ORKUSTOFNUN

Vatnamælingar

Vatnafar á Hraunum á Ströndum, frá Eyvindardal að Skúfnavötnum

Hlutvatnasvið á hálendi

Stefanía Guðrún Halldórsdóttir

Unnið fyrir Auðlindadeild Orkustofnunar

2002

OS-2002/075

ORKUSTOFNUN
VATNAMÆLINGAR

Skýrsla
OS–2002/075
Verknr. 7-548550

Stefanía G. Halldórsdóttir

Vatnafar á Hraunum á Ströndum, frá Eyvindardal að Skúfnavötnum

Hlutvatnasvið á hálendi

Unnið fyrir Auðlindadeild Orkustofnunar

OS–2002/075 **Desember 2002**

ORKUSTOFNUN: Kennitala 500269-5379 - Sími 569 6000 - Fax 568 8896
Netfang Vatnamælinga vm@os.is - Heimasíða http://www.os.is/vatnam

/os/sgh/OS2002-075

ORKUSTOFNUN
VATNAMÆLINGAR

Lykilsíða

Skýrsla nr:	Dags:	Dreifing:
OS-2002/075	Janúar 2003	☒Opin ☐Lokuð til

Heiti skýrslu / Aðal- og undirtitill: Vatnafar á Hraunum á Ströndum, frá Eyvindardal að Skúfnavötnum Hlutvatnasvið á hálendi	**Upplag:** 30 **Fjöldi síðna:** 40
Höfundar: Stefanía Guðrún Halldórsdóttir	**Verkefnisstjóri:** Kristinn Einarsson
Gerð skýrslu / Verkstig: Niðurstöður líkanareikninga, forathugun á rennsli	**Verknúmer:** 7-548550

Unnið fyrir:
Auðlindadeild Orkustofnunar

Samvinnuaðilar:

Útdráttur:
Greint er frá aðlögun HBV-rennslislíkans af Hvalá í Ófeigfirði og Þverá á Langadalsströnd að hlutvatnasviðum á Hraunum á Ströndum, frá Eyvindardal að Skúfnavötnum. Einnig er greint frá aðlögun HBV-rennslislíkans af Hvalá að Húsá í Ófeigsfirði. Hlutvatnasviðin á hálendi eru á vatnasviðum Eyvindarfjarðarár, Hvalár og Þverár. Rennslisraðir voru bornar saman við rennslismælingar sem gerðar hafa verið á Hraunum á Ströndum. Reiknaðar rennslisraðir spanna vatnsárin 1956-2001.

Lykilorð: Vatnamælingar, rennslislíkön, HBV-líkan, afrennsli, vatnafar, hlutvatnasvið, Hraun á Ströndum, Hvalá, Þverá á Langadalsströnd, Eyvindarfjarðará, Húsá, Ófeigsfjarðarheiði, Skúfnavötn, Vatnalautavatn, Rjúkandi.	**ISBN-númer:** **Undirskrift verkefnisstjóra:** **Yfirfarið af:** KE

Vatnafar á Hraunum á Ströndum, frá Eyvindardal að Staðardal
Hlutvatnasvið á hálendi

Samantekt

Í þessari skýrslu er greint frá niðurstöðum líkanreikninga á afrennsli af hlutvatnasviðum Hrauna á Ströndum. Líkön sem gerð voru af rennsli við vatnshæðarmæla Hvalár og Þverár á Langadalsströnd voru framlengd til 31. ágúst 2002 og þeim beitt á hlutvatnasvið á hálendi.

Rennslismælingaferð var farin í apríl 2002 og rennsli mælt á nokkrum stöðum á hálendi. Rennslismælistaðirnir voru svo notaðir sem safnpunktar fyrir líkön af hlutvatnasviðum og mælt rennsli borið saman við reiknað rennsli. Þessi aðferð gefur einungis hugmynd um hvort líkönin eru nálægt rennsli af hlutvatnasviðum, en fullnægir ekki skilyrðum um sannprófun líkana.

Verkefnið var unnið af Vatnamælingum Orkustofnunar (Stefanía G. Halldórsdóttir, verkefnisstjóri Kristinn Einarsson) fyrir Auðlindadeild Orkustofnunar.

Reykjavík 27. desember 2002

Stefanía Guðrún Halldórsdóttir

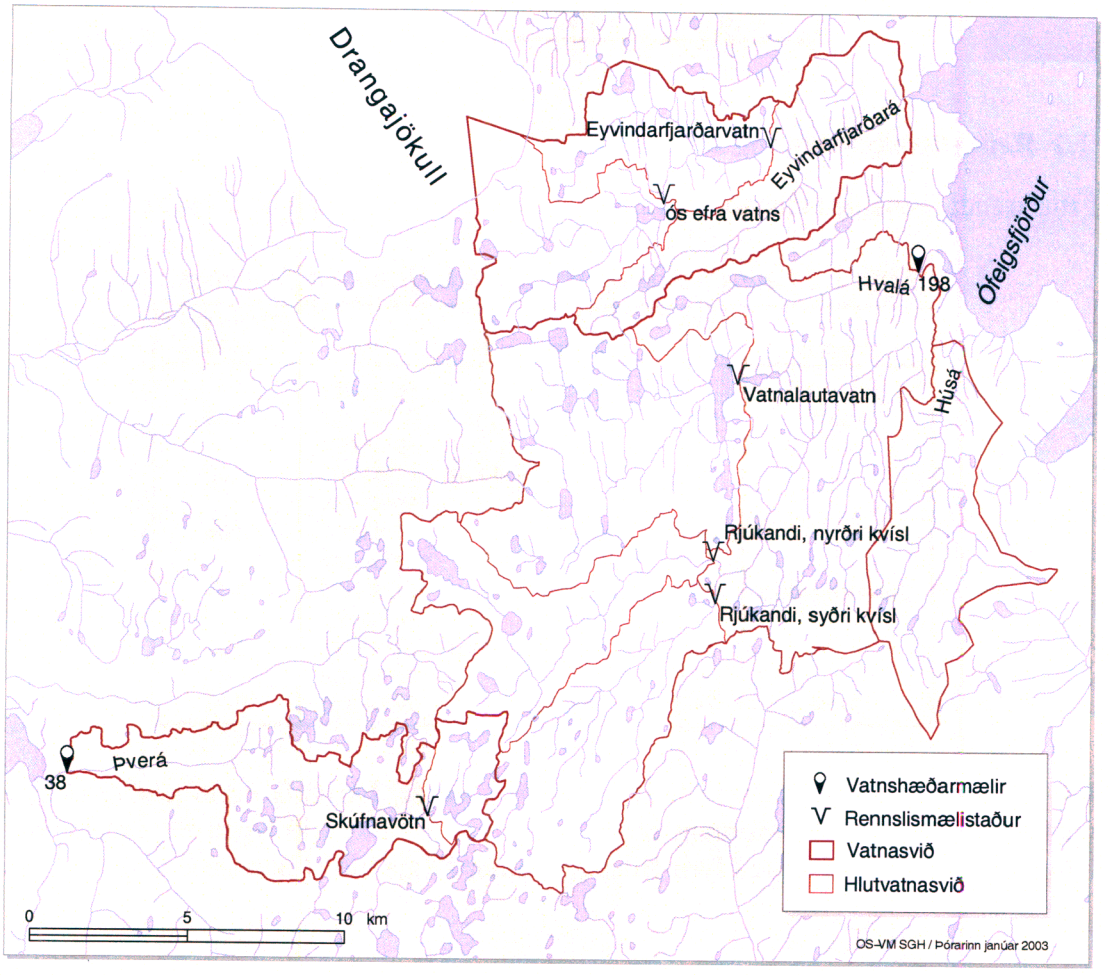
Efnisyfirlit

1 Inngangur

Hér er greint frá framlengingu rennslisraða sem reiknaðar voru fyrir Þverá á Langadalsströnd og Hvalá og Húsá í Ófeigsfirði. Einnig verður greint frá aðlögun þessara líkana að hlutvatnasviðum á Hraunum á Ströndum, en það svæði hefur gjarnan gengið undir heitinu Ófeigsfjarðarheiði í skýrslum Orkustofnunar (mynd 1.1).

Þegar HBV-líkani er beitt á hlutvatnasvið þarf að breyta hæðardreifingu og stærð vatnasviðs innan þess. Að öðru leyti er stuðst við sömu stuðlaskrá og sömu veðurgögn. Stuðlaskrárnar sem notaðar voru í þessu verkefni eru í viðauka II í skýrslunni. Safnpunktar eru rennslismælistaðir þar sem lágrennslismælingar voru gerðar í apríl 2002. Reiknaðar rennslisraðir spanna tímabilið 1.9.1956 – 31.8.2002. Reiknað rennsli er borið saman við mælt rennsli á sama tíma.

Hér er aðeins stuðst við eina rennslismælingu, og uppfyllir það ekki kröfur um sannprófun líkana, en gefur aðeins vísbendingu um gildi þeirra.



Mynd 1.1 Hlutvatnasvið á Hraunum á Ströndum og vatnasvið vatnshæðarmæla Hvalá, vhm198 og Þverár vhm38.

1.1 Veðurgögn

Eftirfarandi veðurstöðvar voru notaðar við líkanagerð og þeim gefið vægi eftir að hafa verið prófaðar á móti afrennsli. Sama vægi er haldið á hlutvatnasviðum á hálendi.

Tafla 1.1 Veðurstöðvar.

	Hvalá	Þverá
Úrkomustöð		
Galtarviti		25%
Æðey		50%
Gjögur	85%	25%
Hraun á Skaga	15%	
Hitastöð		
Galtarviti		30%
Æðey		70%
Gjögur	100%	

1.2 Rennslismælistaðir og safnpunktar

Eftirfarandi rennslismælistaðir voru valdir sem safnpunktar við líkanagerð.

Tafla 1.2 Rennslismælingar á hálendi Hrauna á Ströndum.

Vatnsfall	Staðar-número	Hlutvatnasvið	Hnit	Mælt rennsli í apríl 2002
Hvalá	2453	Vatnalautavatn	66°06,057 21°52,752	0,33
	2478	Rjúkandi, nyrðri kvísl	65°58,920 21°53,303	0,08
	2481	Rjúkandi, syðri kvísl	65°58,214 21°53,071	0,04
Eyvindarfjarðará	2480	Ós efra vatns	66°04,969 21°56,470	0,14
	2479	Eyvindarfjarðarvatn	66°06,057 21°52,124	0,21
Þverá	2477	Skúfnavötn	65°54,258 22°04,488	0,03

Í 4. kafla er fjallað um afrennsli af vatnasviði Húsár. Þar hafa verið gerðar nokkrar rennslismælingar á undanförnum árum, og líkan af Hvalá verið lagað að vatnasviðinu. Niðurstöður líkanareikninga fyrir Húsá eru látnar fylgja með í þessari skýrslu.

2 Afrennsli hlutvatnasviða Hvalár í Ófeigsfirði

Líkan af Hvalá, sem gert var í desember 2001 (Stefanía G. Halldórsdóttir, 2001), var framlengt út vatnsárið 2002 og það svo aðlagað að hlutvatnasviðum Hvalár til að fá betri mynd af afrennsli á hálendi. Reiknaðar raðir fyrir öll vatnasviðin spanna tímabilið 1.9.1956 til 31.8.2002.

Tafla 2.1 sýnir afrennsli af hlutvatnasviðum Hvalár. Meðalrennsli er meðaltal af meðalársrennsli.

Tafla 2.1. Reiknað afrennsli af hlutvatnasviðum Hvalár.

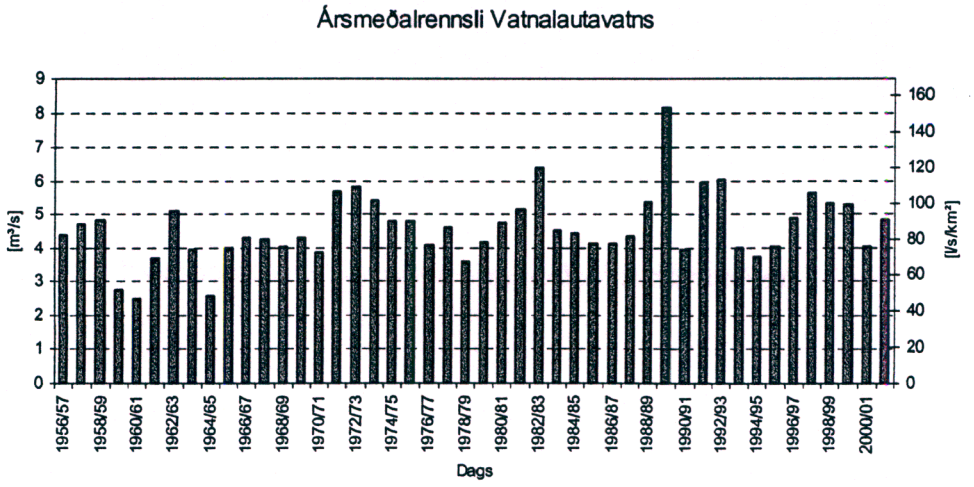
Vatnasvið	Km²	Hlutfall af vatnasviði Hvalár	Reiknað meðalrennsli [m³/s]	Reiknað meðal-afrennsli [l/s/km²]	Hlutfall af reiknuðu rennsli Hvalár
Vatnalautavatn	53,3	30%	4,6	86	31%
Rjúkandi, nyrðri kvísl	29,6	17%	2,6	88	17%
Rjúkandi, syðri kvísl	34,4	19%	3,0	88	20%

Tafla 2.2 sýnir rennslismælingar sem gerðar hafa verið á hlutvatnasviðum Hvalár. Mælingarnar voru gerðar við stöðugt veðurfar, og má túlka sem einkennandi fyrir lágrennsli af viðkomandi hlutvatnasviðum.

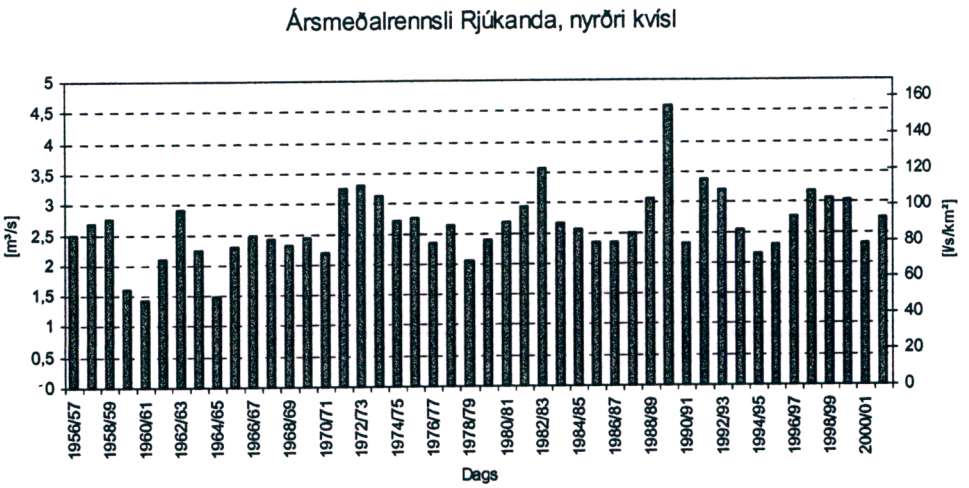
Tafla 2.2 Rennslismælingar á hlutvatnasviðum Hvalár.

Vatnasvið	Dags	Rennsli [m³/s]
Vatnalautavatn	14.4.2002	0,33
Rjúkandi, nyrðri kvísl	16.4.2002	0,04
Rjúkandi, syðri kvísl	16.4.2002	0,08

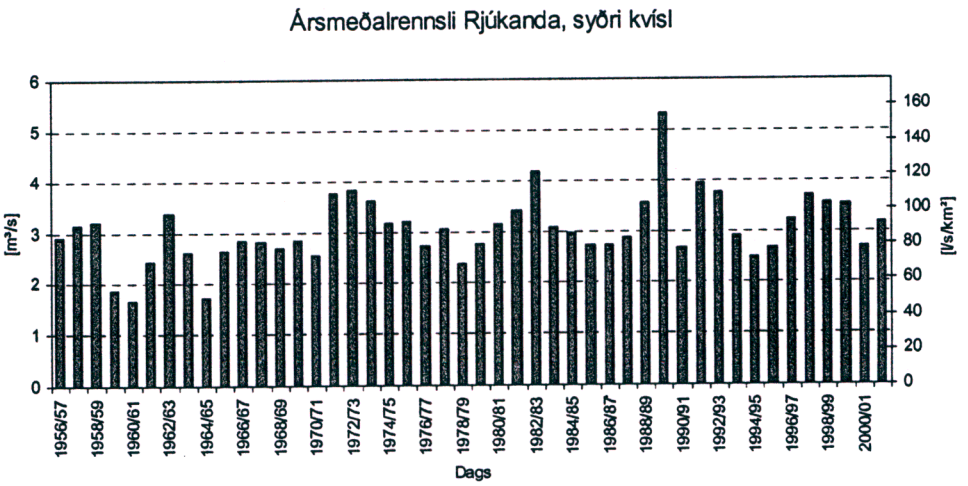
Myndir 2.1 til 2.3 sýna reiknað ársmeðalrennsli hlutvatnasviðanna fyrir tímabilið 1.9.1956 til 31.8.2002.



Mynd 2.1 Reiknað ársmeðalrennsli vatnasviðs Vatnalautavatns.

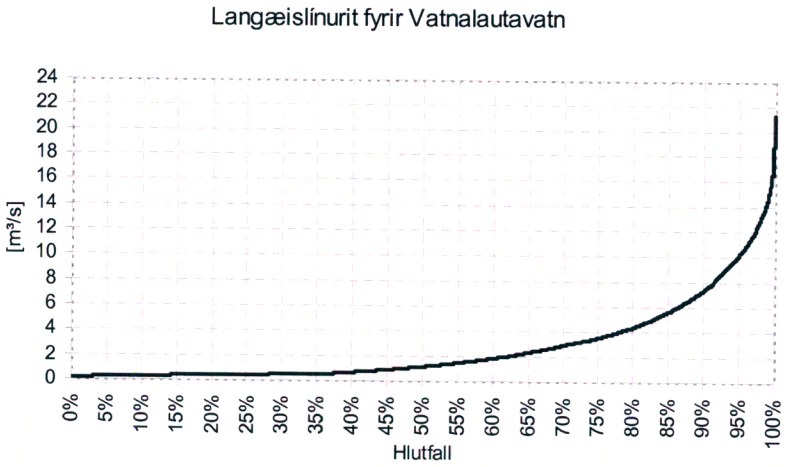


Mynd 2.2 Reiknað ársmeðalrennsli vatnasviðs Rjúkanda, nyrðri kvísl.

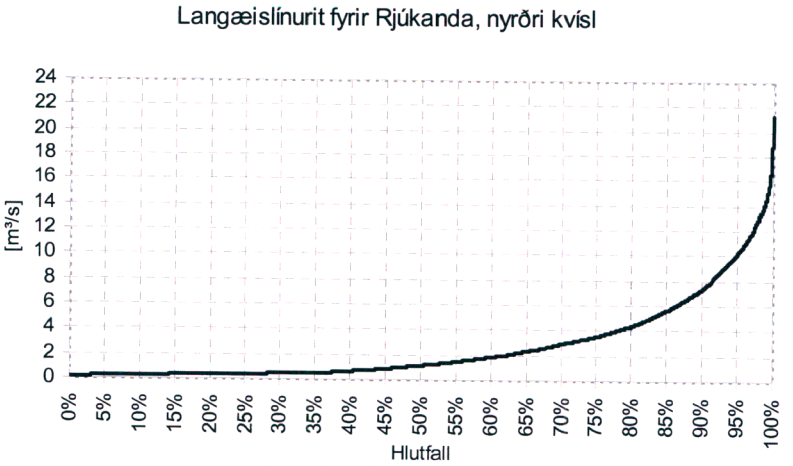


Mynd 2.3 Reiknað ársmeðalrennsli vatnasviðs Rjúkanda, syðri kvísl.

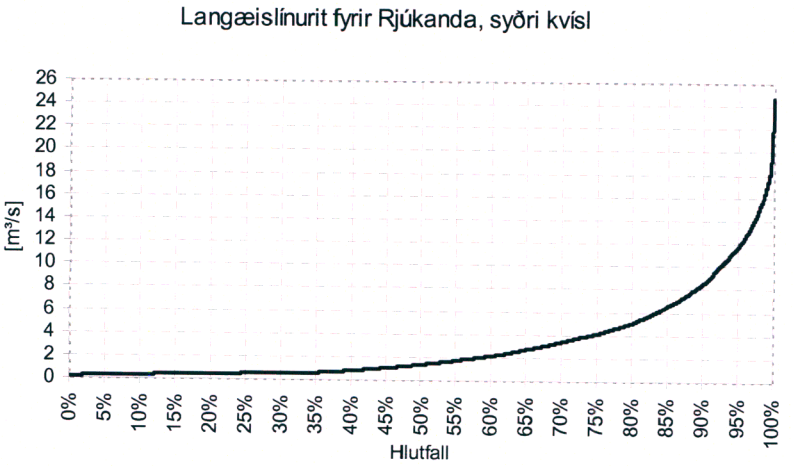
Myndir 2.4 til 2.6 sýna langæislínurit fyrir reiknað rennsli hlutvatnasviða Hvalár.



Mynd 2.4 Langæislínurit fyrir rennsli Vatnalautavatns.

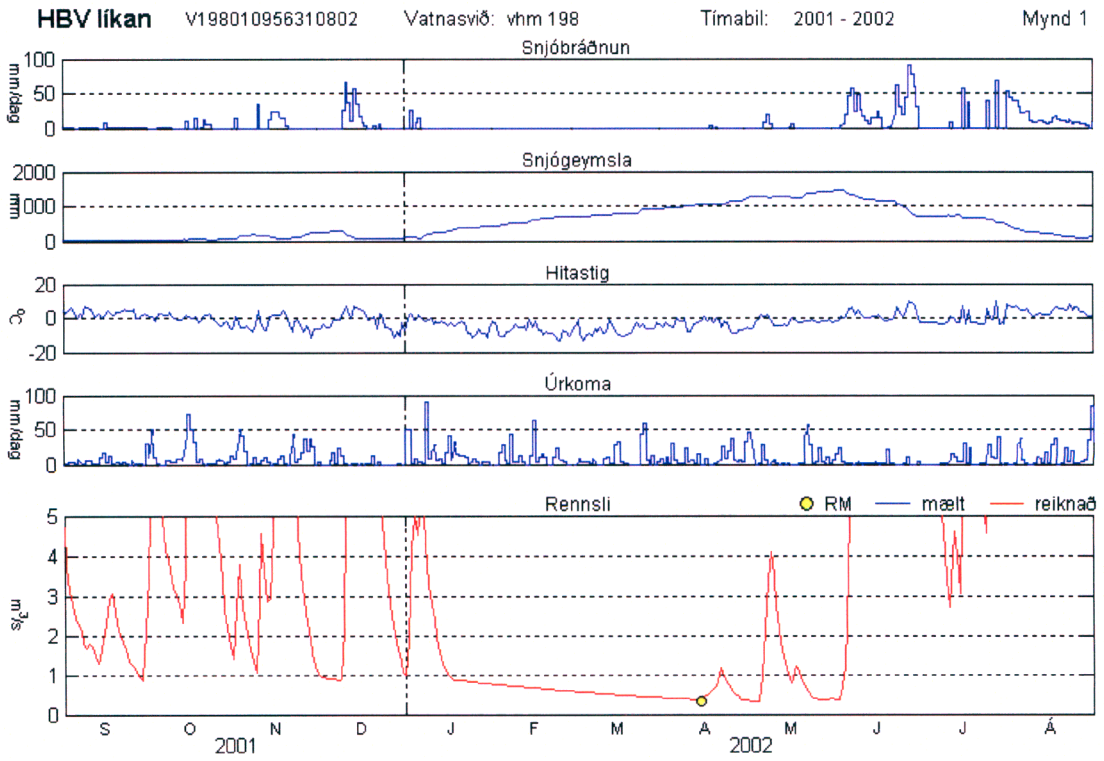


Mynd 2.5 Langæislínurit fyrir rennsli Rjúkanda, nyrðri kvísl.

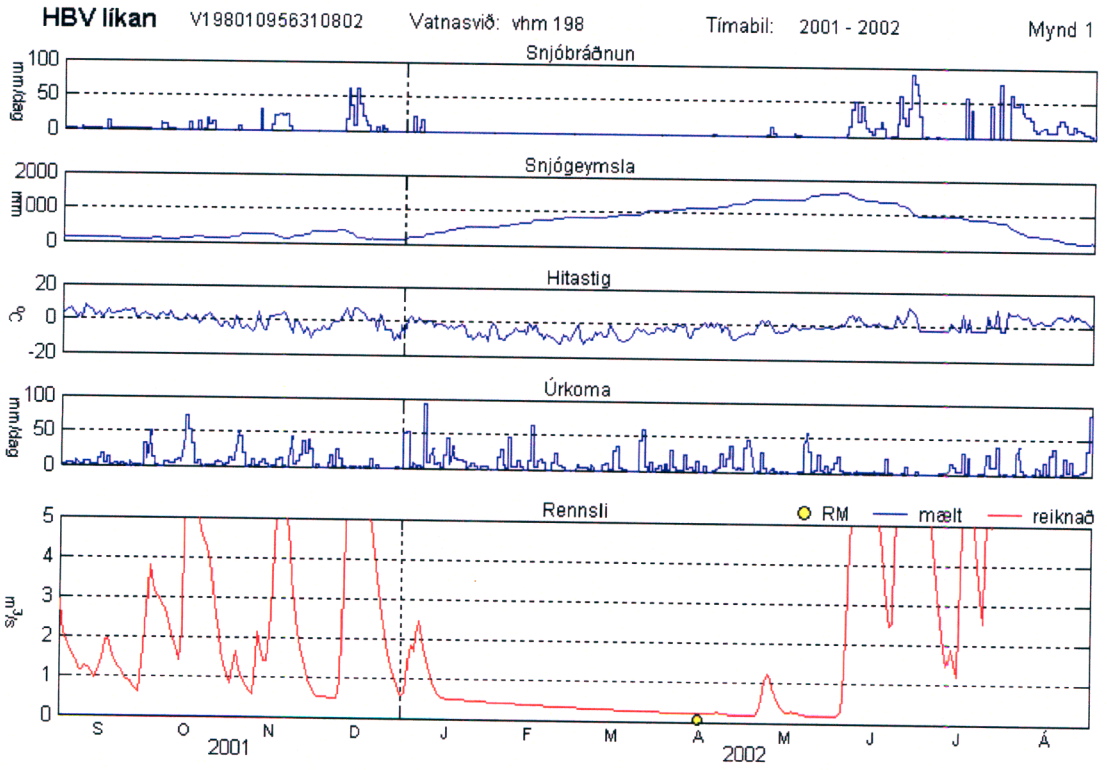


Mynd 2.6 Langæislínurit fyrir rennsli Rjúkanda, nyrðri kvísl.

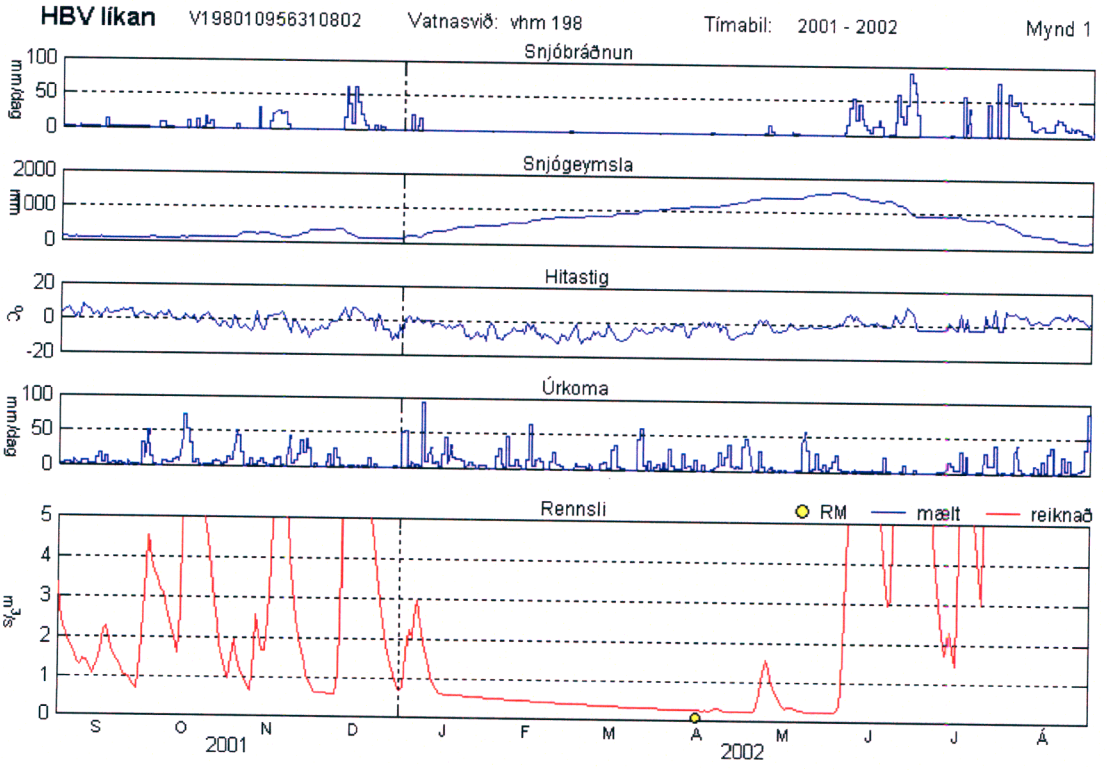
Myndir 2.7 til 2.9 sýna samanburð á mældu og reiknuðu rennsli hlutvatnasviða Hvalár.



Mynd 2.7 Samanburður á mældu og reiknuðu rennsli Vatnalautavatns 1.9.2001-31.8.2002.



Mynd 2.8 Samanburður á mældu og reiknuðu rennsli Rjúkanda, nyrðri kvísl 1.9.2001-31.8.2002.



Mynd 2.9 Samanburður á mældu og reiknuðu rennsli Rjúkanda, syðri kvísl 1.9.2001-31.8.2002

3 Afrennsli hlutvatnasviða Eyvindarfjarðarár í Eyvindarfirði

Líkan af Hvalá, sem gert var í desember 2001 (Stefanía G. Halldórsdóttir, 2001), var framlengt út vatnsárið 2002 og það svo aðlagað að tveim hlutvatnasviðum Eyvindarfjarðarár til að fá betri mynd af afrennslinu á hálendi. Reiknaðar raðir fyrir bæði vatnasviðin spanna tímabilið 1.9.1956 til 31.8.2002.

Tafla 2.1 sýnir afrennsli af hlutvatnasviðum Eyvindarfjarðarár. Meðalrennsli er meðaltal af meðalársrennsli.

Tafla 3.1. Reiknað afrennsli af hlutvatnasviðum Eyvindarfjarðarár.

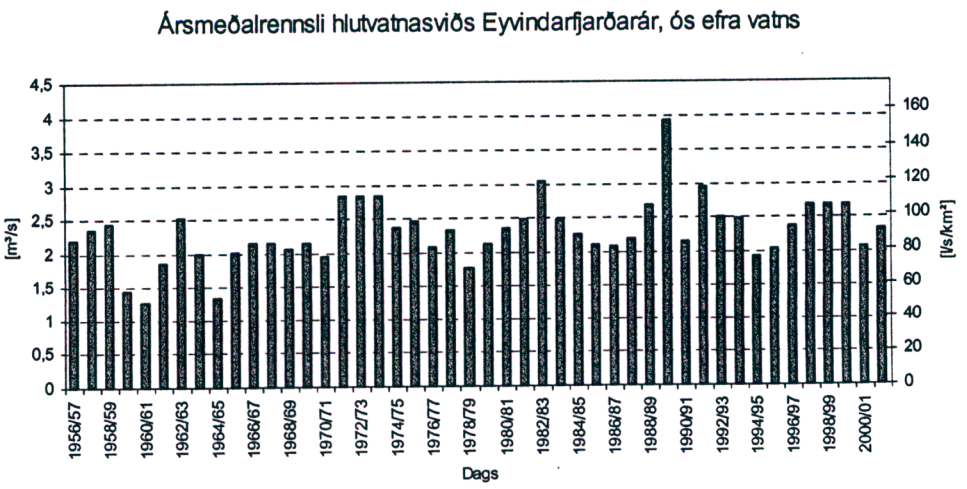
Vatnasvið	Km²	Hlutfall af vatnasviði Hvalár	Meðalrennsli [m³/s]	Meðalafrennsli [l/s/km²]	Hlutfall af reiknuðu rennsli Hvalár
Ós efra vatns	25,7	14%	2,3	90	15%
Ós Evindarfjarðarvatns	47,1	26%	4,1	87	27%

Tafla 3.2 sýnir rennslismælingar sem gerðar hafa verið á hlutvatnasviðum Eyvindarfjarðarár. Mælingarnar voru gerðar við stöðugt veðurfar, og má túlka sem einkennandi fyrir lágrennsli af viðkomandi hlutvatnasviðum.

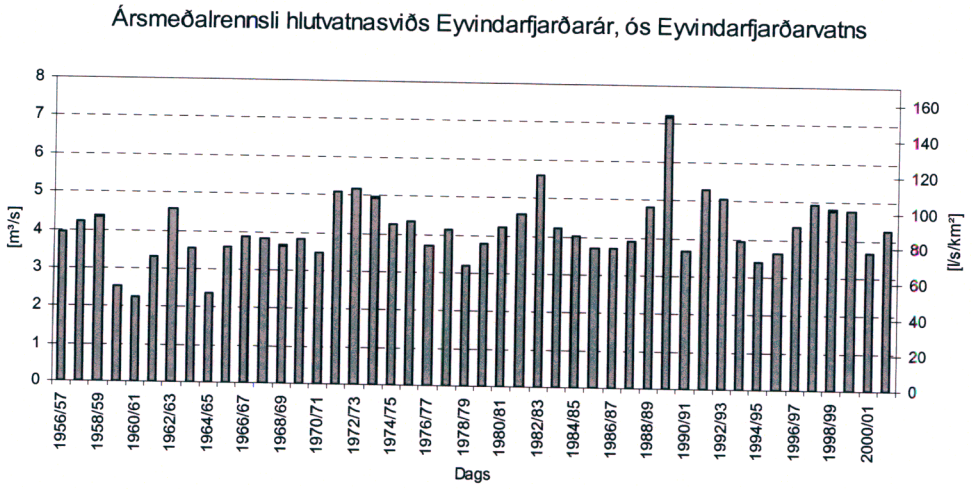
Tafla 3.2 Rennslismælingar á hlutvatnasviðum Eyvindarfjarðarár.

Vatnasvið	Dags	Rennsli [m³/s]
Ós efra vatns	15.4.2002	0,14
Ós Evindarfjarðarvatns	14.4.2002	0,21

Myndir 3.1 og 3.2 sýna reiknað ársmeðalrennsli fyrir tímabilið 1.9.1956 til 31.8.2002.

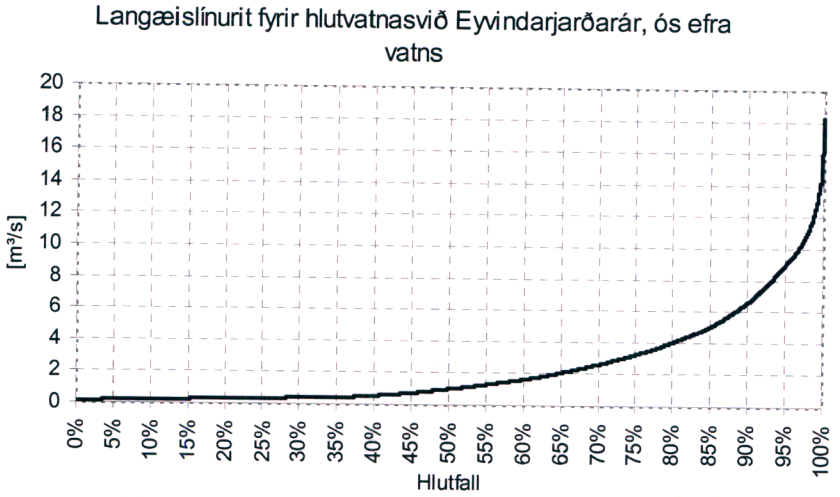


Mynd 3.1 Reiknað ársmeðalrennsli hlutvatnasviðs Eyvindarfjarðarár, ós efra vatns.

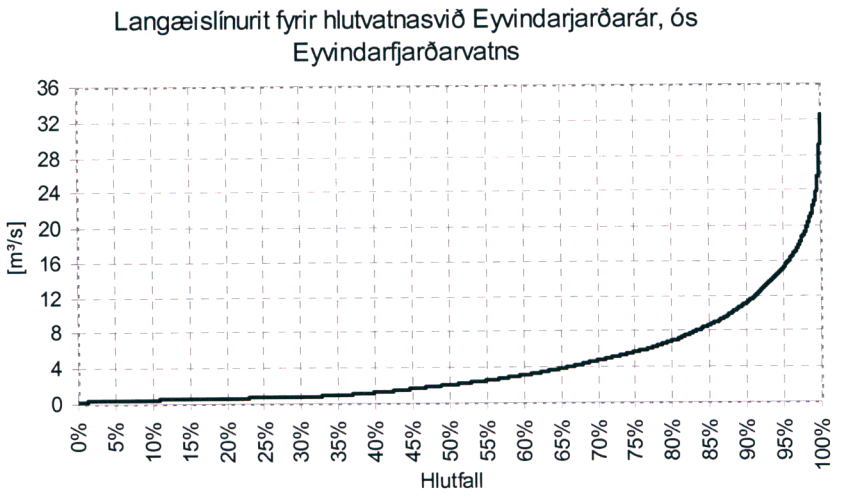


Mynd 3.2 Reiknað ársmeðalrennsli vatnasviðs Eyvindarfjarðarvatns.

Myndir 3.3 og 3.4 sýna langæislínurit fyrir rennsli af hlutvatnasviðum Eyvindarfjarðarár.

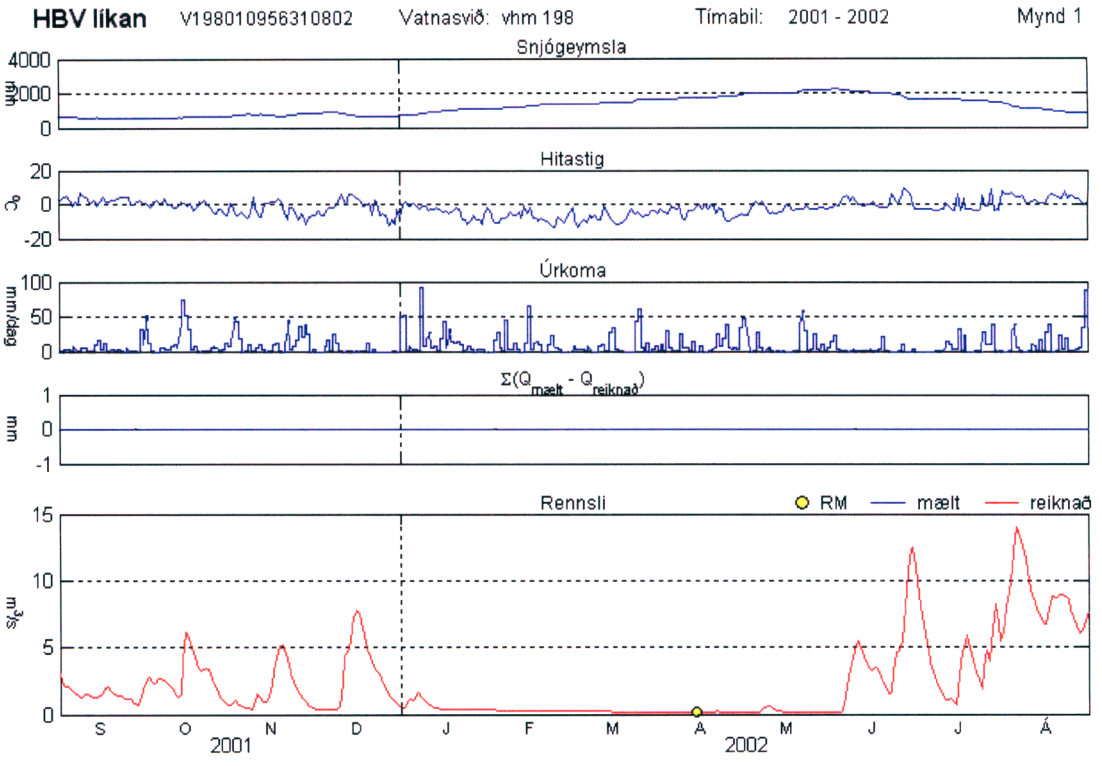


Mynd 3.3 Langæislínurit fyrir rennsli hlutvatnasviðs Eyvindarfjarðarár, ós efra vatns.

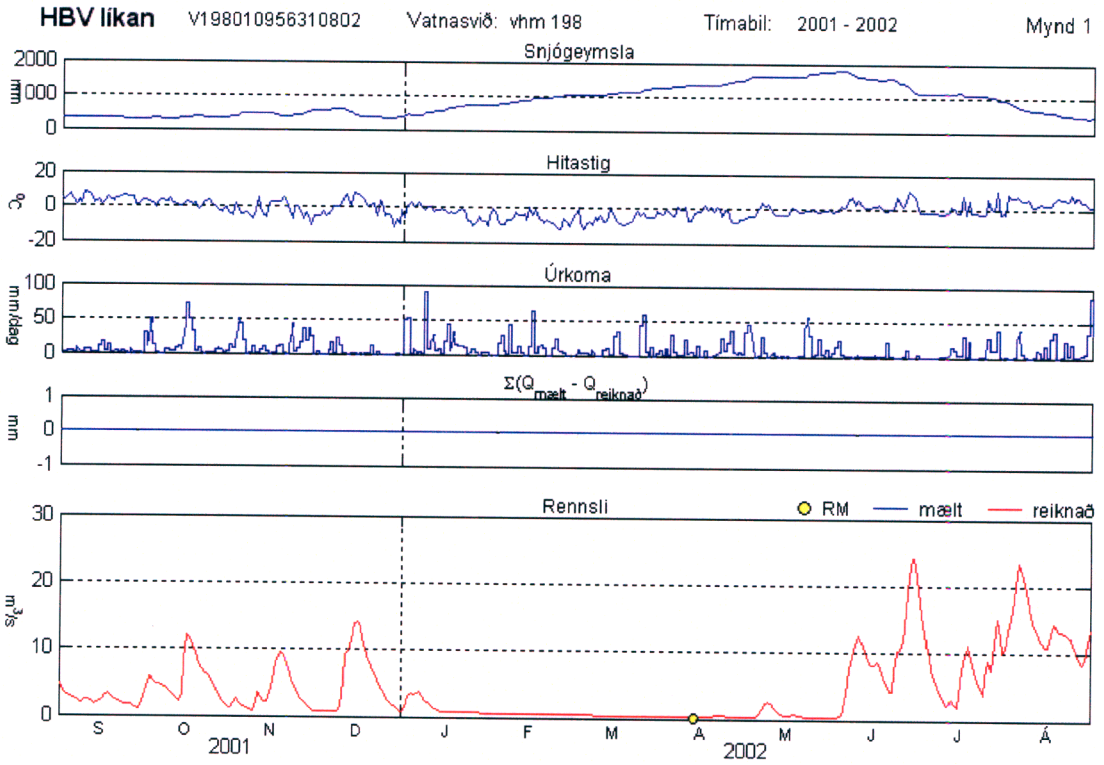


Mynd 3.4 Langæislínurit fyrir rennsli Eyvindarfjarðarvatns.

Myndir 3.5 og 3.6 sýna samanburð á mældu og reiknuðu rennsli hlutvatnasviða Eyvindarfjarðarár.



Mynd 3.5 Samanburður á mældu og reiknuðu rennsli við ós efra vatns á vatnasviði Eyvindarfjarðarár 1.9.2001-31.8.2002.



Mynd 3.6 Samanburður á mældu og reiknuðu rennsli Eyvindarfjarðarvatns 1.9.2001-31.8.2002.

4 Afrennsli vatnasviðs Húsár í Ófeigsfirði

Líkan af Hvalá, sem gert var í desember 2001 (Stefanía G. Halldórsdóttir, 2001), var framlengt út vatnsárið 2002 og það svo aðlagað að vatnasviði Húsár. Reiknuð rennslisröð fyrir Húsá spannar tímabilið 1.9.1956 til 31.8.2002.

Tafla 4.1 sýnir afrennsli af vatnasviði Húsár.

Tafla 4.1. Reiknað afrennsli vatnasviðs Húsár.

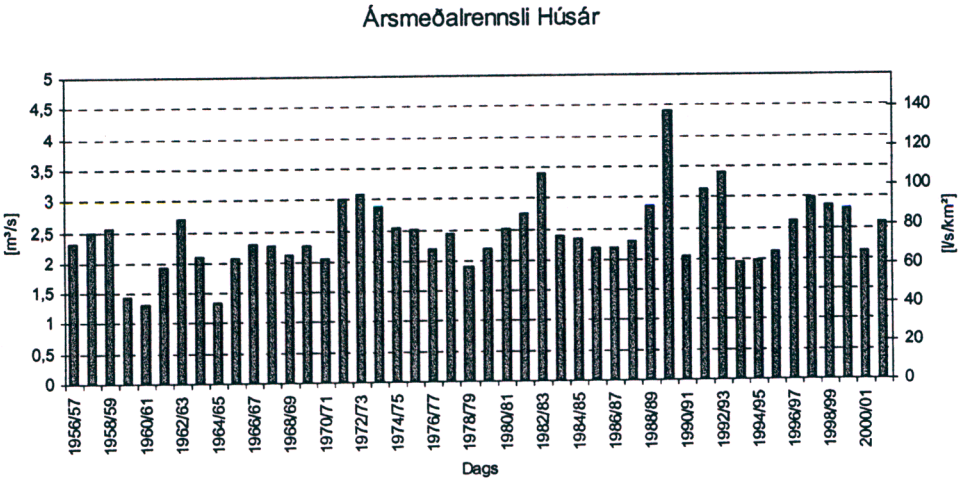
Vatnasvið	Km²	Hlutfall af vatnasviði Hvalár	Meðalrennsli [m³/s]	Meðalafrennsli [l/s/km²]	Hlutfall af reiknuðu rennsli Hvalár
Húsá	32,06	18%	2,43	76	16%

Tafla 4.2 sýnir rennslismælingar sem gerðar hafa verið í Húsá.

Tafla 4.2 Rennslismælingar í Húsá.

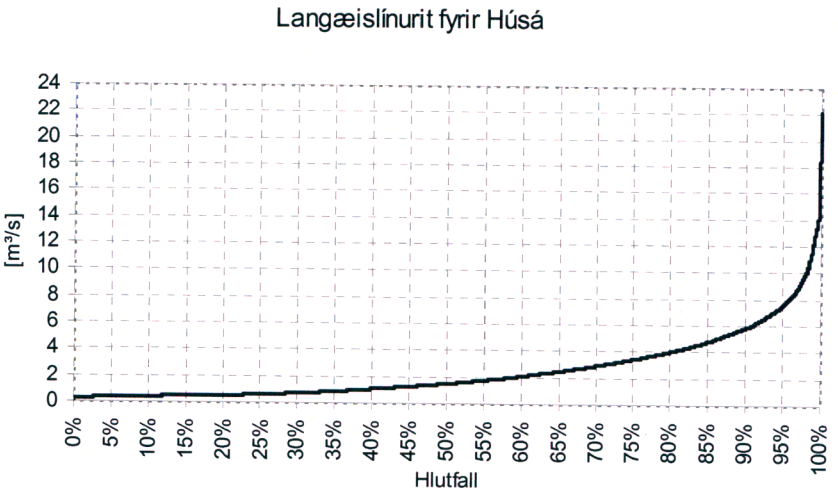
Dags	Rennsli [m³/s]
4.11.1976	0,39
29.4.1995	0,19
9.11.1996	0,21
10.8.1999	0,75
9.7.2002	3,10

Mynd 4.1 sýnir reiknað ársmeðalrennsli fyrir tímabilið 1.9.1956 til 31.8.2002.



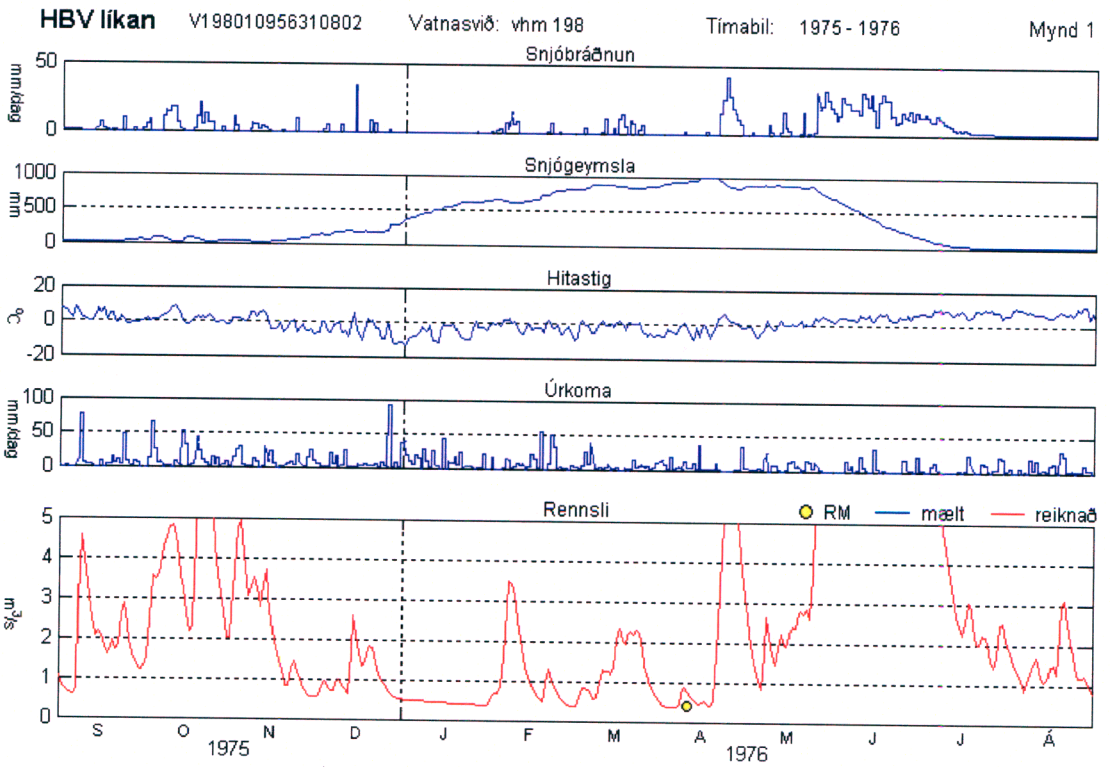
Mynd 4.1 Reiknað ársmeðalrennsli Húsár.

Mynd 4.2 sýnir langæislínurit fyrir rennsli Húsár.

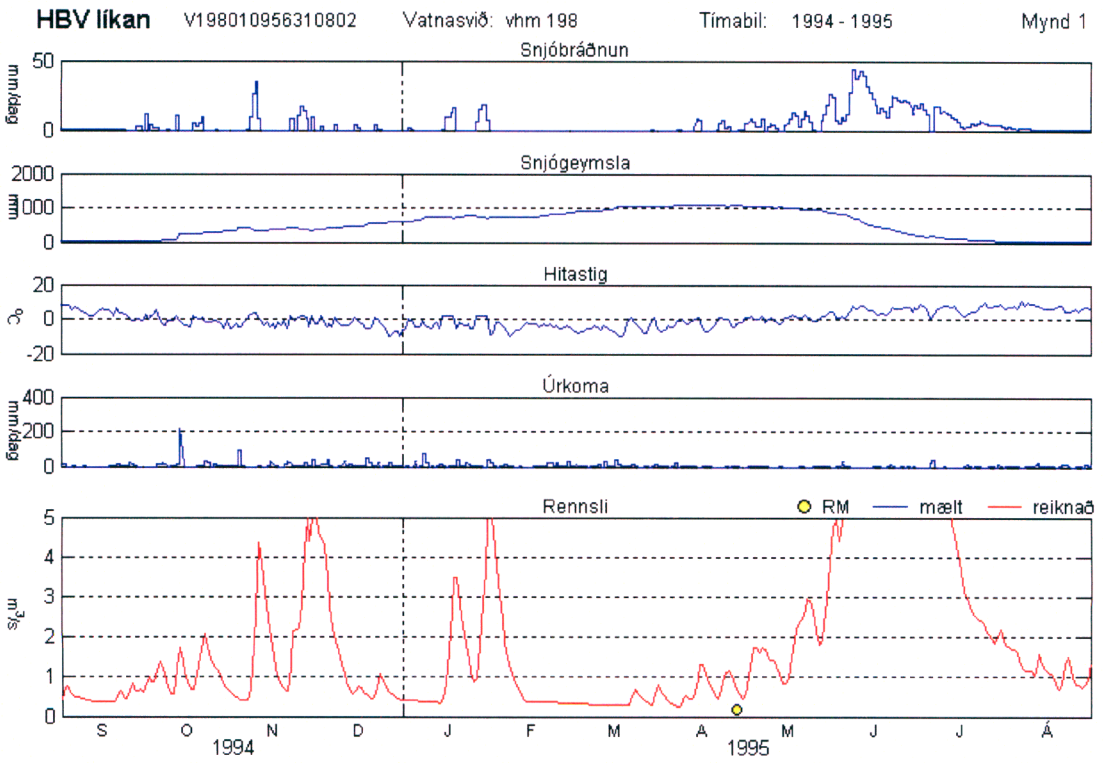


Mynd 4.2 Langægislínurit fyrir rennsli Húsár.

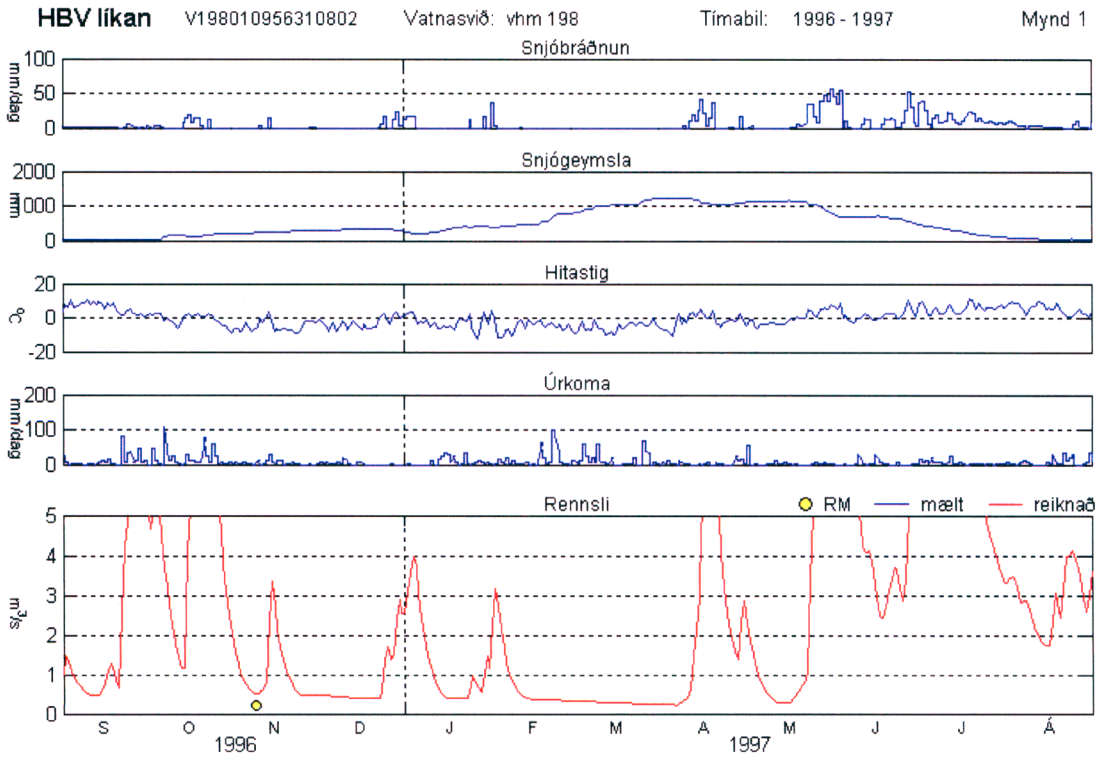
Myndir 4.3 til 4.7 sýna samanburð á mældu og reiknuðu rennsli Húsár.



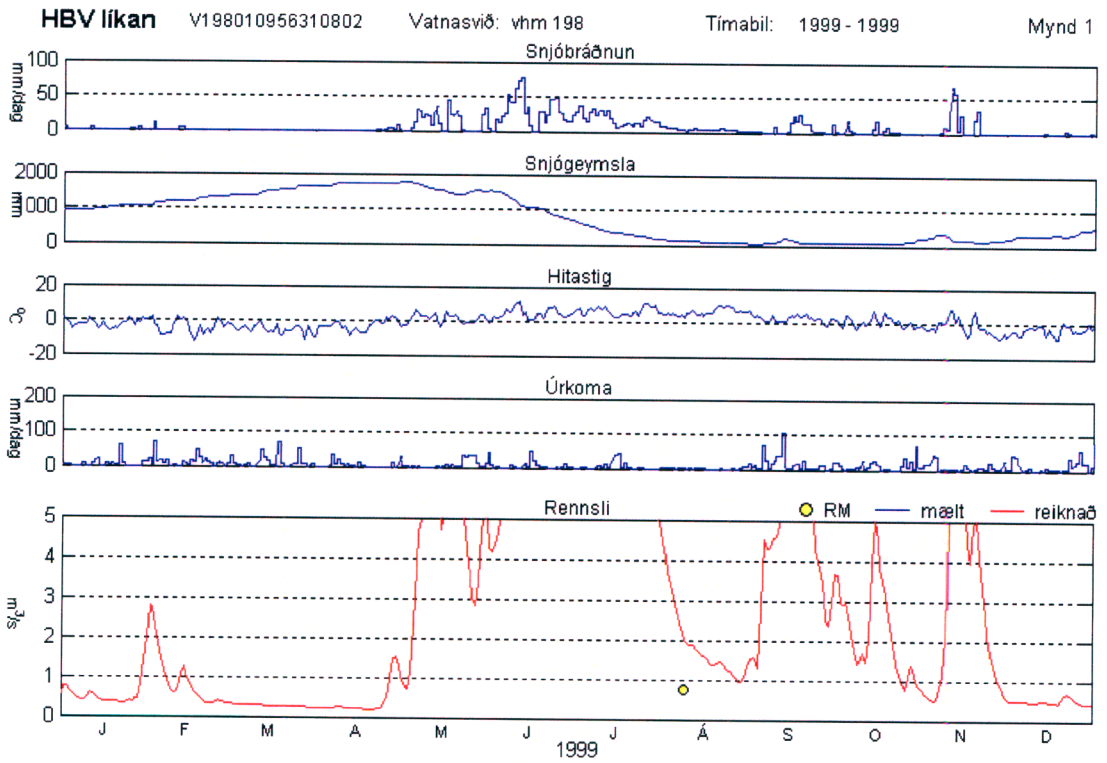
Mynd 4.3 Samanburður á mældu og reiknuðu rennsli Húsár 1.9.1975-31.8.1976.



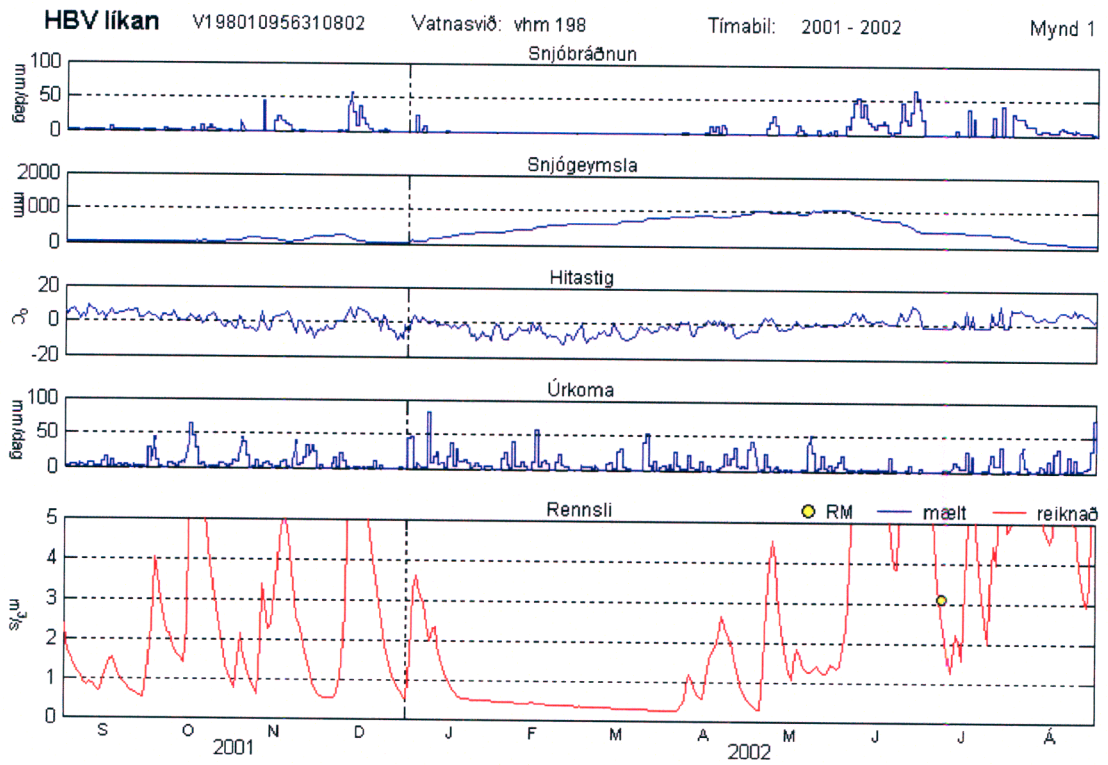
Mynd 4.4 Samanburður á mældu og reiknuðu rennsli Húsár 1.9.1994-31.8.1995.



Mynd 4.5 Samanburður á mældu og reiknuðu rennsli Húsár 1.9.1996-31.8.1997.



Mynd 4.6 Samanburður á mældu og reiknuðu rennsli Húsár 1.1.1999-31.12.1999.



Mynd 4.7 Samanburður á mældu og reiknuðu rennsli Húsár 1.9.2001-31.8.2002.

5 Afrennsli hlutvatnsviðs Þverár, Langadalsströnd

Líkan af Þverá sem gert var í desember 2001 (Stefanía G. Halldórsdóttir, 2001), var framlengt út vatnsárið 2002 og það svo aðlagað að hlutvatnasviði Þverár til að fá betri mynd af afrennslinu á hálendi. Rennslisröð var reiknuð fyrir vatnasvið Skúfnavatna. Röðin spannar tímabilið 1.9.1956 til 31.8.2002.

Tafla 5.1 sýnir afrennsli af vatnasviði Skúfnavatna. Meðalrennsli er meðaltal af meðalársrennsli.

Tafla 5.1. Reiknað afrennsli af vatnasviði Skúfnavatna.

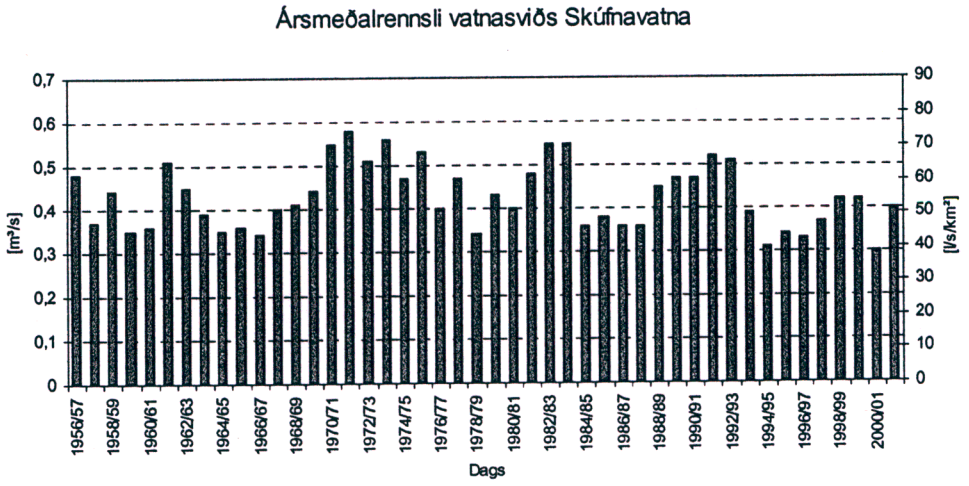
Vatnasvið	Km²	Hlutfall af vatnasviði Þverár	Meðalrennsli [m³/s]	Meðalafrennsli [l/s/km²]	Hlutfall af reiknuðu rennsli Þverár
Skúfnavötn	7,82	18%	0,43	55	20%

Tafla 5.2 sýnir rennslismælingar sem gerðar hafa verið á vatnasviði Skúfnavatna.

Tafla 5.2 Rennslismælingar á vatnasviði Skúfnavatna.

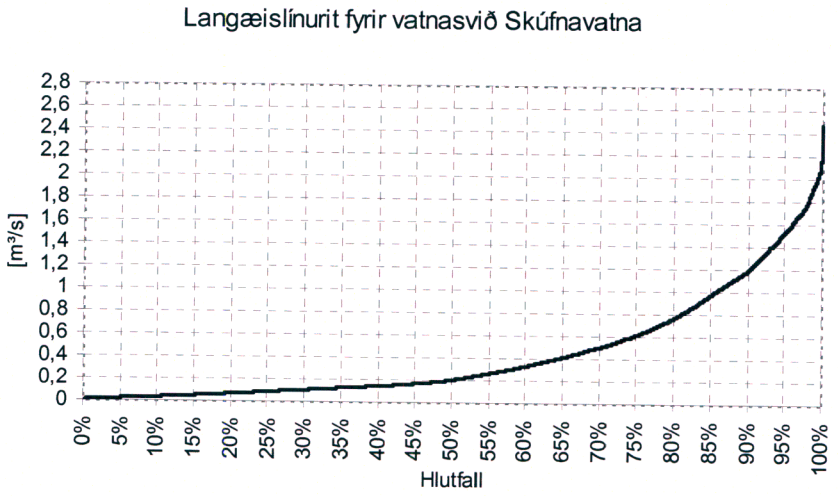
Dags	Rennsli [m³/s]
24.10.2001	1,21
17.4.2002	0,02

Mynd 5.1 sýnir reiknað ársmeðalrennsli fyrir tímabilið 1.9.1956 til 31.8.2002.



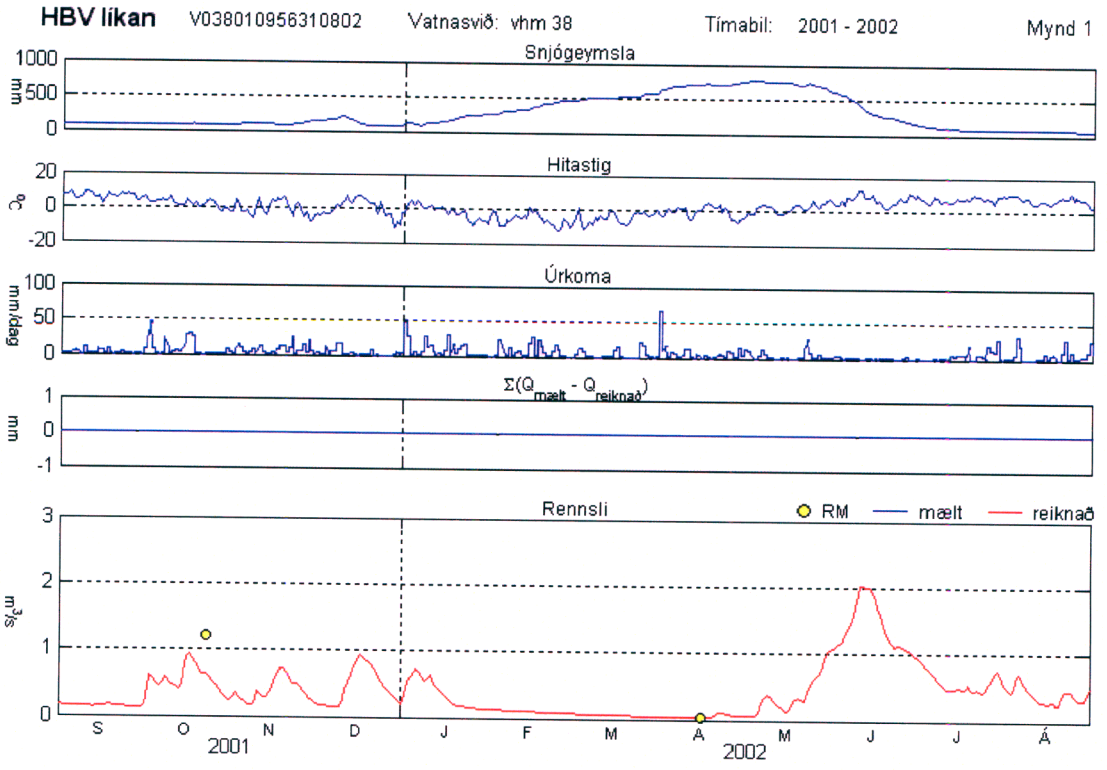
Mynd 5.1 Reiknað ársmeðalrennsli Skúfnavatna.

Mynd 5.2 sýnir langæislínurit fyrir rennsli Skúfnavatna.



Mynd 5.2 Langæislínurit fyrir rennsli Skúfnavatna.

Mynd 5.3 sýnir samanburð á mældu og reiknuðu rennsli vatnasviðs Skúfnavatna.



Mynd 5.3 Samanburður á mældu og reiknuðu rennsli Skúfnavatna 1.9.2001-31.8.2002.

6 Niðurstöður

Til þess að hægt sé að sannprófa líkön á hálendi þyrftu að vera fyrir hendi fleiri rennslismælingar í mismunandi árferði. Ein rennslismæling er ekki nóg til þess að sannreyna líkönin sem hér eru sett fram. Rennslismælingin var í flestum tilfellum lægri en reiknað rennsli og gefur það til kynna að í mikilli hæð sé lágrennslið minna en líkön gera ráð fyrir. Til þess að sannprófa þetta er nauðsynlegt að gera fleiri mælingar á afrennsli af hlutvatnasviðum á Hraunum vestur, og skoða svæðið með tilliti til hegðunar grunnrennslis, því alltaf er möguleiki á því að vatn á hálendi seytli niður og komi fram neðar á vatnasviðinu. Hér verður ekki farið í nánari greiningu á því hvað þarna er að gerast, en ljóst er að lágrennsli á hálendi er minna en líkön gera ráð fyrir í apríl 2002.

Fleiri rennslismælingar hafa verið gerðar á vatnasviði Húsár í Ófeigsfirði og má ráða af samanburði á þessum mælingum og reiknuðu rennsli að líkanið fari nokkuð nálægt raunverulegu rennsli. Vatnasvið Húsár liggur að vatnasviði Hvalár og má því ætla að þau séu um margt lík.

7 Heimildir

Orkustofnun, Vatnamælingar. Gögn úr gagnasafni Vatnamælinga.

Orkustofnun, Vatnamælingar. Upplýsingar úr landupplýsingakerfi.

Stefanía G. Halldórsdóttir, 2001. *Vatnafar á Ófeigsfjarðarheiði og Langadalsströnd. Rennslislíkön og hlutvatnasvið.* Orkustofnun, OS-2001/092.

Veðurstofa Íslands. Gagnasafn með sólarhringsgildum veðurþátta, afrit varðveitt á Vatnamælingum Orkustofnunar.

Viðauki I

Staðsetning rennslisraða

Staðarnúmer	Hlutvatnasvið	gagnaslóð
2453	Vatnalautavatn	/os/sgh/vmgogn/rennsli/20453
2478	Rjúkandi, nyrðri kvísl	/os/sgh/vmgogn/rennsli/20478
2481	Rjúkandi, syðri kvísl	/os/sgh/vmgogn/rennsli/20481
2479	Eyvindarfjarðarvatn	/os/sgh/vmgogn/rennsli/20479
2480	Ós efra vatns á vatnasviði Eyvindarfjarðarár	/os/sgh/vmgogn/rennsli/20480
2013	Húsá	/os/sgh/vmgogn/rennsli/20013
2477	Skúfnavötn á vatnasviði Þverár	/os/sgh/vmgogn/rennsli/20477

Viðauki II

Stuðlaskrár

Staðarnúmer	Hlutvatnasvið	bls.
2453	Vatnalautavatn	26
2478	Rjúkandi, nyrðri kvísl	28
2481	Rjúkandi, syðri kvísl	30
2479	Eyvindarfjarðarvatn	32
2480	Ós efra vatns á vatnasviði Eyvindarfjarðarár	34
2013	Húsá	36
2477	Skúfnavötn á vatnasviði Þverár	38

Stuðlaskrá Vatnalautavatns (skrá /os/sgh/vmgogn/rennsli/20453)

```
START  2V198
  2    0            4     PNO       Number of precipitation stations
  2    0  Galtarv.250     PID1      Identification for precip station 1
  2    0         20.      PHOH1     Altitude precip station 1
  2    0          .0     PWGT1     Weight precipitation station 1
  2    0  Æðey.260        PID2
  2    0         05.      PHOH2
  2    0          .0      PWGT2
  2    0  Gjögur.290      PID3
  2    0         05.      PHOH3
  2    0         .85       PWGT3
  2    0  Hraun á Sk.352  PID1      Identification for precip station 1
  2    0         03.      PHOH1     Altitude precip station 1
  2    0         .15      PWGT1     Weight precipitation station 1
  2    0           3      TNO       Number of temperature stations
  2    0  Galtarv.250     TID1      Identification for temp station 1
  2    0         20.      THOH1     Altitude temp station 1
  2    0          .0      TWGT1     Weight temp station 1
  2    0  Æðey.260        TID2
  2    0         05.      THOH2
  2    0          .0     TWGT2
  2    0  Gjögur.290      TID3
  2    0         05.      THOH3
  2    0         1.0      TWGT3
  2    0           1      QNO       Number of discharge stations
  2    0  vhm198          QID       Identification for discharge station
  2    0          1.0     QWGT      Scaling factor for discharge
  2    0        53.26     AREAL     Catchment area                    [km2]
  2    4        0.000     MAGDEL    Regulation reservoirs             [1]
  2    5      300.000     HYPSO ( 1,1), low point            [m]
  2    6      350.000     HYPSO ( 2,1)
  2    7      400.000     HYPSO ( 3,1)
  2    8      450.000     HYPSO ( 4,1)
  2    9      500.000     HYPSO ( 5,1)
  2   10      550.000     HYPSO ( 6,1)
  2   11      600.000     HYPSO ( 7,1)
  2   12      650.000     HYPSO ( 8,1)
  2   13      700.000     HYPSO ( 9,1)
  2   14      720.000     HYPSO (10,1)
  2   15      730.000     HYPSO (11,1), high point
  2   16        0.000     HYPSO ( 1,2), Part of total area below HYPSO (1,1) = 0
  2   17        0.176    HYPSO ( 2,2)
  2   18        0.336     HYPSO ( 3,2)
  2   19        0.569     HYPSO ( 4,2)
  2   20        0.773     HYPSO ( 5,2)
  2   21        0.973     HYPSO ( 6,2)
  2   22        0.998     HYPSO ( 7,2)
  2   23        1.000     HYPSO ( 8,2)
  2   24        1.000     HYPSO ( 9,2)
  2   25        1.000     HYPSO (10,2)
  2   26        1.000     HYPSO (11,2), Part of total area below HYPSO (11,1) = 1
  2   27        0.000     BREPRO( 1), Glacier area, part of total area, below HYPSO( 1,1) (=0.0)
  2   28        0.000
  2   29        0.000
  2   30        0.000
  2   31        0.000
  2   32        0.000
  2   33        0.000
  2   34        0.000
  2   35        0.000
  2   36        0.000
  2   37        0.000     BREPRO(11), Glacier area, part of total area, below HYPSO(11,1)
  2   39      270.0       NDAG      Day no for conversion of glacier snow to ice
  2   40        1.10      TX        Threshold temperature for snow/precip.          [C]
  2   41       -0.40      TS        Threshold temperature fo no melt                [C]
  2   42        7.80      CX        Melt index                              [mm/deg/day]
  2   43       0.050      CFR       Refreeze efficiency                             [1]
  2   44        0.08      LV        Max rel. water content in snow                  [1]
  2   45        1.50      PKORR     Precipitaion correction for rain                [1]
  2   46        1.80      SKORR     Additional precipitation corection for snow at gauge [1]
  2   47       365.0      GRADALT   Altitude for change in prec. grad.              [m]
  2   48        0.06      PGRAD1    Precipitation gradient above GRADALT            [1]
  2   49        0.02      CALB      Ageing factor for albedo                    [1/day]
  2   50        0.00      CRAD      Radiation melt component                        [1]
  2   51        1.00      CONV      Convection melt component                       [1]
  2   52        0.0       COND      Condensation melt component                     [1]
  2   60         1.20     CEVPL     lake evapotranspiration adjustment fact         [1]
  2   61         0.5      ERED      evapotranspiration red. during interception     [1]
  2   62        30.0      ICEDAY    Lake temperature time constant                  [d]
  2   63       -0.60      TTGRAD    Temperature gradient for days without precip [deg/100 m]
  2   64       -0.80      TVGRAD    Temperature gradient for days with precip    [deg/100 m]
  2   65        0.26      PGRAD     Precipitation altitude gradient              [1/100 m]
  2   66        1.50      CBRE      Melt increase on glacier ice                    [1]
  2   67        0.70      EP        EP( 1), Pot evapotranspiration, Jan    [mm/day] or [1]
  2   68        0.70      EP        EP( 2), Pot evapotranspiration, Feb    [mm/day] or [1]
  2   69        0.70      EP        EP( 3)
  2   70        1.00      EP        EP( 4)
  2   71        1.30      EP        EP( 5)
  2   72        1.40      EP        EP( 6)
  2   73        1.30      EP        EP( 7)
  2   74        1.10      EP        EP( 8)
  2   75        1.00      EP        EP( 9)
  2   76        0.90      EP        EP(10)
  2   77        0.70      EP        EP(11)
  2   78        0.70      EP        EP(12)), Pot evapotranspiration, Dec    [mm/day] or [1]
  2   79      150.00      FC        Maximum soil water content              [mm]
  2   80        0.70      FCDEL     Pot.evapotr when content = FC*FCDEL     [1]
  2   81        1.00      BETA      Non-linearity in soil water zone        [1]
  2   82       2.00      INFMAX    maximum infiltration capacity           [mm/day]
  2   83
```

```
2   84
2   85        0.20      KUZ2      Quick time constant upper zone        [1/day]
2   86       30.00      UZ1       Threshold quick runoff                [mm]
2   87        0.20      KUZ1      Slow time constant upper zone         [1/day]
2   88        1.70      PERC      Percolation to lower zone             [mm/day]
2   89        0.01      KLZ       Time constant lower zone              [1/day]
2   90        0.00      ROUT      (1), Routing constant (lake area, km2)
2   91        0.00      ROUT      (2), Routing constant (rating curve const)
2   92        0.00      ROUT      (3), Routing constant (rating curve zero)
2   93        0.00      ROUT      (4), Routing constant (rating curve exp)
2   94        0.00      ROUT      (5), Routing constant (drained area ratio)
2   95        0.00      DECAY     (1), Feedback constant
2   96        0.00      DECAY     (2), Feedback constant
2   97        0.00      DECAY     (3), Feedback constant
2   98        0.30      CE        Evapotranspiration constant           [mm/deg/day]
2   99        0.0       DRAW      "draw up" constant                    [mm/day]
2  100        66.2      LAT       Latitude                              [deg]
2  101       -0.40      TGRAD(1)  Temperature gradient Jan              [deg/100m]
2  102       -0.40      TGRAD(2)  Temperature gradient Feb              [deg/100m]
2  103       -0.50      TGRAD(3)  Temperature gradient Mar              [deg/100m]
2  104       -0.55      TGRAD(4)  Temperature gradient Apr              [deg/100m]
2  105       -0.55      TGRAD(5)  Temperature gradient May              [deg/100m]
2  106       -0.50      TGRAD(6)  Temperature gradient Jun              [deg/100m]
2  107       -0.50      TGRAD(7)  Temperature gradient Jul              [deg/100m]
2  108       -0.50      TGRAD(8)  Temperature gradient Aug              [deg/100m]
2  109       -0.50      TGRAD(9)  Temperature gradient Sep              [deg/100m]
2  110       -0.50      TGRAD(10) Temperature gradient Oct              [deg/100m]
2  111       -0.50      TGRAD(11) Temperature gradient Nov              [deg/100m]
2  112       -0.47      TGRAD(12) Temperature gradient Dec              [deg/100m]
2  113        40.0      SPDIST    Uniformly distributed snow acc        [mm]
2  114       120.0      SMINI     Inital soil moisture content          [mm]
2  115          0.0     UZINI     Initial upper zone content            [mm]
2  116        30.0      LZINI     Initial lower zone content            [mm]
2  121           4      VEGT(1,1) Vegetation type 1, zone 1
2  122           0      VEGT(2,1) Vegetation type 2, zone 1
2  123         0.0      VEGA(1)   Vegetation 2 area, zone 1             [1]
2  124         0.0      LAKE(1)   Lake area,         zone 1             [1]
2  125           4      VEGT(1,2) Vegetation type 1, zone 2
2  126           0      VEGT(2,2) Vegetation type 2, zone 2
2  127         0.0      VEGA(2)   Vegetation 2 area, zone 2             [1]
2  128         0.0      LAKE(2)   Lake area,         zone 2             [1]
2  129           4      VEGT(1,3) Vegetation type 1, zone 3
2  130           0      VEGT(2,3) Vegetation type 2, zone 3
2  131         0.0      VEGA(3)   Vegetation 2 area, zone 3             [1]
2  132         0.0      LAKE(3)   Lake area,         zone 3             [1]
2  133           4      VEGT(1,4) Vegetation type 1, zone 4
2  134           0      VEGT(2,4) Vegetation type 2, zone 4
2  135         0.0      VEGA(4)   Vegetation 2 area, zone 4             [1]
2  136         0.0      LAKE(4)   Lake area,         zone 4             [1]
2  137           4      VEGT(1,5) Vegetation type 1, zone 5
2  138           0      VEGT(2,5) Vegetation type 2, zone 5
2  139         0.0      VEGA(5)   Vegetation 2 area, zone 5             [1]
2  140         0.0      LAKE(5)   Lake area,         zone 5             [1]
2  141           4      VEGT(1,6) Vegetation type 1, zone 6
2  142           0      VEGT(2,6) Vegetation type 2, zone 6
2  143         0.0      VEGA(6)   Vegetation 2 area, zone 6             [1]
2  144         0.0      LAKE(6)   Lake area,         zone 6             [1]
2  145           4      VEGT(1,7) Vegetation type 1, zone 7
2  146           0      VEGT(2,7) Vegetation type 2, zone 7
2  147         0.0      VEGA(7)   Vegetation 2 area, zone 7             [1]
2  148         0.0      LAKE(7)   Lake area,         zone 7             [1]
2  149           4      VEGT(1,8) Vegetation type 1, zone 8
2  150           0      VEGT(2,8) Vegetation type 2, zone 8
2  151         0.0      VEGA(8)   Vegetation 2 area, zone 8             [1]
2  152         0.0      LAKE(8)   Lake area,         zone 8             [1]
2  153           4      VEGT(1,9) Vegetation type 1, zone 9
2  154           0      VEGT(2,9) Vegetation type 2, zone 9
2  155         0.0      VEGA(9)   Vegetation 2 area, zone 9             [1]
2  156         0.0      LAKE(9)   Lake area,         zone 9             [1]
2  157           4      VEGT(1,10) Vegetation type 1, zone 10
2  158           0      VEGT(2,10) Vegetation type 2, zone 10
2  159         0.0      VEGA(10)   Vegetation 2 area, zone 10           [1]
2  160         0.0      LAKE(10)   Lake area,         zone 10           [1]
FINIS
```

Stuðlaskrá Rjúkanda, nyrðri kvísl (skrá /os/sgh/vmgogn/rennsli/20478)

```
START  2V198
  2    0            4     PNO       Number of precipitation stations
  2    0  Galtarv.250     PID1      Identification for precip station 1
  2    0         20.      PHOH1     Altitude precip station 1
  2    0          .0     PWGT1     Weight precipitation station 1
  2    0  Æðey.260        PID2
  2    0         05.      PHOH2
  2    0          .0      PWGT2
  2    0  Gjögur.290      PID3
  2    0         05.      PHOH3
  2    0         .85       PWGT3
  2    0  Hraun á Sk.352 PID1      Identification for precip station 1
  2    0         03.      PHOH1     Altitude precip station 1
  2    0         .15      PWGT1     Weight precipitation station 1
  2    0            3     TNO       Number of temperature stations
  2    0  Galtarv.250     TID1      Identification for temp station 1
  2    0         20.      THOH1     Altitude temp station 1
  2    0          .0      TWGT1     Weight temp station 1
  2    0  Æðey.260        TID2
  2    0         05.      THOH2
  2    0          .0     TWGT2
  2    0  Gjögur.290      TID3
  2    0         05.      THOH3
  2    0         1.0      TWGT3
  2    0           1      QNO       Number of discharge stations
  2    0  vhm198          QID       Identification for discharge station
  2    0          1.0     QWGT      Scaling factor for discharge
  2    0        29.62     AREAL     Catchment area                        [km2]
  2    4        0.000     MAGDEL    Regulation reservoirs                 [1]
  2    5       50.000     HYPSO ( 1,1), low point              [m]
  2    6      100.000     HYPSO ( 2,1)
  2    7      200.000     HYPSO ( 3,1)
  2    8      300.000     HYPSO ( 4,1)
  2    9      400.000     HYPSO ( 5,1)
  2   10      500.000     HYPSO ( 6,1)
  2   11      600.000     HYPSO ( 7,1)
  2   12      700.000     HYPSO ( 8,1)
  2   13      750.000     HYPSO ( 9,1)
  2   14      800.000     HYPSO (10,1)
  2   15      850.000     HYPSO (11,1), high point
  2   16        0.000     HYPSO ( 1,2), Part of total area below HYPSO (1,1) = 0
  2   17        0.000    HYPSO ( 2,2)
  2   18        0.000     HYPSO ( 3,2)
  2   19        0.000     HYPSO ( 4,2)
  2   20        0.079     HYPSO ( 5,2)
  2   21        0.590     HYPSO ( 6,2)
  2   22        1.000     HYPSO ( 7,2)
  2   23        1.000     HYPSO ( 8,2)
  2   24        1.000     HYPSO ( 9,2)
  2   25        1.000     HYPSO (10,2)
  2   26        1.000     HYPSO (11,2), Part of total area below HYPSO (11,1) = 1
  2   27        0.000     BREPRO( 1), Glacier area, part of total area, below HYPSO( 1,1) (=0.0)
  2   28        0.000
  2   29        0.000
  2   30        0.000
  2   31        0.000
  2   32        0.000
  2   33        0.000
  2   34        0.000
  2   35        0.000
  2   36        0.000
  2   37        0.000     BREPRO(11), Glacier area, part of total area, below HYPSO(11,1)
  2   39      270.0       NDAG      Day no for conversion of glacier snow to ice
  2   40        1.10      TX        Threshold temperature for snow/precip.          [C]
  2   41       -0.40      TS        Threshold temperature fo no melt              [C]
  2   42        7.80      CX        Melt index                              [mm/deg/day]
  2   43       0.050      CFR       Refreeze efficiency                           [1]
  2   44       0.08        LV        Max rel. water content in snow                [1]
  2   45        1.50      PKORR     Precipitaion correction for rain              [1]
  2   46        1.80      SKORR     Additional precipitation corection for snow at gauge [1]
  2   47        365.0     GRADALT   Altitude for change in prec. grad.            [m]
  2   48        0.06      PGRAD1    Precipitation gradient above GRADALT          [1]
  2   49        0.02      CALB      Ageing factor for albedo                  [1/day]
  2   50        0.00      CRAD      Radiation melt component                      [1]
  2   51        1.00      CONV      Convection melt component                     [1]
  2   52        0.0       COND      Condensation melt component                   [1]
  2   60         1.20     CEVPL     lake evapotranspiration adjustment fact       [1]
  2   61         0.5      ERED      evapotranspiration red. during interception   [1]
  2   62        30.0      ICEDAY    Lake temperature time constant                [d]
  2   63       -0.60      TTGRAD    Temperature gradient for days without precip [deg/100 m]
  2   64       -0.80      TVGRAD    Temperature gradient for days with precip    [deg/100 m]
  2   65        0.26      PGRAD     Precipitation altitude gradient              [1/100 m]
  2   66        1.50      CBRE      Melt increase on glacier ice                  [1]
  2   67        0.70      EP        EP( 1), Pot evapotranspiration, Jan    [mm/day] or [1]
  2   68        0.70      EP        EP( 2), Pot evapotranspiration, Feb    [mm/day] or [1]
  2   69        0.70      EP        EP( 3)
  2   70        1.00      EP        EP( 4)
  2   71        1.30      EP        EP( 5)
  2   72        1.40      EP        EP( 6)
  2   73        1.30      EP        EP( 7)
  2   74        1.10      EP        EP( 8)
  2   75        1.00      EP        EP( 9)
  2   76        0.90      EP        EP(10)
  2   77        0.70      EP        EP(11)
  2   78        0.70      EP        EP(12)), Pot evapotranspiration, Dec    [mm/day] or [1]
  2   79      150.00      FC        Maximum soil water content            [mm]
  2   80        0.70      FCDEL     Pot.evapotr when content = FC*FCDEL   [1]
  2   81        1.00      BETA      Non-linearity in soil water zone      [1]
  2   82       2.00      INFMAX    maximum infiltration capacity         [mm/day]
  2   83
```

```
 2   84
 2   85        0.20      KUZ2      Quick time constant upper zone       [1/day]
 2   86       30.00      UZ1       Threshold quick runoff               [mm]
 2   87        0.20      KUZ1      Slow time constant upper zone        [1/day]
 2   88        1.70      PERC      Percolation to lower zone            [mm/day]
 2   89        0.01      KLZ       Time constant lower zone             [1/day]
 2   90        0.00      ROUT      (1), Routing constant (lake area, km2)
 2   91        0.00      ROUT      (2), Routing constant (rating curve const)
 2   92        0.00      ROUT      (3), Routing constant (rating curve zero)
 2   93        0.00      ROUT      (4), Routing constant (rating curve exp)
 2   94        0.00      ROUT      (5), Routing constant (drained area ratio)
 2   95        0.00      DECAY     (1), Feedback constant
 2   96        0.00      DECAY     (2), Feedback constant
 2   97        0.00      DECAY     (3), Feedback constant
 2   98        0.30      CE        Evapotranspiration constant          [mm/deg/day]
 2   99        0.0       DRAW      "draw up" constant                   [mm/day]
 2  100        66.2      LAT       Latitude                             [deg]
 2  101       -0.40      TGRAD(1)  Temperature gradient Jan             [deg/100m]
 2  102       -0.40      TGRAD(2)  Temperature gradient Feb             [deg/100m]
 2  103       -0.50      TGRAD(3)  Temperature gradient Mar             [deg/100m]
 2  104       -0.55      TGRAD(4)  Temperature gradient Apr             [deg/100m]
 2  105       -0.55      TGRAD(5)  Temperature gradient May             [deg/100m]
 2  106       -0.50      TGRAD(6)  Temperature gradient Jun             [deg/100m]
 2  107       -0.50      TGRAD(7)  Temperature gradient Jul             [deg/100m]
 2  108       -0.50      TGRAD(8)  Temperature gradient Aug             [deg/100m]
 2  109       -0.50      TGRAD(9)  Temperature gradient Sep             [deg/100m]
 2  110       -0.50      TGRAD(10) Temperature gradient Oct             [deg/100m]
 2  111       -0.50      TGRAD(11) Temperature gradient Nov             [deg/100m]
 2  112       -0.47      TGRAD(12) Temperature gradient Dec             [deg/100m]
 2  113        40.0      SPDIST    Uniformly distributed snow acc       [mm]
 2  114       120.0      SMINI     Inital soil moisture content         [mm]
 2  115          0.0     UZINI     Initial upper zone content           [mm]
 2  116        30.0      LZINI     Initial lower zone content           [mm]
 2  121           4      VEGT(1,1) Vegetation type 1, zone 1
 2  122           0      VEGT(2,1) Vegetation type 2, zone 1
 2  123         0.0      VEGA(1)   Vegetation 2 area, zone 1           [1]
 2  124         0.0      LAKE(1)   Lake area,         zone 1           [1]
 2  125           4      VEGT(1,2) Vegetation type 1, zone 2
 2  126           0      VEGT(2,2) Vegetation type 2, zone 2
 2  127         0.0      VEGA(2)   Vegetation 2 area, zone 2           [1]
 2  128         0.0      LAKE(2)   Lake area,         zone 2           [1]
 2  129           4      VEGT(1,3) Vegetation type 1, zone 3
 2  130           0      VEGT(2,3) Vegetation type 2, zone 3
 2  131         0.0      VEGA(3)   Vegetation 2 area, zone 3           [1]
 2  132         0.0      LAKE(3)   Lake area,         zone 3           [1]
 2  133           4      VEGT(1,4) Vegetation type 1, zone 4
 2  134           0      VEGT(2,4) Vegetation type 2, zone 4
 2  135         0.0      VEGA(4)   Vegetation 2 area, zone 4           [1]
 2  136         0.0      LAKE(4)   Lake area,         zone 4           [1]
 2  137           4      VEGT(1,5) Vegetation type 1, zone 5
 2  138           0      VEGT(2,5) Vegetation type 2, zone 5
 2  139         0.0      VEGA(5)   Vegetation 2 area, zone 5           [1]
 2  140         0.0      LAKE(5)   Lake area,         zone 5           [1]
 2  141           4      VEGT(1,6) Vegetation type 1, zone 6
 2  142           0      VEGT(2,6) Vegetation type 2, zone 6
 2  143         0.0      VEGA(6)   Vegetation 2 area, zone 6           [1]
 2  144         0.0      LAKE(6)   Lake area,         zone 6           [1]
 2  145           4      VEGT(1,7) Vegetation type 1, zone 7
 2  146           0      VEGT(2,7) Vegetation type 2, zone 7
 2  147         0.0      VEGA(7)   Vegetation 2 area, zone 7           [1]
 2  148         0.0      LAKE(7)   Lake area,         zone 7           [1]
 2  149           4      VEGT(1,8) Vegetation type 1, zone 8
 2  150           0      VEGT(2,8) Vegetation type 2, zone 8
 2  151         0.0      VEGA(8)   Vegetation 2 area, zone 8           [1]
 2  152         0.0      LAKE(8)   Lake area,         zone 8           [1]
 2  153           4      VEGT(1,9) Vegetation type 1, zone 9
 2  154           0      VEGT(2,9) Vegetation type 2, zone 9
 2  155         0.0      VEGA(9)   Vegetation 2 area, zone 9           [1]
 2  156         0.0      LAKE(9)   Lake area,         zone 9           [1]
 2  157           4      VEGT(1,10) Vegetation type 1, zone 10
 2  158           0      VEGT(2,10) Vegetation type 2, zone 10
 2  159         0.0      VEGA(10)   Vegetation 2 area, zone 10         [1]
 2  160         0.0      LAKE(10)   Lake area,         zone 10         [1]
FINIS
```

Stuðlaskrá Rjúkanda, syðri kvísl (skrá /os/sgh/vmgogn/rennsli/20481)

```
START  2V198
  2    0            4     PNO       Number of precipitation stations
  2    0  Galtarv.250     PID1      Identification for precip station 1
  2    0         20.      PHOH1     Altitude precip station 1
  2    0          .0     PWGT1     Weight precipitation station 1
  2    0  Æðey.260        PID2
  2    0         05.      PHOH2
  2    0          .0      PWGT2
  2    0  Gjögur.290      PID3
  2    0         05.      PHOH3
  2    0         .85       PWGT3
  2    0  Hraun á Sk.352 PID1      Identification for precip station 1
  2    0         03.      PHOH1     Altitude precip station 1
  2    0         .15      PWGT1     Weight precipitation station 1
  2    0           3      TNO       Number of temperature stations
  2    0  Galtarv.250     TID1      Identification for temp station 1
  2    0         20.      THOH1     Altitude temp station 1
  2    0          .0      TWGT1     Weight temp station 1
  2    0  Æðey.260        TID2
  2    0         05.      THOH2
  2    0          .0     TWGT2
  2    0  Gjögur.290      TID3
  2    0         05.      THOH3
  2    0         1.0      TWGT3
  2    0           1      QNO       Number of discharge stations
  2    0  vhm198          QID       Identification for discharge station
  2    0          1.0     QWGT      Scaling factor for discharge
  2    0         34.42     AREAL     Catchment area                    [km2]
  2    4        0.000     MAGDEL    Regulation reservoirs            [1]
  2    5       50.000     HYPSO ( 1,1), low point            [m]
  2    6      100.000     HYPSO ( 2,1)
  2    7      200.000     HYPSO ( 3,1)
  2    8      300.000     HYPSO ( 4,1)
  2    9      400.000     HYPSO ( 5,1)
  2   10      500.000     HYPSO ( 6,1)
  2   11      600.000     HYPSO ( 7,1)
  2   12      700.000     HYPSO ( 8,1)
  2   13      750.000     HYPSO ( 9,1)
  2   14      800.000     HYPSO (10,1)
  2   15      850.000     HYPSO (11,1), high point
  2   16        0.000     HYPSO ( 1,2), Part of total area below HYPSO (1,1) = 0
  2   17        0.000    HYPSO ( 2,2)
  2   18        0.000     HYPSO ( 3,2)
  2   19        0.000     HYPSO ( 4,2)
  2   20        0.090     HYPSO ( 5,2)
  2   21        0.639     HYPSO ( 6,2)
  2   22        1.000     HYPSO ( 7,2)
  2   23        1.000     HYPSO ( 8,2)
  2   24        1.000     HYPSO ( 9,2)
  2   25        1.000     HYPSO (10,2)
  2   26        1.000     HYPSO (11,2), Part of total area below HYPSO (11,1) = 1
  2   27        0.000     BREPRO( 1), Glacier area, part of total area, below HYPSO( 1,1) (=0.0)
  2   28        0.000
  2   29        0.000
  2   30        0.000
  2   31        0.000
  2   32        0.000
  2   33        0.000
  2   34        0.000
  2   35        0.000
  2   36        0.000
  2   37        0.000     BREPRO(11), Glacier area, part of total area, below HYPSO(11,1)
  2   39      270.0       NDAG      Day no for conversion of glacier snow to ice
  2   40        1.10      TX        Threshold temperature for snow/precip.          [C]
  2   41       -0.40      TS        Threshold temperature fo no melt              [C]
  2   42        7.80      CX        Melt index                              [mm/deg/day]
  2   43       0.050      CFR       Refreeze efficiency                           [1]
  2   44       0.08        LV        Max rel. water content in snow                [1]
  2   45        1.50      PKORR     Precipitaion correction for rain              [1]
  2   46        1.80      SKORR     Additional precipitation corection for snow at gauge [1]
  2   47        365.0     GRADALT   Altitude for change in prec. grad.            [m]
  2   48        0.06      PGRAD1    Precipitation gradient above GRADALT          [1]
  2   49        0.02      CALB      Ageing factor for albedo                 [1/day]
  2   50        0.00      CRAD      Radiation melt component                      [1]
  2   51        1.00      CONV      Convection melt component                     [1]
  2   52        0.0       COND      Condensation melt component                   [1]
  2   60         1.20     CEVPL     lake evapotranspiration adjustment fact       [1]
  2   61         0.5      ERED      evapotranspiration red. during interception   [1]
  2   62        30.0      ICEDAY    Lake temperature time constant                [d]
  2   63       -0.60      TTGRAD    Temperature gradient for days without precip [deg/100 m]
  2   64       -0.80      TVGRAD    Temperature gradient for days with precip    [deg/100 m]
  2   65        0.26      PGRAD     Precipitation altitude gradient              [1/100 m]
  2   66        1.50      CBRE      Melt increase on glacier ice                  [1]
  2   67        0.70      EP        EP( 1), Pot evapotranspiration, Jan    [mm/day] or [1]
  2   68        0.70      EP        EP( 2), Pot evapotranspiration, Feb    [mm/day] or [1]
  2   69        0.70      EP        EP( 3)
  2   70        1.00      EP        EP( 4)
  2   71        1.30      EP        EP( 5)
  2   72        1.40      EP        EP( 6)
  2   73        1.30      EP        EP( 7)
  2   74        1.10      EP        EP( 8)
  2   75        1.00      EP        EP( 9)
  2   76        0.90      EP        EP(10)
  2   77        0.70      EP        EP(11)
  2   78        0.70      EP        EP(12)), Pot evapotranspiration, Dec    [mm/day] or [1]
  2   79      150.00      FC        Maximum soil water content            [mm]
  2   80        0.70      FCDEL     Pot.evapotr when content = FC*FCDEL   [1]
  2   81        1.00      BETA      Non-linearity in soil water zone      [1]
  2   82       2.00      INFMAX    maximum infiltration capacity         [mm/day]
  2   83
```

```
 2   84
 2   85        0.20      KUZ2      Quick time constant upper zone       [1/day]
 2   86       30.00      UZ1       Threshold quick runoff               [mm]
 2   87        0.20      KUZ1      Slow time constant upper zone        [1/day]
 2   88        1.70      PERC      Percolation to lower zone            [mm/day]
 2   89        0.01      KLZ       Time constant lower zone             [1/day]
 2   90        0.00      ROUT      (1), Routing constant (lake area, km2)
 2   91        0.00      ROUT      (2), Routing constant (rating curve const)
 2   92        0.00      ROUT      (3), Routing constant (rating curve zero)
 2   93        0.00      ROUT      (4), Routing constant (rating curve exp)
 2   94        0.00      ROUT      (5), Routing constant (drained area ratio)
 2   95        0.00      DECAY     (1), Feedback constant
 2   96        0.00      DECAY     (2), Feedback constant
 2   97        0.00      DECAY     (3), Feedback constant
 2   98        0.30      CE        Evapotranspiration constant          [mm/deg/day]
 2   99        0.0       DRAW      "draw up" constant                   [mm/day]
 2  100        66.2      LAT       Latitude                             [deg]
 2  101       -0.40      TGRAD(1)  Temperature gradient Jan             [deg/100m]
 2  102       -0.40      TGRAD(2)  Temperature gradient Feb             [deg/100m]
 2  103       -0.50      TGRAD(3)  Temperature gradient Mar             [deg/100m]
 2  104       -0.55      TGRAD(4)  Temperature gradient Apr             [deg/100m]
 2  105       -0.55      TGRAD(5)  Temperature gradient May             [deg/100m]
 2  106       -0.50      TGRAD(6)  Temperature gradient Jun             [deg/100m]
 2  107       -0.50      TGRAD(7)  Temperature gradient Jul             [deg/100m]
 2  108       -0.50      TGRAD(8)  Temperature gradient Aug             [deg/100m]
 2  109       -0.50      TGRAD(9)  Temperature gradient Sep             [deg/100m]
 2  110       -0.50      TGRAD(10) Temperature gradient Oct             [deg/100m]
 2  111       -0.50      TGRAD(11) Temperature gradient Nov             [deg/100m]
 2  112       -0.47      TGRAD(12) Temperature gradient Dec             [deg/100m]
 2  113        40.0      SPDIST    Uniformly distributed snow acc       [mm]
 2  114       120.0      SMINI     Inital soil moisture content         [mm]
 2  115          0.0     UZINI     Initial upper zone content           [mm]
 2  116        30.0      LZINI     Initial lower zone content           [mm]
 2  121           4      VEGT(1,1) Vegetation type 1, zone 1
 2  122           0      VEGT(2,1) Vegetation type 2, zone 1
 2  123         0.0      VEGA(1)   Vegetation 2 area, zone 1           [1]
 2  124         0.0      LAKE(1)   Lake area,         zone 1           [1]
 2  125           4      VEGT(1,2) Vegetation type 1, zone 2
 2  126           0      VEGT(2,2) Vegetation type 2, zone 2
 2  127         0.0      VEGA(2)   Vegetation 2 area, zone 2           [1]
 2  128         0.0      LAKE(2)   Lake area,         zone 2           [1]
 2  129           4      VEGT(1,3) Vegetation type 1, zone 3
 2  130           0      VEGT(2,3) Vegetation type 2, zone 3
 2  131         0.0      VEGA(3)   Vegetation 2 area, zone 3           [1]
 2  132         0.0      LAKE(3)   Lake area,         zone 3           [1]
 2  133           4      VEGT(1,4) Vegetation type 1, zone 4
 2  134           0      VEGT(2,4) Vegetation type 2, zone 4
 2  135         0.0      VEGA(4)   Vegetation 2 area, zone 4           [1]
 2  136         0.0      LAKE(4)   Lake area,         zone 4           [1]
 2  137           4      VEGT(1,5) Vegetation type 1, zone 5
 2  138           0      VEGT(2,5) Vegetation type 2, zone 5
 2  139         0.0      VEGA(5)   Vegetation 2 area, zone 5           [1]
 2  140         0.0      LAKE(5)   Lake area,         zone 5           [1]
 2  141           4      VEGT(1,6) Vegetation type 1, zone 6
 2  142           0      VEGT(2,6) Vegetation type 2, zone 6
 2  143         0.0      VEGA(6)   Vegetation 2 area, zone 6           [1]
 2  144         0.0      LAKE(6)   Lake area,         zone 6           [1]
 2  145           4      VEGT(1,7) Vegetation type 1, zone 7
 2  146           0      VEGT(2,7) Vegetation type 2, zone 7
 2  147         0.0      VEGA(7)   Vegetation 2 area, zone 7           [1]
 2  148         0.0      LAKE(7)   Lake area,         zone 7           [1]
 2  149           4      VEGT(1,8) Vegetation type 1, zone 8
 2  150           0      VEGT(2,8) Vegetation type 2, zone 8
 2  151         0.0      VEGA(8)   Vegetation 2 area, zone 8           [1]
 2  152         0.0      LAKE(8)   Lake area,         zone 8           [1]
 2  153           4      VEGT(1,9) Vegetation type 1, zone 9
 2  154           0      VEGT(2,9) Vegetation type 2, zone 9
 2  155         0.0      VEGA(9)   Vegetation 2 area, zone 9           [1]
 2  156         0.0      LAKE(9)   Lake area,         zone 9           [1]
 2  157           4      VEGT(1,10) Vegetation type 1, zone 10
 2  158           0      VEGT(2,10) Vegetation type 2, zone 10
 2  159         0.0      VEGA(10)   Vegetation 2 area, zone 10         [1]
 2  160         0.0      LAKE(10)   Lake area,         zone 10         [1]
FINIS
```

Stuðlaskrá Eyvindarfjarðarvatns (skrá /os/sgh/vmgogn/rennsli/20479)

```
START  2V198
  2    0            4     PNO       Number of precipitation stations
  2    0  Galtarv.250     PID1      Identification for precip station 1
  2    0         20.      PHOH1     Altitude precip station 1
  2    0         .0      PWGT1     Weight precipitation station 1
  2    0  Æðey.260        PID2
  2    0         05.      PHOH2
  2    0         .0       PWGT2
  2    0  Gjögur.290      PID3
  2    0         05.      PHOH3
  2    0         .85       PWGT3
  2    0  Hraun á Sk.352  PID1      Identification for precip station 1
  2    0         03.      PHOH1     Altitude precip station 1
  2    0         .15      PWGT1     Weight precipitation station 1
  2    0            3     TNO       Number of temperature stations
  2    0  Galtarv.250     TID1      Identification for temp station 1
  2    0         20.      THOH1     Altitude temp station 1
  2    0         .0       TWGT1     Weight temp station 1
  2    0  Æðey.260        TID2
  2    0         05.      THOH2
  2    0         .0      TWGT2
  2    0  Gjögur.290      TID3
  2    0         05.      THOH3
  2    0         1.0      TWGT3
  2    0           1      QNO       Number of discharge stations
  2    0  vhm198          QID       Identification for discharge station
  2    0          1.0     QWGT      Scaling factor for discharge
  2    0         47.12     AREAL     Catchment area                    [km2]
  2    4        0.000     MAGDEL    Regulation reservoirs            [1]
  2    5       25.000     HYPSO ( 1,1), low point            [m]
  2    6       50.000     HYPSO ( 2,1)
  2    7      100.000     HYPSO ( 3,1)
  2    8      200.000     HYPSO ( 4,1)
  2    9      300.000     HYPSO ( 5,1)
  2   10      400.000     HYPSO ( 6,1)
  2   11      500.000     HYPSO ( 7,1)
  2   12      600.000     HYPSO ( 8,1)
  2   13      700.000     HYPSO ( 9,1)
  2   14      800.000     HYPSO (10,1)
  2   15      900.000     HYPSO (11,1), high point
  2   16        0.000     HYPSO ( 1,2), Part of total area below HYPSO (1,1) = 0
  2   17        0.000     HYPSO ( 2,2)
  2   18        0.000     HYPSO ( 3,2)
  2   19        0.000     HYPSO ( 4,2)
  2   20        0.023     HYPSO ( 5,2)
  2   21        0.238     HYPSO ( 6,2)
  2   22        0.588     HYPSO ( 7,2)
  2   23        0.921     HYPSO ( 8,2)
  2   24        0.988     HYPSO ( 9,2)
  2   25        0.999     HYPSO (10,2)
  2   26        1.000     HYPSO (11,2), Part of total area below HYPSO (11,1) = 1
  2   27        0.000     BREPRO( 1), Glacier area, part of total area, below HYPSO( 1,1) (=0.0)
  2   28        0.000
  2   29        0.000
  2   30        0.000
  2   31        0.000
  2   32        0.000
  2   33        0.000
  2   34        0.000
  2   35        0.000
  2   36        0.000
  2   37        0.000     BREPRO(11), Glacier area, part of total area, below HYPSO(11,1)
  2   39      270.0       NDAG      Day no for conversion of glacier snow to ice
  2   40        1.10      TX        Threshold temperature for snow/precip.          [C]
  2   41       -0.40      TS        Threshold temperature fo no melt              [C]
  2   42        7.80      CX        Melt index                              [mm/deg/day]
  2   43       0.050      CFR       Refreeze efficiency                           [1]
  2   44       0.08        LV        Max rel. water content in snow                [1]
  2   45        1.50      PKORR     Precipitaion correction for rain              [1]
  2   46        1.80      SKORR     Additional precipitation corection for snow at gauge [1]
  2   47       365.0      GRADALT   Altitude for change in prec. grad.            [m]
  2   48        0.06      PGRAD1    Precipitation gradient above GRADALT          [1]
  2   49        0.02      CALB      Ageing factor for albedo                 [1/day]
  2   50        0.00      CRAD      Radiation melt component                      [1]
  2   51        1.00      CONV      Convection melt component                     [1]
  2   52        0.0       COND      Condensation melt component                   [1]
  2   60         1.20     CEVPL     lake evapotranspiration adjustment fact       [1]
  2   61         0.5      ERED      evapotranspiration red. during interception   [1]
  2   62        30.0      ICEDAY    Lake temperature time constant                [d]
  2   63       -0.60      TTGRAD    Temperature gradient for days without precip [deg/100 m]
  2   64       -0.80      TVGRAD    Temperature gradient for days with precip    [deg/100 m]
  2   65        0.26      PGRAD     Precipitation altitude gradient              [1/100 m]
  2   66        1.50      CBRE      Melt increase on glacier ice                  [1]
  2   67        0.70      EP        EP( 1), Pot evapotranspiration, Jan    [mm/day] or [1]
  2   68        0.70      EP        EP( 2), Pot evapotranspiration, Feb    [mm/day] or [1]
  2   69        0.70      EP        EP( 3)
  2   70        1.00      EP        EP( 4)
  2   71        1.30      EP        EP( 5)
  2   72        1.40      EP        EP( 6)
  2   73        1.30      EP        EP( 7)
  2   74        1.10      EP        EP( 8)
  2   75        1.00      EP        EP( 9)
  2   76        0.90      EP        EP(10)
  2   77        0.70      EP        EP(11)
  2   78        0.70      EP        EP(12)), Pot evapotranspiration, Dec    [mm/day] or [1]
  2   79      150.00      FC        Maximum soil water content            [mm]
  2   80        0.70      FCDEL     Pot.evapotr when content = FC*FCDEL   [1]
  2   81        1.00      BETA      Non-linearity in soil water zone      [1]
  2   82       2.00      INFMAX    maximum infiltration capacity         [mm/day]
  2   83
```

```
  2   84
  2   85        0.20      KUZ2      Quick time constant upper zone       [1/day]
  2   86       30.00      UZ1       Threshold quick runoff               [mm]
  2   87        0.20      KUZ1      Slow time constant upper zone        [1/day]
  2   88        1.70      PERC      Percolation to lower zone            [mm/day]
  2   89        0.01      KLZ       Time constant lower zone             [1/day]
  2   90        0.00      ROUT      (1), Routing constant (lake area, km2)
  2   91        0.00      ROUT      (2), Routing constant (rating curve const)
  2   92        0.00      ROUT      (3), Routing constant (rating curve zero)
  2   93        0.00      ROUT      (4), Routing constant (rating curve exp)
  2   94        0.00      ROUT      (5), Routing constant (drained area ratio)
  2   95        0.00      DECAY     (1), Feedback constant
  2   96        0.00      DECAY     (2), Feedback constant
  2   97        0.00      DECAY     (3), Feedback constant
  2   98        0.30      CE        Evapotranspiration constant          [mm/deg/day]
  2   99        0.0       DRAW      "draw up" constant                   [mm/day]
  2  100        66.2      LAT       Latitude                             [deg]
  2  101       -0.40      TGRAD(1)  Temperature gradient Jan             [deg/100m]
  2  102       -0.40      TGRAD(2)  Temperature gradient Feb             [deg/100m]
  2  103       -0.50      TGRAD(3)  Temperature gradient Mar             [deg/100m]
  2  104       -0.55      TGRAD(4)  Temperature gradient Apr             [deg/100m]
  2  105       -0.55      TGRAD(5)  Temperature gradient May             [deg/100m]
  2  106       -0.50      TGRAD(6)  Temperature gradient Jun             [deg/100m]
  2  107       -0.50      TGRAD(7)  Temperature gradient Jul             [deg/100m]
  2  108       -0.50      TGRAD(8)  Temperature gradient Aug             [deg/100m]
  2  109       -0.50      TGRAD(9)  Temperature gradient Sep             [deg/100m]
  2  110       -0.50      TGRAD(10) Temperature gradient Oct             [deg/100m]
  2  111       -0.50      TGRAD(11) Temperature gradient Nov             [deg/100m]
  2  112       -0.47      TGRAD(12) Temperature gradient Dec             [deg/100m]
  2  113        40.0      SPDIST    Uniformly distributed snow acc       [mm]
  2  114       120.0      SMINI     Inital soil moisture content         [mm]
  2  115         0.0      UZINI     Initial upper zone content           [mm]
  2  116        30.0      LZINI     Initial lower zone content           [mm]
  2  121           4      VEGT(1,1) Vegetation type 1, zone 1
  2  122           0      VEGT(2,1) Vegetation type 2, zone 1
  2  123         0.0      VEGA(1)   Vegetation 2 area, zone 1           [1]
  2  124         0.0      LAKE(1)   Lake area,         zone 1           [1]
  2  125           4      VEGT(1,2) Vegetation type 1, zone 2
  2  126           0      VEGT(2,2) Vegetation type 2, zone 2
  2  127         0.0      VEGA(2)   Vegetation 2 area, zone 2           [1]
  2  128         0.0      LAKE(2)   Lake area,         zone 2           [1]
  2  129           4      VEGT(1,3) Vegetation type 1, zone 3
  2  130           0      VEGT(2,3) Vegetation type 2, zone 3
  2  131         0.0      VEGA(3)   Vegetation 2 area, zone 3           [1]
  2  132         0.0      LAKE(3)   Lake area,         zone 3           [1]
  2  133           4      VEGT(1,4) Vegetation type 1, zone 4
  2  134           0      VEGT(2,4) Vegetation type 2, zone 4
  2  135         0.0      VEGA(4)   Vegetation 2 area, zone 4           [1]
  2  136         0.0      LAKE(4)   Lake area,         zone 4           [1]
  2  137           4      VEGT(1,5) Vegetation type 1, zone 5
  2  138           0      VEGT(2,5) Vegetation type 2, zone 5
  2  139         0.0      VEGA(5)   Vegetation 2 area, zone 5           [1]
  2  140         0.0      LAKE(5)   Lake area,         zone 5           [1]
  2  141           4      VEGT(1,6) Vegetation type 1, zone 6
  2  142           0      VEGT(2,6) Vegetation type 2, zone 6
  2  143         0.0      VEGA(6)   Vegetation 2 area, zone 6           [1]
  2  144         0.0      LAKE(6)   Lake area,         zone 6           [1]
  2  145           4      VEGT(1,7) Vegetation type 1, zone 7
  2  146           0      VEGT(2,7) Vegetation type 2, zone 7
  2  147         0.0      VEGA(7)   Vegetation 2 area, zone 7           [1]
  2  148         0.0      LAKE(7)   Lake area,         zone 7           [1]
  2  149           4      VEGT(1,8) Vegetation type 1, zone 8
  2  150           0      VEGT(2,8) Vegetation type 2, zone 8
  2  151         0.0      VEGA(8)   Vegetation 2 area, zone 8           [1]
  2  152         0.0      LAKE(8)   Lake area,         zone 8           [1]
  2  153           4      VEGT(1,9) Vegetation type 1, zone 9
  2  154           0      VEGT(2,9) Vegetation type 2, zone 9
  2  155         0.0      VEGA(9)   Vegetation 2 area, zone 9           [1]
  2  156         0.0      LAKE(9)   Lake area,         zone 9           [1]
  2  157           4      VEGT(1,10) Vegetation type 1, zone 10
  2  158           0      VEGT(2,10) Vegetation type 2, zone 10
  2  159         0.0      VEGA(10)  Vegetation 2 area, zone 10          [1]
  2  160         0.0      LAKE(10)  Lake area,         zone 10          [1]
FINIS
```

Stuðlaskrá hlutvatnasviðs ofan Eyvindarfjarðarvatns (skrá /os/sgh/vmgogn/rennsli/20480)

```
START  2V198
  2    0              4    PNO       Number of precipitation stations
  2    0  Galtarv.250     PID1      Identification for precip station 1
  2    0           20.     PHOH1     Altitude precip station 1
  2    0           .0     PWGT1     Weight precipitation station 1
  2    0  Æðey.260        PID2
  2    0           05.     PHOH2
  2    0           .0      PWGT2
  2    0  Gjögur.290      PID3
  2    0           05.     PHOH3
  2    0           .85      PWGT3
  2    0  Hraun á Sk.352 PID1      Identification for precip station 1
  2    0           03.     PHOH1     Altitude precip station 1
  2    0           .15     PWGT1     Weight precipitation station 1
  2    0              3    TNO       Number of temperature stations
  2    0  Galtarv.250     TID1      Identification for temp station 1
  2    0           20.     THOH1     Altitude temp station 1
  2    0           .0      TWGT1     Weight temp station 1
  2    0  Æðey.260        TID2
  2    0           05.     THOH2
  2    0           .0     TWGT2
  2    0  Gjögur.290      TID3
  2    0           05.     THOH3
  2    0           1.0     TWGT3
  2    0             1     QNO       Number of discharge stations
  2    0  vhm198          QID       Identification for discharge station
  2    0            1.0    QWGT      Scaling factor for discharge
  2    0           25.68    AREAL     Catchment area                    [km2]
  2    4          0.000    MAGDEL    Regulation reservoirs            [1]
  2    5         50.000    HYPSO ( 1,1), low point            [m]
  2    6        100.000    HYPSO ( 2,1)
  2    7        400.000    HYPSO ( 3,1)
  2    8        500.000    HYPSO ( 4,1)
  2    9        550.000    HYPSO ( 5,1)
  2   10        600.000    HYPSO ( 6,1)
  2   11        700.000    HYPSO ( 7,1)
  2   12        800.000    HYPSO ( 8,1)
  2   13        900.000    HYPSO ( 9,1)
  2   14        950.000    HYPSO (10,1)
  2   15       1000.000     HYPSO (11,1), high point
  2   16          0.000    HYPSO ( 1,2), Part of total area below HYPSO (1,1) = 0
  2   17          0.000   HYPSO ( 2,2)
  2   18          0.024    HYPSO ( 3,2)
  2   19          0.373    HYPSO ( 4,2)
  2   20          0.374    HYPSO ( 5,2)
  2   21          0.857    HYPSO ( 6,2)
  2   22          0.978    HYPSO ( 7,2)
  2   23          0.999    HYPSO ( 8,2)
  2   24          1.000    HYPSO ( 9,2)
  2   25          1.000    HYPSO (10,2)
  2   26          1.000    HYPSO (11,2), Part of total area below HYPSO (11,1) = 1
  2   27          0.000    BREPRO( 1), Glacier area, part of total area, below HYPSO( 1,1) (=0.0)
  2   28          0.000
  2   29          0.000
  2   30          0.000
  2   31          0.000
  2   32          0.000
  2   33          0.000
  2   34          0.000
  2   35          0.000
  2   36          0.000
  2   37          0.000    BREPRO(11), Glacier area, part of total area, below HYPSO(11,1)
  2   39        270.0      NDAG      Day no for conversion of glacier snow to ice
  2   40          1.10     TX        Threshold temperature for snow/precip.          [C]
  2   41         -0.40     TS        Threshold temperature fo no melt              [C]
  2   42          7.80     CX        Melt index                            [mm/deg/day]
  2   43         0.050     CFR       Refreeze efficiency                           [1]
  2   44         0.08       LV        Max rel. water content in snow                [1]
  2   45          1.50     PKORR     Precipitaion correction for rain              [1]
  2   46          1.80     SKORR     Additional precipitation corection for snow at gauge [1]
  2   47          365.0    GRADALT   Altitude for change in prec. grad.            [m]
  2   48          0.06     PGRAD1    Precipitation gradient above GRADALT          [1]
  2   49          0.02     CALB      Ageing factor for albedo                  [1/day]
  2   50          0.00     CRAD      Radiation melt component                      [1]
  2   51          1.00     CONV      Convection melt component                     [1]
  2   52          0.0      COND      Condensation melt component                   [1]
  2   60           1.20    CEVPL     lake evapotranspiration adjustment fact       [1]
  2   61           0.5     ERED      evapotranspiration red. during interception   [1]
  2   62          30.0     ICEDAY    Lake temperature time constant                [d]
  2   63         -0.60     TTGRAD    Temperature gradient for days without precip [deg/100 m]
  2   64         -0.80     TVGRAD    Temperature gradient for days with precip    [deg/100 m]
  2   65          0.26     PGRAD     Precipitation altitude gradient              [1/100 m]
  2   66          1.50     CBRE      Melt increase on glacier ice                  [1]
  2   67          0.70     EP        EP( 1), Pot evapotranspiration, Jan     [mm/day] or [1]
  2   68          0.70     EP        EP( 2), Pot evapotranspiration, Feb     [mm/day] or [1]
  2   69          0.70     EP        EP( 3)
  2   70          1.00     EP        EP( 4)
  2   71          1.30     EP        EP( 5)
  2   72          1.40     EP        EP( 6)
  2   73          1.30     EP        EP( 7)
  2   74          1.10     EP        EP( 8)
  2   75          1.00     EP        EP( 9)
  2   76          0.90     EP        EP(10)
  2   77          0.70     EP        EP(11)
  2   78          0.70     EP        EP(12)), Pot evapotranspiration, Dec     [mm/day] or [1]
  2   79        150.00     FC        Maximum soil water content            [mm]
  2   80          0.70     FCDEL     Pot.evapotr when content = FC*FCDEL   [1]
  2   81          1.00     BETA      Non-linearity in soil water zone      [1]
  2   82         2.00     INFMAX    maximum infiltration capacity         [mm/day]
  2   83
```

```
 2   84
 2   85        0.20      KUZ2      Quick time constant upper zone       [1/day]
 2   86       30.00      UZ1       Threshold quick runoff               [mm]
 2   87        0.20      KUZ1      Slow time constant upper zone        [1/day]
 2   88        1.70      PERC      Percolation to lower zone            [mm/day]
 2   89        0.01      KLZ       Time constant lower zone             [1/day]
 2   90        0.00      ROUT      (1), Routing constant (lake area, km2)
 2   91        0.00      ROUT      (2), Routing constant (rating curve const)
 2   92        0.00      ROUT      (3), Routing constant (rating curve zero)
 2   93        0.00      ROUT      (4), Routing constant (rating curve exp)
 2   94        0.00      ROUT      (5), Routing constant (drained area ratio)
 2   95        0.00      DECAY     (1), Feedback constant
 2   96        0.00      DECAY     (2), Feedback constant
 2   97        0.00      DECAY     (3), Feedback constant
 2   98        0.30      CE        Evapotranspiration constant          [mm/deg/day]
 2   99        0.0       DRAW      "draw up" constant                   [mm/day]
 2  100        66.2      LAT       Latitude                             [deg]
 2  101       -0.40      TGRAD(1)  Temperature gradient Jan             [deg/100m]
 2  102       -0.40      TGRAD(2)  Temperature gradient Feb             [deg/100m]
 2  103       -0.50      TGRAD(3)  Temperature gradient Mar             [deg/100m]
 2  104       -0.55      TGRAD(4)  Temperature gradient Apr             [deg/100m]
 2  105       -0.55      TGRAD(5)  Temperature gradient May             [deg/100m]
 2  106       -0.50      TGRAD(6)  Temperature gradient Jun             [deg/100m]
 2  107       -0.50      TGRAD(7)  Temperature gradient Jul             [deg/100m]
 2  108       -0.50      TGRAD(8)  Temperature gradient Aug             [deg/100m]
 2  109       -0.50      TGRAD(9)  Temperature gradient Sep             [deg/100m]
 2  110       -0.50      TGRAD(10) Temperature gradient Oct             [deg/100m]
 2  111       -0.50      TGRAD(11) Temperature gradient Nov             [deg/100m]
 2  112       -0.47      TGRAD(12) Temperature gradient Dec             [deg/100m]
 2  113        40.0      SPDIST    Uniformly distributed snow acc       [mm]
 2  114       120.0      SMINI     Inital soil moisture content         [mm]
 2  115          0.0     UZINI     Initial upper zone content           [mm]
 2  116        30.0      LZINI     Initial lower zone content           [mm]
 2  121           4      VEGT(1,1) Vegetation type 1, zone 1
 2  122           0      VEGT(2,1) Vegetation type 2, zone 1
 2  123         0.0      VEGA(1)   Vegetation 2 area, zone 1           [1]
 2  124         0.0      LAKE(1)   Lake area,         zone 1           [1]
 2  125           4      VEGT(1,2) Vegetation type 1, zone 2
 2  126           0      VEGT(2,2) Vegetation type 2, zone 2
 2  127         0.0      VEGA(2)   Vegetation 2 area, zone 2           [1]
 2  128         0.0      LAKE(2)   Lake area,         zone 2           [1]
 2  129           4      VEGT(1,3) Vegetation type 1, zone 3
 2  130           0      VEGT(2,3) Vegetation type 2, zone 3
 2  131         0.0      VEGA(3)   Vegetation 2 area, zone 3           [1]
 2  132         0.0      LAKE(3)   Lake area,         zone 3           [1]
 2  133           4      VEGT(1,4) Vegetation type 1, zone 4
 2  134           0      VEGT(2,4) Vegetation type 2, zone 4
 2  135         0.0      VEGA(4)   Vegetation 2 area, zone 4           [1]
 2  136         0.0      LAKE(4)   Lake area,         zone 4           [1]
 2  137           4      VEGT(1,5) Vegetation type 1, zone 5
 2  138           0      VEGT(2,5) Vegetation type 2, zone 5
 2  139         0.0      VEGA(5)   Vegetation 2 area, zone 5           [1]
 2  140         0.0      LAKE(5)   Lake area,         zone 5           [1]
 2  141           4      VEGT(1,6) Vegetation type 1, zone 6
 2  142           0      VEGT(2,6) Vegetation type 2, zone 6
 2  143         0.0      VEGA(6)   Vegetation 2 area, zone 6           [1]
 2  144         0.0      LAKE(6)   Lake area,         zone 6           [1]
 2  145           4      VEGT(1,7) Vegetation type 1, zone 7
 2  146           0      VEGT(2,7) Vegetation type 2, zone 7
 2  147         0.0      VEGA(7)   Vegetation 2 area, zone 7           [1]
 2  148         0.0      LAKE(7)   Lake area,         zone 7           [1]
 2  149           4      VEGT(1,8) Vegetation type 1, zone 8
 2  150           0      VEGT(2,8) Vegetation type 2, zone 8
 2  151         0.0      VEGA(8)   Vegetation 2 area, zone 8           [1]
 2  152         0.0      LAKE(8)   Lake area,         zone 8           [1]
 2  153           4      VEGT(1,9) Vegetation type 1, zone 9
 2  154           0      VEGT(2,9) Vegetation type 2, zone 9
 2  155         0.0      VEGA(9)   Vegetation 2 area, zone 9           [1]
 2  156         0.0      LAKE(9)   Lake area,         zone 9           [1]
 2  157           4      VEGT(1,10) Vegetation type 1, zone 10
 2  158           0      VEGT(2,10) Vegetation type 2, zone 10
 2  159         0.0      VEGA(10)   Vegetation 2 area, zone 10         [1]
 2  160         0.0      LAKE(10)   Lake area,         zone 10         [1]
FINIS
```

Stuðlaskrá Húsár (skrá /os/sgh/vmgogn/rennsli/20013)

```
START  2V198
  2    0            4     PNO       Number of precipitation stations
  2    0  Galtarv.250     PID1      Identification for precip station 1
  2    0         20.      PHOH1     Altitude precip station 1
  2    0          .0     PWGT1     Weight precipitation station 1
  2    0  Æðey.260        PID2
  2    0         05.      PHOH2
  2    0          .0      PWGT2
  2    0  Gjögur.290      PID3
  2    0         05.      PHOH3
  2    0         .85       PWGT3
  2    0  Hraun á Sk.352 PID1      Identification for precip station 1
  2    0         03.      PHOH1     Altitude precip station 1
  2    0         .15      PWGT1     Weight precipitation station 1
  2    0           3      TNO       Number of temperature stations
  2    0  Galtarv.250     TID1      Identification for temp station 1
  2    0         20.      THOH1     Altitude temp station 1
  2    0          .0      TWGT1     Weight temp station 1
  2    0  Æðey.260        TID2
  2    0         05.      THOH2
  2    0          .0     TWGT2
  2    0  Gjögur.290      TID3
  2    0         05.      THOH3
  2    0         1.0      TWGT3
  2    0           1      QNO       Number of discharge stations
  2    0  vhm198          QID       Identification for discharge station
  2    0          1.0     QWGT      Scaling factor for discharge
  2    0        32.06    AREAL     Catchment area                    [km2]
  2    4        0.000    MAGDEL    Regulation reservoirs              [1]
  2    5       50.000    HYPSO ( 1,1), low point            [m]
  2    6      100.000    HYPSO ( 2,1)
  2    7      200.000    HYPSO ( 3,1)
  2    8      250.000    HYPSO ( 4,1)
  2    9      300.000    HYPSO ( 5,1)
  2   10      350.000    HYPSO ( 6,1)
  2   11      400.000    HYPSO ( 7,1)
  2   12      450.000    HYPSO ( 8,1)
  2   13      500.000    HYPSO ( 9,1)
  2   14      600.000    HYPSO (10,1)
  2   15      650.000    HYPSO (11,1), high point
  2   16        0.000    HYPSO ( 1,2), Part of total area below HYPSO (1,1) = 0
  2   17        0.067    HYPSO ( 2,2)
  2   18        0.211    HYPSO ( 3,2)
  2   19        0.323    HYPSO ( 4,2)
  2   20        0.420    HYPSO ( 5,2)
  2   21        0.519    HYPSO ( 6,2)
  2   22        0.625    HYPSO ( 7,2)
  2   23        0.824    HYPSO ( 8,2)
  2   24        0.893    HYPSO ( 9,2)
  2   25        0.993    HYPSO (10,2)
  2   26        1.000    HYPSO (11,2), Part of total area below HYPSO (11,1) = 1
  2   27        0.000    BREPRO( 1), Glacier area, part of total area, below HYPSO( 1,1) (=0.0)
  2   28        0.000
  2   29        0.000
  2   30        0.000
  2   31        0.000
  2   32        0.000
  2   33        0.000
  2   34        0.000
  2   35        0.000
  2   36        0.000
  2   37        0.000    BREPRO(11), Glacier area, part of total area, below HYPSO(11,1)
  2   39       270.0     NDAG      Day no for conversion of glacier snow to ice
  2   40        1.10     TX        Threshold temperature for snow/precip.          [C]
  2   41       -0.40     TS        Threshold temperature fo no melt              [C]
  2   42        7.80     CX        Melt index                              [mm/deg/day]
  2   43       0.050     CFR       Refreeze efficiency                           [1]
  2   44       0.08       LV        Max rel. water content in snow                [1]
  2   45        1.50     PKORR     Precipitaion correction for rain              [1]
  2   46        1.80     SKORR     Additional precipitation corection for snow at gauge [1]
  2   47        365.0    GRADALT   Altitude for change in prec. grad.            [m]
  2   48        0.06     PGRAD1    Precipitation gradient above GRADALT          [1]
  2   49        0.02     CALB      Ageing factor for albedo                 [1/day]
  2   50        0.00     CRAD      Radiation melt component                      [1]
  2   51        1.00     CONV      Convection melt component                     [1]
  2   52        0.0      COND      Condensation melt component                   [1]
  2   60         1.20    CEVPL     lake evapotranspiration adjustment fact       [1]
  2   61         0.5     ERED      evapotranspiration red. during interception   [1]
  2   62        30.0     ICEDAY    Lake temperature time constant                [d]
  2   63       -0.60     TTGRAD    Temperature gradient for days without precip [deg/100 m]
  2   64       -0.80     TVGRAD    Temperature gradient for days with precip    [deg/100 m]
  2   65        0.26     PGRAD     Precipitation altitude gradient              [1/100 m]
  2   66        1.50     CBRE      Melt increase on glacier ice                  [1]
  2   67        0.70     EP        EP( 1), Pot evapotranspiration, Jan    [mm/day] or [1]
  2   68        0.70     EP        EP( 2), Pot evapotranspiration, Feb    [mm/day] or [1]
  2   69        0.70     EP        EP( 3)
  2   70        1.00     EP        EP( 4)
  2   71        1.30     EP        EP( 5)
  2   72        1.40     EP        EP( 6)
  2   73        1.30     EP        EP( 7)
  2   74        1.10     EP        EP( 8)
  2   75        1.00     EP        EP( 9)
  2   76        0.90     EP        EP(10)
  2   77        0.70     EP        EP(11)
  2   78        0.70     EP        EP(12)), Pot evapotranspiration, Dec    [mm/day] or [1]
  2   79      150.00     FC        Maximum soil water content            [mm]
  2   80        0.70     FCDEL     Pot.evapotr when content = FC*FCDEL   [1]
  2   81        1.00     BETA      Non-linearity in soil water zone      [1]
  2   82       2.00     INFMAX    maximum infiltration capacity         [mm/day]
  2   83
```

```
 2   84
 2   85        0.20      KUZ2      Quick time constant upper zone        [1/day]
 2   86       30.00      UZ1       Threshold quick runoff                [mm]
 2   87        0.20      KUZ1      Slow time constant upper zone         [1/day]
 2   88        1.70      PERC      Percolation to lower zone             [mm/day]
 2   89        0.01      KLZ       Time constant lower zone              [1/day]
 2   90        0.00      ROUT      (1), Routing constant (lake area, km2)
 2   91        0.00      ROUT      (2), Routing constant (rating curve const)
 2   92        0.00      ROUT      (3), Routing constant (rating curve zero)
 2   93        0.00      ROUT      (4), Routing constant (rating curve exp)
 2   94        0.00      ROUT      (5), Routing constant (drained area ratio)
 2   95        0.00      DECAY     (1), Feedback constant
 2   96        0.00      DECAY     (2), Feedback constant
 2   97        0.00      DECAY     (3), Feedback constant
 2   98        0.30      CE        Evapotranspiration constant           [mm/deg/day]
 2   99        0.0       DRAW      "draw up" constant                    [mm/day]
 2  100        66.2      LAT       Latitude                              [deg]
 2  101       -0.40      TGRAD(1)  Temperature gradient Jan              [deg/100m]
 2  102       -0.40      TGRAD(2)  Temperature gradient Feb              [deg/100m]
 2  103       -0.50      TGRAD(3)  Temperature gradient Mar              [deg/100m]
 2  104       -0.55      TGRAD(4)  Temperature gradient Apr              [deg/100m]
 2  105       -0.55      TGRAD(5)  Temperature gradient May              [deg/100m]
 2  106       -0.50      TGRAD(6)  Temperature gradient Jun              [deg/100m]
 2  107       -0.50      TGRAD(7)  Temperature gradient Jul              [deg/100m]
 2  108       -0.50      TGRAD(8)  Temperature gradient Aug              [deg/100m]
 2  109       -0.50      TGRAD(9)  Temperature gradient Sep              [deg/100m]
 2  110       -0.50      TGRAD(10) Temperature gradient Oct              [deg/100m]
 2  111       -0.50      TGRAD(11) Temperature gradient Nov              [deg/100m]
 2  112       -0.47      TGRAD(12) Temperature gradient Dec              [deg/100m]
 2  113        40.0      SPDIST    Uniformly distributed snow acc        [mm]
 2  114       120.0      SMINI     Inital soil moisture content          [mm]
 2  115          0.0      UZINI     Initial upper zone content           [mm]
 2  116        30.0      LZINI     Initial lower zone content            [mm]
 2  121           4      VEGT(1,1) Vegetation type 1, zone 1
 2  122           0      VEGT(2,1) Vegetation type 2, zone 1
 2  123         0.0      VEGA(1)   Vegetation 2 area, zone 1            [1]
 2  124         0.0      LAKE(1)   Lake area,         zone 1            [1]
 2  125           4      VEGT(1,2) Vegetation type 1, zone 2
 2  126           0      VEGT(2,2) Vegetation type 2, zone 2
 2  127         0.0      VEGA(2)   Vegetation 2 area, zone 2            [1]
 2  128         0.0      LAKE(2)   Lake area,         zone 2            [1]
 2  129           4      VEGT(1,3) Vegetation type 1, zone 3
 2  130           0      VEGT(2,3) Vegetation type 2, zone 3
 2  131         0.0      VEGA(3)   Vegetation 2 area, zone 3            [1]
 2  132         0.0      LAKE(3)   Lake area,         zone 3            [1]
 2  133           4      VEGT(1,4) Vegetation type 1, zone 4
 2  134           0      VEGT(2,4) Vegetation type 2, zone 4
 2  135         0.0      VEGA(4)   Vegetation 2 area, zone 4            [1]
 2  136         0.0      LAKE(4)   Lake area,         zone 4            [1]
 2  137           4      VEGT(1,5) Vegetation type 1, zone 5
 2  138           0      VEGT(2,5) Vegetation type 2, zone 5
 2  139         0.0      VEGA(5)   Vegetation 2 area, zone 5            [1]
 2  140         0.0      LAKE(5)   Lake area,         zone 5            [1]
 2  141           4      VEGT(1,6) Vegetation type 1, zone 6
 2  142           0      VEGT(2,6) Vegetation type 2, zone 6
 2  143         0.0      VEGA(6)   Vegetation 2 area, zone 6            [1]
 2  144         0.0      LAKE(6)   Lake area,         zone 6            [1]
 2  145           4      VEGT(1,7) Vegetation type 1, zone 7
 2  146           0      VEGT(2,7) Vegetation type 2, zone 7
 2  147         0.0      VEGA(7)   Vegetation 2 area, zone 7            [1]
 2  148         0.0      LAKE(7)   Lake area,         zone 7            [1]
 2  149           4      VEGT(1,8) Vegetation type 1, zone 8
 2  150           0      VEGT(2,8) Vegetation type 2, zone 8
 2  151         0.0      VEGA(8)   Vegetation 2 area, zone 8            [1]
 2  152         0.0      LAKE(8)   Lake area,         zone 8            [1]
 2  153           4      VEGT(1,9) Vegetation type 1, zone 9
 2  154           0      VEGT(2,9) Vegetation type 2, zone 9
 2  155         0.0      VEGA(9)   Vegetation 2 area, zone 9            [1]
 2  156         0.0      LAKE(9)   Lake area,         zone 9            [1]
 2  157           4      VEGT(1,10) Vegetation type 1, zone 10
 2  158           0      VEGT(2,10) Vegetation type 2, zone 10
 2  159         0.0      VEGA(10)   Vegetation 2 area, zone 10          [1]
 2  160         0.0      LAKE(10)   Lake area,         zone 10          [1]
FINIS
```

Stuðlaskrá Skúfnavatna á vatnasviði Þverár, Langadalströnd (skrá /os/sgh/vmgogn/rennsli/20477)

```
START  2V038
  2    0            4     PNO       Number of precipitation stations
  2    0  Galtarv.250     PID1      Identification for precip station 1
  2    0          20.     PHOH1     Altitude precip station 1
  2    0          .25     PWGT1     Weight precipitation station 1
  2    0  Æðey.260        PID2
  2    0          05.     PHOH2
  2    0          .50      PWGT2
  2    0  Gjögur.290      PID3
  2    0          05.     PHOH3
  2    0          .25      PWGT3
  2    0  Hraun á Sk.352 PID1      Identification for precip station 1
  2    0          03.     PHOH1     Altitude precip station 1
  2    0          .0     PWGT1     Weight precipitation station 1
  2    0            3     TNO       Number of temperature stations
  2    0  Galtarv.250     TID1      Identification for temp station 1
  2    0          20.     THOH1     Altitude temp station 1
  2    0          .30      TWGT1     Weight temp station 1
  2    0  Æðey.260        TID2
  2    0          05.     THOH2
  2    0          .70     TWGT2
  2    0  Gjögur.290      TID3
  2    0          05.     THOH3
  2    0          0.0     TWGT3
  2    0            1     QNO       Number of discharge stations
  2    0  vhm038          QID       Identification for discharge station
  2    0           1.0    QWGT      Scaling factor for discharge
  2    0          7.83    AREAL     Catchment area                    [km2]
  2    4         0.000    MAGDEL    Regulation reservoirs             [1]
  2    5        25.000    HYPSO ( 1,1), low point              [m]
  2    6       300.000    HYPSO ( 2,1)
  2    7       380.000    HYPSO ( 3,1)
  2    8       412.000    HYPSO ( 4,1)
  2    9       431.000    HYPSO ( 5,1)
  2   10       440.000    HYPSO ( 6,1)
  2   11       458.000    HYPSO ( 7,1)
  2   12       472.000    HYPSO ( 8,1)
  2   13       500.000    HYPSO ( 9,1)
  2   14       600.000    HYPSO (10,1)
  2   15       700.000    HYPSO (11,1), high point
  2   16         0.000    HYPSO ( 1,2), Part of total area below HYPSO (1,1) = 0
  2   17         0.000   HYPSO ( 2,2)
  2   18         0.000    HYPSO ( 3,2)
  2   19         0.000    HYPSO ( 4,2)
  2   20         0.000    HYPSO ( 5,2)
  2   21         0.000    HYPSO ( 6,2)
  2   22         0.000    HYPSO ( 7,2)
  2   23         0.000    HYPSO ( 8,2)
  2   24         0.036    HYPSO ( 9,2)
  2   25         1.000    HYPSO (10,2)
  2   26         1.000    HYPSO (11,2), Part of total area below HYPSO (11,1) = 1
  2   27         0.000    BREPRO( 1), Glacier area, part of total area, below HYPSO( 1,1) (=0.0)
  2   28         0.000
  2   29         0.000
  2   30         0.000
  2   31         0.000
  2   32         0.000
  2   33         0.000
  2   34         0.000
  2   35         0.000
  2   36         0.000
  2   37         0.000    BREPRO(11), Glacier area, part of total area, below HYPSO(11,1)
  2   39       270.0      NDAG      Day no for conversion of glacier snow to ice
  2   40         1.20     TX        Threshold temperature for snow/precip.          [C]
  2   41        -0.20     TS        Threshold temperature fo no melt              [C]
  2   42         3.00     CX        Melt index                            [mm/deg/day]
  2   43        0.050     CFR       Refreeze efficiency                           [1]
  2   44        0.08       LV        Max rel. water content in snow                [1]
  2   45         1.10     PKORR     Precipitaion correction for rain              [1]
  2   46         1.40     SKORR     Additional precipitation corection for snow at gauge [1]
  2   47         365.0    GRADALT   Altitude for change in prec. grad.            [m]
  2   48         0.04     PGRAD1    Precipitation gradient above GRADALT          [1]
  2   49         0.02     CALB      Ageing factor for albedo                  [1/day]
  2   50         0.00     CRAD      Radiation melt component                      [1]
  2   51         1.00     CONV      Convection melt component                     [1]
  2   52         0.0      COND      Condensation melt component                   [1]
  2   60          1.20    CEVPL     lake evapotranspiration adjustment fact       [1]
  2   61          0.5     ERED      evapotranspiration red. during interception   [1]
  2   62         30.0     ICEDAY    Lake temperature time constant                [d]
  2   63        -0.60     TTGRAD    Temperature gradient for days without precip [deg/100 m]
  2   64        -0.60     TVGRAD    Temperature gradient for days with precip    [deg/100 m]
  2   65         0.22     PGRAD     Precipitation altitude gradient              [1/100 m]
  2   66         1.50     CBRE      Melt increase on glacier ice                  [1]
  2   67         0.70     EP        EP( 1), Pot evapotranspiration, Jan    [mm/day] or [1]
  2   68         0.70     EP        EP( 2), Pot evapotranspiration, Feb    [mm/day] or [1]
  2   69         0.70     EP        EP( 3)
  2   70         1.00     EP        EP( 4)
  2   71         1.30     EP        EP( 5)
  2   72         1.40     EP        EP( 6)
  2   73         1.30     EP        EP( 7)
  2   74         1.10     EP        EP( 8)
  2   75         1.00     EP        EP( 9)
  2   76         0.90     EP        EP(10)
  2   77         0.70     EP        EP(11)
  2   78         0.70     EP        EP(12)), Pot evapotranspiration, Dec    [mm/day] or [1]
  2   79       150.00     FC        Maximum soil water content            [mm]
  2   80         0.70     FCDEL     Pot.evapotr when content = FC*FCDEL   [1]
  2   81         1.00     BETA      Non-linearity in soil water zone      [1]
  2   82        2.00     INFMAX    maximum infiltration capacity         [mm/day]
  2   83
```

```
 2   84
 2   85        0.13      KUZ2      Quick time constant upper zone       [1/day]
 2   86       10.00      UZ1       Threshold quick runoff               [mm]
 2   87        0.05      KUZ1      Slow time constant upper zone        [1/day]
 2   88        1.70      PERC      Percolation to lower zone            [mm/day]
 2   89        0.02      KLZ       Time constant lower zone             [1/day]
 2   90        0.00      ROUT      (1), Routing constant (lake area, km2)
 2   91        0.00      ROUT      (2), Routing constant (rating curve const)
 2   92        0.00      ROUT      (3), Routing constant (rating curve zero)
 2   93        0.00      ROUT      (4), Routing constant (rating curve exp)
 2   94        0.00      ROUT      (5), Routing constant (drained area ratio)
 2   95        0.00      DECAY     (1), Feedback constant
 2   96        0.00      DECAY     (2), Feedback constant
 2   97        0.00      DECAY     (3), Feedback constant
 2   98        0.30      CE        Evapotranspiration constant          [mm/deg/day]
 2   99        0.0       DRAW      "draw up" constant                   [mm/day]
 2  100        65.9      LAT       Latitude                             [deg]
 2  101       -0.40      TGRAD(1)  Temperature gradient Jan             [deg/100m]
 2  102       -0.40      TGRAD(2)  Temperature gradient Feb             [deg/100m]
 2  103       -0.50      TGRAD(3)  Temperature gradient Mar             [deg/100m]
 2  104       -0.55      TGRAD(4)  Temperature gradient Apr             [deg/100m]
 2  105       -0.55      TGRAD(5)  Temperature gradient May             [deg/100m]
 2  106       -0.50      TGRAD(6)  Temperature gradient Jun             [deg/100m]
 2  107       -0.50      TGRAD(7)  Temperature gradient Jul             [deg/100m]
 2  108       -0.50      TGRAD(8)  Temperature gradient Aug             [deg/100m]
 2  109       -0.50      TGRAD(9)  Temperature gradient Sep             [deg/100m]
 2  110       -0.50      TGRAD(10) Temperature gradient Oct             [deg/100m]
 2  111       -0.50      TGRAD(11) Temperature gradient Nov             [deg/100m]
 2  112       -0.47      TGRAD(12) Temperature gradient Dec             [deg/100m]
 2  113        40.0      SPDIST    Uniformly distributed snow acc       [mm]
 2  114       120.0      SMINI     Inital soil moisture content         [mm]
 2  115         0.0      UZINI     Initial upper zone content           [mm]
 2  116        30.0      LZINI     Initial lower zone content           [mm]
 2  121           4      VEGT(1,1) Vegetation type 1, zone 1
 2  122           0      VEGT(2,1) Vegetation type 2, zone 1
 2  123         0.0      VEGA(1)   Vegetation 2 area, zone 1            [1]
 2  124         0.0      LAKE(1)   Lake area,         zone 1            [1]
 2  125           4      VEGT(1,2) Vegetation type 1, zone 2
 2  126           0      VEGT(2,2) Vegetation type 2, zone 2
 2  127         0.0      VEGA(2)   Vegetation 2 area, zone 2            [1]
 2  128         0.0      LAKE(2)   Lake area,         zone 2            [1]
 2  129           4      VEGT(1,3) Vegetation type 1, zone 3
 2  130           0      VEGT(2,3) Vegetation type 2, zone 3
 2  131         0.0      VEGA(3)   Vegetation 2 area, zone 3            [1]
 2  132         0.0      LAKE(3)   Lake area,         zone 3            [1]
 2  133           4      VEGT(1,4) Vegetation type 1, zone 4
 2  134           0      VEGT(2,4) Vegetation type 2, zone 4
 2  135         0.0      VEGA(4)   Vegetation 2 area, zone 4            [1]
 2  136         0.0      LAKE(4)   Lake area,         zone 4            [1]
 2  137           4      VEGT(1,5) Vegetation type 1, zone 5
 2  138           0      VEGT(2,5) Vegetation type 2, zone 5
 2  139         0.0      VEGA(5)   Vegetation 2 area, zone 5            [1]
 2  140         0.0      LAKE(5)   Lake area,         zone 5            [1]
 2  141           4      VEGT(1,6) Vegetation type 1, zone 6
 2  142           0      VEGT(2,6) Vegetation type 2, zone 6
 2  143         0.0      VEGA(6)   Vegetation 2 area, zone 6            [1]
 2  144         0.0      LAKE(6)   Lake area,         zone 6            [1]
 2  145           4      VEGT(1,7) Vegetation type 1, zone 7
 2  146           0      VEGT(2,7) Vegetation type 2, zone 7
 2  147         0.0      VEGA(7)   Vegetation 2 area, zone 7            [1]
 2  148         0.0      LAKE(7)   Lake area,         zone 7            [1]
 2  149           4      VEGT(1,8) Vegetation type 1, zone 8
 2  150           0      VEGT(2,8) Vegetation type 2, zone 8
 2  151         0.0      VEGA(8)   Vegetation 2 area, zone 8            [1]
 2  152         0.0      LAKE(8)   Lake area,         zone 8            [1]
 2  153           4      VEGT(1,9) Vegetation type 1, zone 9
 2  154           0      VEGT(2,9) Vegetation type 2, zone 9
 2  155         0.0      VEGA(9)   Vegetation 2 area, zone 9            [1]
 2  156         0.0      LAKE(9)   Lake area,         zone 9            [1]
 2  157           4      VEGT(1,10) Vegetation type 1, zone 10
 2  158           0      VEGT(2,10) Vegetation type 2, zone 10
 2  159         0.0      VEGA(10)   Vegetation 2 area, zone 10          [1]
 2  160         0.0      LAKE(10)   Lake area,         zone 10          [1]
FINIS
```