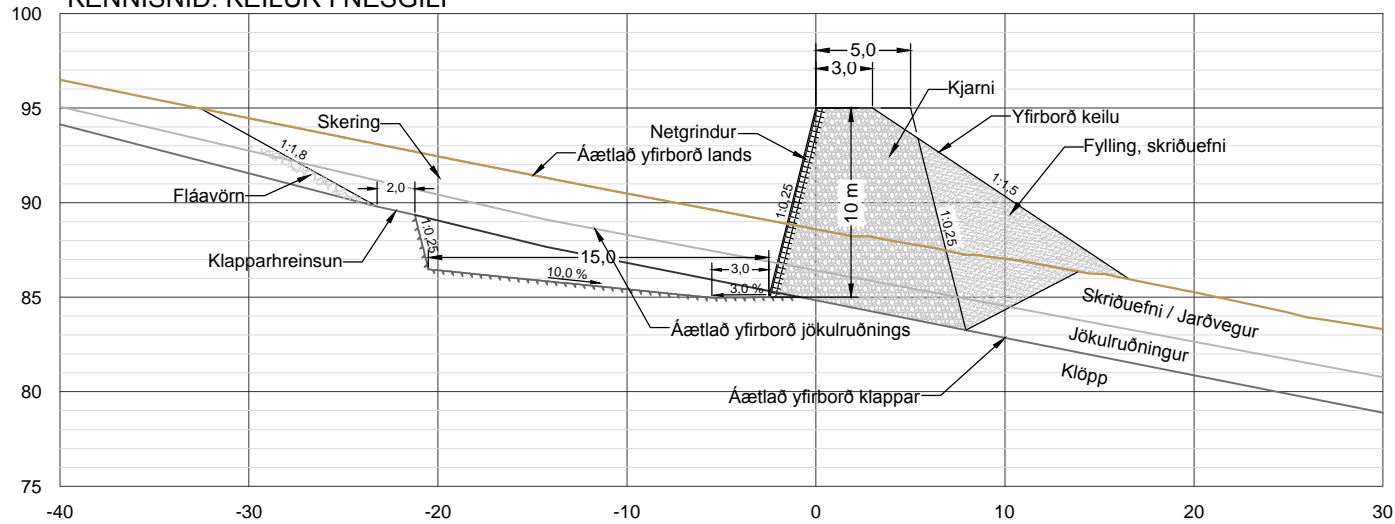
LANGSNIÐ: NEÐRI KEILURÖÐ, NESGLI



ÁSYND Á KEILUR, HELSTU KENNISTÆRÐIR



KENNISNIÐ: KEILUR Í NESGLI



SAMPYKKT:	_____	NES- OG BAKKAGIL, NESKAUPSTAÐ
ÚTG DAGS	SKÝRINGAR	FRUMATHUGUN
2015-05-05	FRUMHÖNNUN	LANGSNIÐ, KENNISNIÐ OG ÁSYND KEILNA
SGI KMH	TEIK HANN RÝNT SAMP	NESGLI
VERK FANG	07116 TEIKNING	U60.02.014



Skýringar

- Jarðkönnunargryfjur
- Fyrirkomulag varna



— 2015-05-05 FRUMHÖNNUN AKT BH

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SNJÓFLÓÐAVARNIR
FRUMATHUGUN
STAÐSETNING JARÐKÖNNUNARGRYFJA

Snjóflóðagögn: Veðurstofa Íslands
Kortgrunnur: Loftmyndir ehf. og LMI


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ÚTG DAGS SKÝRINGAR TEIK HANN RÝNT SAMÞ

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Skýringar

-  Fyrirkomulag varna
-  Steyptur stokkur
-  Ræsi, 110 cm þvermál
-  Rafmagn
-  Vatn/frárennsli



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VERKFRANG 07116 TEIKNING U60.02.017 -

Snjóflóðagögn: Veðurstofa Íslands
Kortgrunnur: Loftmyndir ehf. og LMÍ
Lagnir: Fjarðabyggð

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Skýringar

Varið svæði



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Kortgrunnur: Loftmyndir ehf. og LMÍ

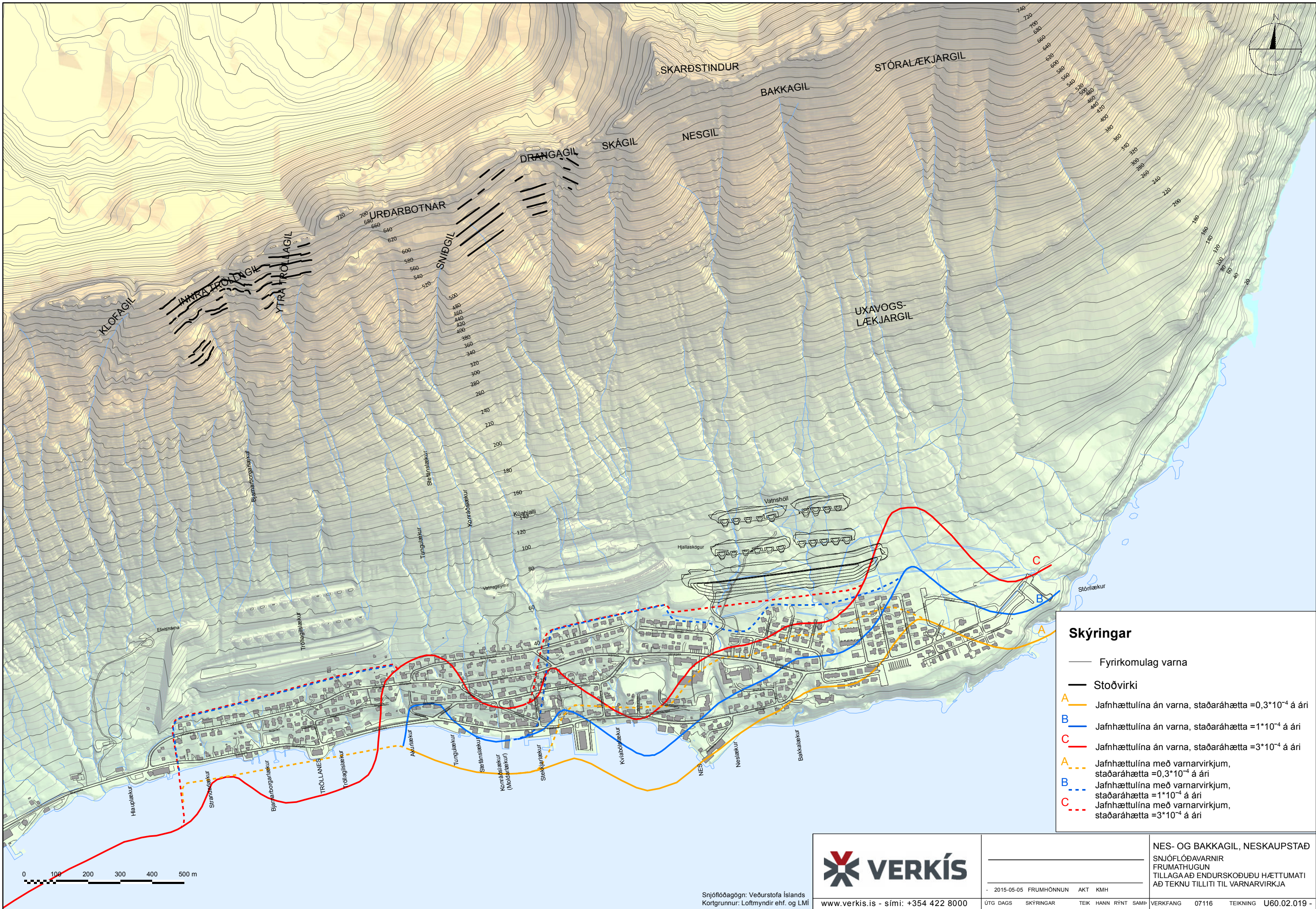
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Skýringar

- Fyrirkomulag varna
- Stoðvirki
- A — Jafnhættulína án varna, staðaráhætta = $0,3 \cdot 10^{-4}$ á ári
- B — Jafnhættulína án varna, staðaráhætta = $1 \cdot 10^{-4}$ á ári
- C — Jafnhættulína án varna, staðaráhætta = $3 \cdot 10^{-4}$ á ári
- A — Jafnhættulína með varnavirkjum, staðaráhætta = $0,3 \cdot 10^{-4}$ á ári
- B — Jafnhættulína með varnavirkjum, staðaráhætta = $1 \cdot 10^{-4}$ á ári
- C — Jafnhættulína með varnavirkjum, staðaráhætta = $3 \cdot 10^{-4}$ á ári

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 FRUMATHUGUN
 TILLAGA AÐ ENDURSKOÐUÐU HÆTTUMATI
 AÐ TEKNU TILLITI TIL VARNARVIKJA

VERKFANG 07116 TEIKNING U60.02.019 -



Hluti af Aðalskipulagi Fjarðarbyggðar 2007 - 2027
Þættisuppráttur fyrir Norðfjörð

SKÝRINGAR

- Áætluð mörk framkvæmdasvæðis
- Núverandi varnargarðar - Tröllagil og Drangagil
- Nýjar ofanflóðavarnir - keilur og varnargarðar
- Núv. 5 m hæðarlína
- 5 m hæðarlína
- Núv. gönguleiðir
- Nýir göngustígar, br. 3 m
- Tengistígar og núv. útivistarstígar
- Nýir útivistarstígar
- Þjónustustígar / vinnuvegur
- Göngustígar í Hjallaskógi
- Áningastaður
- Útsýnishæð
- Núverandi gróður
- Lækir
- Skurðir

BR. DAGS. BREYTING. TEKN.

MINNKADUR UPPRÁTTUR A1 > A3

FJARDABYGGÐ
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750 PFJ

Landmótun af teiknotölu landlagarkleika
Hafnarborg 12 s. 970 5300
200 Kúpanögur t. 554 5360 Netfang landmótun@landmótun.is

URÐARBOTN, NES- OG BAKKAGIL
FRUMATHUGUN - NORÐFJÖRÐUR

AFSTÖDUMYND - YFIRBORÐSFRÁANGUR

KVARDI 1: 4000 A1 DAGS. 04.05.2015 HENNAÐI BR.
VERUR 7300-HV1403 TEKNI: A01