



ORKUSTOFNUN
Vatnamælingar



Vatnafar á Ófeigsfjarðarheiði og Langadalsströnd

Rennslislíkön og hlutvatnasvið

Stefanía Guðrún Halldórsdóttir

Unnið fyrir Auðlindadeild Orkustofnunar

2001

OS-2001/092



Stefanía Guðrún Halldórsdóttir

Vatnafar á Ófeigsfjarðarheiði og Langa-dalsströnd

Rennslislíkön og hlutvatnasvið

Unnið fyrir Auðlindadeild Orkustofnunar

OS-2001/092

desember 2001

| | | | |
|---|--|--|-----------------------|
| Skýrsla nr: OS-2001/092 | Dags: des 2001 | Dreifing: <input checked="" type="checkbox"/> Opin <input type="checkbox"/> Lokuð til | |
| Heiti skýrslu / Aðal- og undirtitill: Vatnafar á Ófeigsfjarðarheiði og Langadalsströnd Rennslislíkön og hlutvatnasvið | | Upplag: 35 | |
| | | Fjöldi síðna: 60 | |
| Höfundar: Stefanía Guðrún Halldórsdóttir | Verkefnisstjóri: Kristinn Einarsson | | |
| Gerð skýrslu / Verkstig: Niðurstöður líkanreikninga, forathugun á rennsli | Verknúmer: 7-548550 | | |
| Unnið fyrir: Auðlindadeild Orkustofnunar | | | |
| Samvinnuaðilar: | | | |
| <p>Útdráttur:</p> <p>Greint er frá aðlögun HBV-rennslislíkans af Hvalá í Ófeigsfirði og Þverá á Langadalsströnd að hlutvatnasviðum á hálandi Ófeigsfjarðarheiðar og Langadalsstrandar. Hlutvatnasviðin eru á vatnasviðum Bæjardalsár, Hvannadalsár, Hafnardsalsár, Blævardalsár og Hraundalsár á Langadalsströnd, Selár í Steingrímsfirði, Eyvindarfjarðarár, Húsár og Reykjafjarðarár sem hafa afrennsli af Ófeigsfjarðarheiði. Rennslisraðir voru bornar saman við rennslismælingar sem gerðar hafa verið á svæðinu. Reiknaðar rennslisraðir spanna vatnsárin 1956-2001.</p> | | | |
| Lykilord: | ISBN-númer: | | |
| Rennslislíkön, HBV-líkan, afrennsli, vatnafar, hlutvatnasvið, Vestfirðir, Hvalá, Þverá á Langadalsströnd, Bæjardalsá, Hvannadalsá, Hafnardsalsá, Blævardalsá, Hraundalsá, Langadalsströnd, Selá í Steingrímsfirði, Eyvindarfjarðará, Húsá, Reykjafjarðará, Ófeigsfjarðarheiði |  Undískrift verkefnisstjóra: | | |
| | | | Yfirlægning af: KE |

Við gerð HBV-líkana var ekki stuðst við rennslisgögn sem talin eru ótrygg vegna t.d. ísátruflana. Verkefnið var unnið af Vatnamælingum Orkustofnunar fyrir Auðlindadeild Orkustofnunar.

1.1 HBV-líkön af hlutvatnasviðum

Þegar HBV-líkani er beitt á hlutvatnasvið er notað líkan af nærliggjandi vatnasviði, þar sem til eru rennslisgögn sem líkanið hefur verið lagað að. Notast er við líkön fyrir aðliggjandi mæli eða mæla, þegar rennsliseiginleikar eru yfirfærðir og látnir gilda fyrir nálæg svæði utan þeirra.

Hæðardreifingu og stærð vatnasviðs er breytt innan líkansins. Að öðru leyti er stuðst við sömu stuðlaskrá og sömu veðurgögn. Stuðlaskrárnar sem notaðar voru í þessu verkefni eru í viðauka skýrslunnar.

Við ákvörðun á hlutvatnasviðum á Ófeigsfjarðarheiði og Langadalsströnd var gengið út frá rennslismælingum sem gerðar voru í ágúst 1999. Hnit mælistáða voru sett inn í landfræðileg upplýsingakerfi, og hæðardreifing og stærð vatnasviða fundin með hæðarlíkani frá Landmælingum Íslands (The Defense Mapping Agency, 1986) og með handvirkri hnitun af kortum Orkustofnunar sem eru í mælikvarðanum 1:20 000 (Orkustofnun, 1962). Á mynd 1.1 eru hnit rennslismælistáða merkt inn sem punktar.

1.2 Rennslismælingar

Til þess að finna út hvaða líkan kæmi best út fyrir hvert vatnasvið var stuðst við rennslismælingar. Hér er vert að taka fram að þessar mælingar eru einu gögnin um mælt rennsli af hlutvatnasviðunum, og hefði án þeirra ekki verið hægt að bera saman mælt og reiknað rennsli.

Dagana 4.-11. ágúst 1999 var farin umfangsmikil mælingaferð um Vestfirði. Bæði var mælt á hálandi og láglendi. Veður var mjög stöðugt dagana á undan og meðan á ferðinni stóð, en ekki hafði rígt á Vestfjörðum í nokkurn tíma, svo að mælingarnar má túlka sem ástand sem hefur varað í einhvern tíma og er sambærilegt yfir stórt svæði. Þessar mælingar gefa frekar lága niðurstöðu miðað við önnur ár ef bornar eru saman rennslismælingar á láglendi og gögn úr vatnshæðarmælum, en eru þó notaðar hér til þess að meta trúverðugleika HBV-líkana af hlutvatnasviðum Ófeigfjarðarheiðar. Frekari upplýsingar um þessar rennslismælingar eru í greinar-gerð um rennslismælingar á Vestfjörðum (Stefanía G. Halldórsdóttir o.fl. 1999).

1.3 Uppbygging skýrslunnar

Í 2. kafla skýrslunnar er fjallað um HBV-líkanið og kynntar eru miklvægustu forsendur varðandi meðhöndlun úrkomu og hitastigs í líkaninu.

Kaflar 3 og 4 eru tileinkaðir HBV-rennslislíkönnum sem gerð voru af rennsli við vatnshæðarmæla í Þverá og Hvalá. Þar er að finna töflur sem sýna vatnsjöfnuð og fylgni mælinga og líkans. Í dálkunum undir fyrirsögninni „Vatnsjöfnuður“ eru

borin saman meðaltöl mælds og reiknaðs rennslis á þeim tímabilum innan viðkomandi vatnsárs sem mælingar á rennsli eru fyrirliggjandi (oft eru eyður í mæligögnum). Í töflunum eru fylgnisstuðlarnir R2 og R2log einnig settir fram, en þeir segja til um hversu vel líkönin ná rennslisferlinu. Vert er að geta þess að þeir segja ekki mikið um vatnsjöfnuð.

| Vatnsár | Vatnsjöfnuður | | | Fylgnistuðlar | |
|---------|--------------------------|----------------------------|------------|---------------|-------|
| | Mælt [m ³ /s] | Reikn. [m ³ /s] | hlfl mism. | R2 | R2log |
| 1976/77 | 2.02 | 2.11 | 0.04 | 0.48 | 0.09 |
| 1977/78 | 2.13 | 2.63 | 0.23 | 0.41 | 0.80 |
| 1978/79 | 2.00 | 1.93 | -0.04 | 0.60 | 0.61 |
| 1979/80 | 2.13 | 2.32 | 0.09 | 0.56 | 0.59 |
| 1980/81 | 2.10 | 2.31 | 0.10 | 0.53 | 0.75 |
| 1981/82 | 3.32 | 3.89 | 0.17 | 0.64 | 0.80 |
| 1982/83 | 3.48 | 4.02 | 0.16 | 0.68 | 0.78 |

Tafla 1.1 Tafla sem sýnir vatnsjöfnuð og fylgni raunverulegra mælinga og likans.

Súlurit sem sýnd eru í köflum um vatnasvið vatnshæðarmæla og hlutvatnasviða sýna meðalrennslí vatnsára, en þar sem veðurgögn fyrir allt árið 2001 lágu ekki fyrir, eru líkönin aðeins keyrð til 30. júní 2001. Því má gera ráð fyrir að tölur vegna vatnsársins 2000/01 breytist þegar frekari veðurgögn liggja fyrir.

Í köflum 5-6 er fjallað um hlutvatnasviðin, þar sem sýnd er hæðardreifing og mælt og reiknað rennsli borin saman.

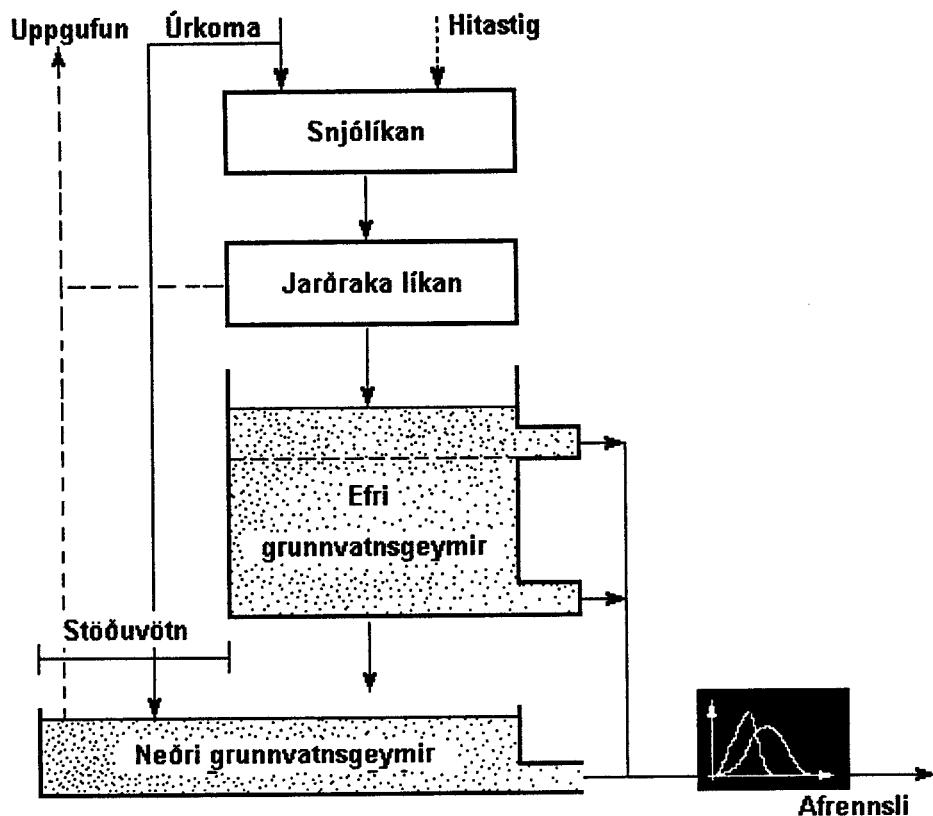
Í 7. kafla skýrslunar eru niðurstöður útreikninganna dregnar saman. Aftast í skýrslunni er viðauki sem inniheldur afrennsliskort af Ófeigfjarðarheiði og Langadalsströnd auk stuðlaskránnna fyrir hvert líkan um sig.

2 HBV-rennslislíkanið

Með HBV (Hydrologiska Byråns Vattenbalansavdelning) –rennslislíkani eru veðurþættir (hiti, úrkoma) notaðir til að herma eftir rennsli á ákveðnum mælistað yfir tiltekið tímabil. Líkanið er aðlagað mældu rennsli á tímabili þar sem til eru samhliða veður- og rennslisgögn. Með HBV-líkani er hægt að segja til um rennsli annars staðar á vatnasviðinu þar sem mælingar vantar. Einnig er hægt að áætla rennsli árinnar aftur í tímum á viðkomandi stað, fylla í eyður í gögnum og bæta mat á ístruflunum, og skapa grundvöll fyrir mati á afrennsli á nálægum vatnasviðum. HBV-líkanið hefur enn fremur verið notað til þess að spá fyrir um áhrif veðurfarsbreytinga á vatnafar, t.d. hækkanar hitastigs af völdum aukins magns gróðurhúsalofttegunda í andrúmsloftinu (Sælthun, 1996).

2.1 Uppbygging HBV-líkansins

HBV-líkanið skiptist í fjóra meginhluta: snjólíkan, jarðrakalíkan, efri grunnvatnsgeymi og neðri grunnvatnsgeymi, sbr. mynd 2.1. Mikilvægustu inntaksgögnin í HBV-líkanið eru sólarhringsgildi úrkому og hitastigs.

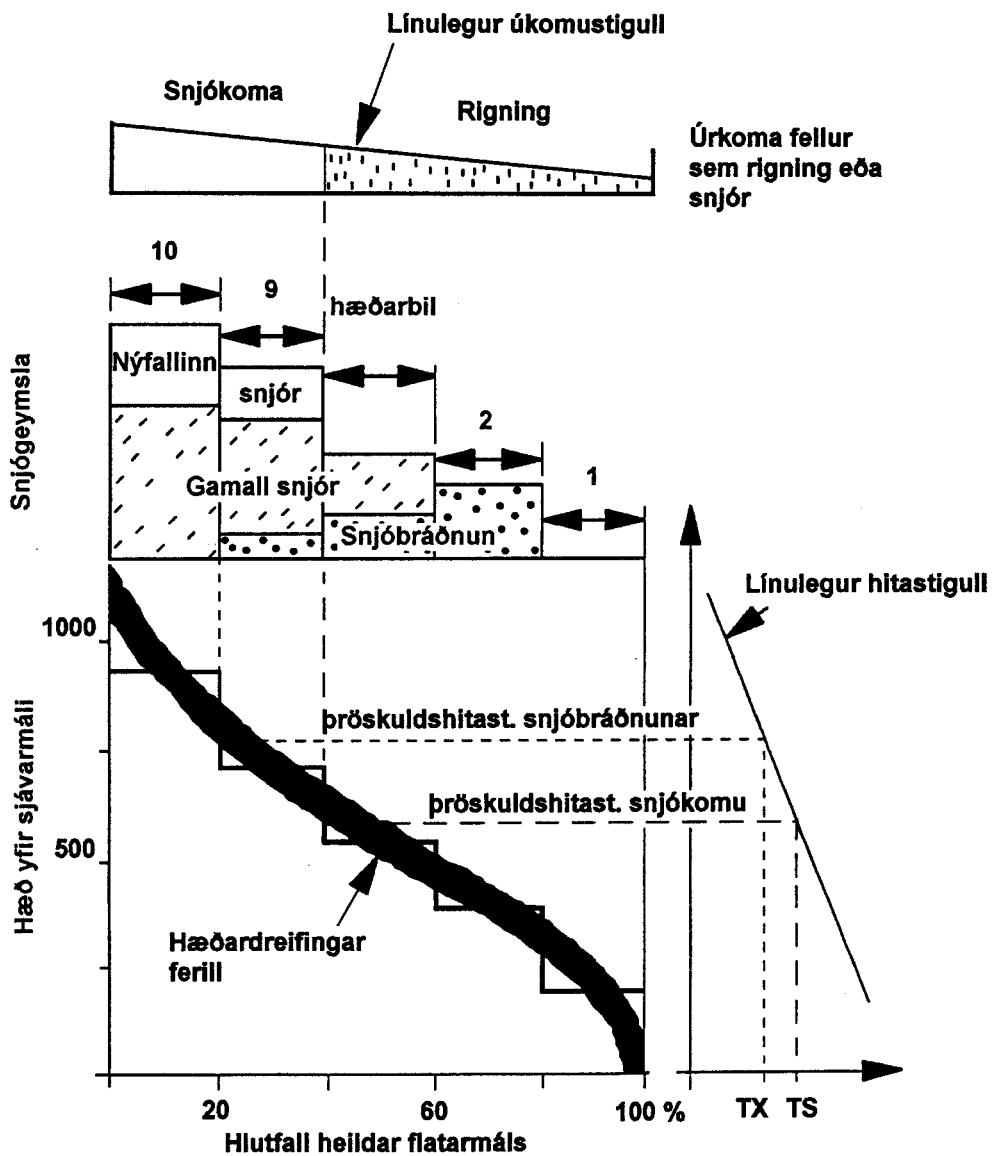


Mynd 2.1 Uppbygging HBV-líkansins (Killingtveit, Å., o.fl., 1995).

Vatnasviði sem er til athugunar er skipt niður í hæðarbil og er hinum fjórum hlutum líkansins beitt á hvert hæðarbil um sig.

Í snjólíkaninu er snjósöfnun og bráðun reiknuð út, en það fer eftir hitastigi hvort úrkoma er talin falla sem snjór eða rigning. Hitastigið á hverju hæðarbili ræðst af

hitastigi á viðmiðunarveðurstöðvum auk meðalhæðar þess yfir sjávarmáli. Í veðrahvolfinu lækkar hiti að meðaltali með hæð um $0,6^{\circ}\text{C}$ á hverja 100 metra, sem upp er farið. Þetta er þó breytilegt, og fer einkum eftir rakastigi og blöndun loftsins vegna vinds (Tveit, 1994). HBV-líkanið gerir ráð fyrir línulegum hitastigli, og gefur möguleika á að taka tillit til árstíðabundinna sveiflina í hitastigli. Ef hitastig á tilteknu hæðarbili er lægra en þróskuldshiti snjókomu (TS) fellur úrkoman sem snjór annars rigning, sbr. mynd 2.2. Snjóbráðnun á sér stað ef hitastig er hærra en þróskuldshiti snjóbráðnunar (TX).



Mynd 2.2 Uppbygging snjólikansins (Killingtveit, Å., o.fl, 1990).

Í líkaninu ræðst úrkoman á hverju hæðarbili af úrkoma á viðmiðunarveðurstöð og meðalhæð viðkomandi hæðarbils. Á Íslandi fellur úrkoma einkum þegar vindur stendur af hafi, sér í lagi í suðlægum áttum. Rakt og tiltölulega hlýtt loft berst yfir ströndina og er þvingað upp þegar það mætir hækjun í landslaginu. Við það kólnar

loftið, raki þéttist og úrkoma fellur. Við þessar aðstæður vex úrkoma með hæð, í vissum tilfellum allt upp í nokkra tugi prósentu fyrir hverja 100 m hækkun. Í HBV-líkaninu er gert ráð fyrir að þessi úrkomuaukning sé einfalt línuleg sbr. mynd 2.2 eða samsett úr tvemur línbútum.

Rigningarvatn og snjóbráð berst úr snjólíkaninu niður í jarðrakalíkanið sem reiknar út rakamettunarstig jarðvegsins, og út frá því uppgufun og leka til efri grunnvatnsgeymis. Efri grunnvatnsgeymirinn er notaður til að líkja eftir afrennsli af yfirborði vatnasviðs og leka til neðra grunnvatnsgeymis. Neðri grunnvatnsgeymir, sem einnig tekur til stöðuvatna, stjórnar grunnrennslinu í líkaninu (Sælthun, 1996).

2.2 Stuðlar notaðir í HBV-líkaninu

HBV-líkanið notar yfir 100 óháða stuðla, sem allir lýsa mismunandi vatnafræðilegum eiginleikum vatnasviðs, til þess að breyta úrkomu í afrennsli. Nokkrir stuðlanna eru ákvarðaðir út frá kortum af svæðinu, t.d. hæðardreifing og jökulhlutfall, en gildi flestra þeirra er ákvarðað með kerfisbundnum ágiskunum og endurteknum samanburði á rennslismælingum og niðurstöðum HBV-líkans fyrir eitthvert tiltekið tímabil. Tafla 2.1 sýnir yfirlit yfir nokkra mikilvægustu stuðlana.

| Stuðull | Hlutverk | Gildissvið á Glámu | Eining |
|---------|--|--------------------|------------|
| TX | þróskuldsgildi snjókomu | 0.1 – 1.2 | °C |
| TS | þróskuldsgildi snjóbráðunar | -0.9 – -0.2 | °C |
| CX | gráðudaga stuðull | 2.5 – 4.8 | mm/°C·dag |
| PKORR | leiðréttigarstuðull fyrir úrkomu | 0.58 – 1.16 | 1 |
| SKORR | leiðréttigarstuðull fyrir snjókomu | 1.06 – 1.30 | 1 |
| TTGRAD | hitastigull, dagar án úrkomu | -0.65 – -0.55 | °C / 100 m |
| TVGRAD | hitastigull, dagar með úrkomu | -0.54 – -0.50 | °C / 100 m |
| PGRAD | úrkomustigull, neðan H1 | 10% – 79% | 1 / 100 m |
| PGRAD1 | úrkomustigull, ofan H1 | 4% – 22% | 1 / 100 m |
| GRAD | Hæð H1, þar sem brot verður í úrkomustigli | 400 – 1000 | m y.s. |
| UZL | þróskuldsgildi fyrir afrennsli á yfirborði | 30 – 70 | mm |
| KUZ1 | geymisstuðull, efri grunnvatnsgeymir | 0.30 – 0.99 | 1/dag |
| KUZ | geymisstuðull, efri grunnvatnsgeymir | 0.06 – 0.25 | 1/dag |
| PERC | leki til neðra grunnvatnsgeymis | 0.8 – 8.5 | mm/dag |
| KLZ | geymisstuðull, neðri grunnvatnsgeymir | 0.001 – 0.020 | 1/dag |

Tafla 2.1 Yfirlit yfir nokkra mikilvæga stuðla í HBV-líkani

Mikilvægustu stuðlarnir eru þeir sem stjórna úrkomu og hitastigi, þeir sem stjórna bráðun og þeir sem breyta (seinka) afrennslinu í líkaninu. Margir fleiri stuðlar hafa áhrif á fylgni reiknaðs og mælds rennslis, t.d stuðlar sem lýsa jarðvegsraka, og uppgufun. Aðlögun líkansins að nýju svæði er fólgin í því að breyta stuðlunum hvað eftir annað og prófa sig þannig áfram.

Þegar HBV-líkanið er notað til þess að spá fyrir um dreifingu afrennslis með hæð innan vatnasviðs hafa stuðlar sem stjórna úrkomudreifingu í líkaninu afgerandi

áhrif á niðurstöðuna. Úrkomuleiðréttigarstuðullinn PKORR er stilltur þannig að meðalúrkoma við sjávarmál í líkaninu af viðkomandi vatnasviði verður sambærileg við mælda meðalúrkому á veðurstöð í nágrenni vatnasviðsins. Úrkomustiglarnir PGRAD og PGRAD1 eru stilltir þannig að samanlagt afrennsli skv. líkaninu verði jafnt mældu afrennsli, þ.e. vatnsjöfnuður stenst.

Stuðlarnir TTGRAD og TVGRAD stýra hitabreytingu með hæð. Þannig segir stuðullinn TTGRAD til um hversu mikið kólnar á hverja 100 metra þá daga sem engin úrkoma fellur. TVGRAD segir hins vegar til um hversu mikið kólnar á hverja 100 metra á úrkomudögum. Einnig eru stuðlar sem svo aftur leiðréttu þessa hitabreytingu eftir mánuði, með tilliti til TTGRAD og TVGRAD.

2.3 Hvernig líkanið er prófað

Útkoman úr HBV-líkaninu er reiknað rennsli, og eru gæði þess samanborið við mælt rennsli metin 1) með s.k. fylgnistuðlum, 2) með samanburði á línuritum með mældu og reiknuðu rennsli og 3) með samanburði á vatnsmagni (vatnsjöfnuði) skv. mælingum og líkani.

Fylgnistuðlar eru handhæg aðferð til að meta fylgni mælds og reiknaðs rennslis með einni tölu. Fylgnistuðullinn R2 er skilgreindur á eftirfarandi hátt:

$$R2 = \frac{\sum (Q_0 - \bar{Q}_0)^2 - \sum (Q_s - \bar{Q}_0)^2}{\sum (Q_0 - \bar{Q}_0)^2}$$

þar sem Q_0 er mælt rennsli
 \bar{Q}_0 er mælt meðalrennsli
 Q_s er rennsli samkvæmt líkani

(Nash og Sutcliffe, 1970).

R2 er næmur fyrir því að mæld og reiknuð hágildi séu svipuð og sýnir því hvort líkanið fylgi vel toppunum í rennslinu, þ.e. hárennslinu. Fylgnistuðullinn R2log er skilgreindur hliðstætt R2 nema miðað er við lógaritma af rennslinu. Hann sýnir því betur en R2 hversu vel líkanið fylgir lágrennslinu (grunnrennsli) (Sælthun, 1995). Við aðlögun líkans að rennslismælingum er reynt að láta fylgnistuðlana R2 og R2log ná hærra gildi en 0.60.

Vatnsjöfnuður er skilgreindur sem mismunur reiknaðs og mælds rennslis. Hann er neikvæður sýni líkanið of lítið rennsli miðað við mælingarnar á tilteknu tímabili, en jákvæður ef rennslið er of mikið. Vatnsjöfnuður er einungis reiknaður út fyrir þau tímabil þar sem tiltækjar eru mælingar á rennsli. Hlutfallslegur vatnsjöfnuður miðast við mælt rennsli, þ.e.

$$\text{hlutfallslegur vatnsjöfnuður} = \frac{Q_{\text{reiknað}} - Q_{\text{mælt}}}{Q_{\text{mælt}}}$$

2.4 Veðurgögn

Sólarhringsgildi úrkomu og hitastigs eru nauðsynleg inntaksgögn í HBV-líkanið. Notast var við úrkomumælingar frá fjórum og hitamælingar frá þrem veðurstöðvum, þ.e. veðurstöðvunum á Galtarvita(U+H), Æðey(U+H), á Gjögri(U+H), og á Hrauni á Skaga(U). Eyður í gögnunum voru fylltar með hjálp línulegrar aðhvarfsgreiningar.

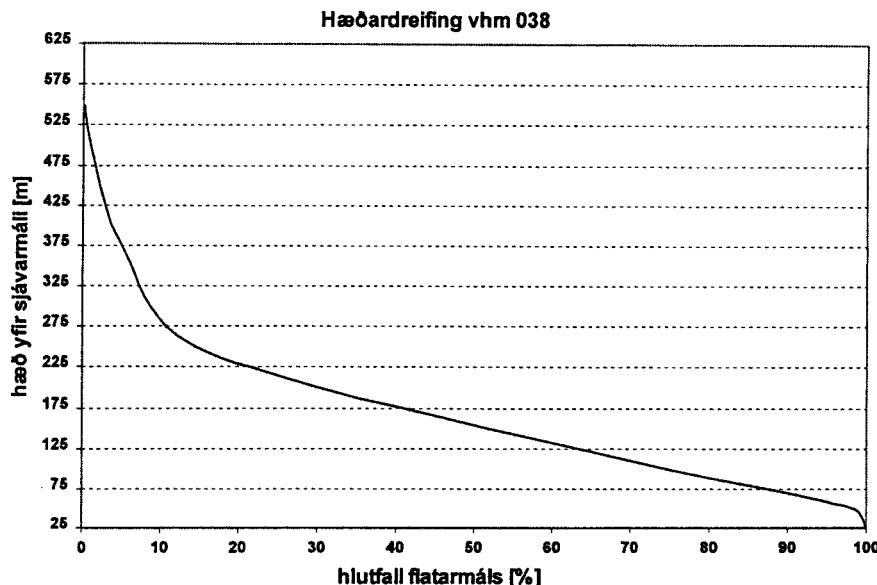
Tafla 2.2 sýnir yfirlit yfir vægi veðurstöðva í líkönnum.

| Veðurstöð | Hvalá | pverá |
|-------------------|-------|-------|
| Urkomustöð | | |
| Galtarviti | 25% | |
| Æðey | 50% | |
| Gjögur | 85% | 25% |
| Hraun á Skaga | 15% | |
| Hitastöð | | |
| Galtarviti | 30% | |
| Æðey | 70% | |
| Gjögur | 100% | |

Tafla 2.2 Vægi veðurstöðva.

3 Þverá

Vatnamælingar hófu rekstur vhm 38 í Þverá 1947. Mælirinn er í 25 m.y.s. og er flatarmál vatnasviðsins um $42,7 \text{ km}^2$, og er hæðardreifing vatnasviðsins teiknuð á mynd 3.1.



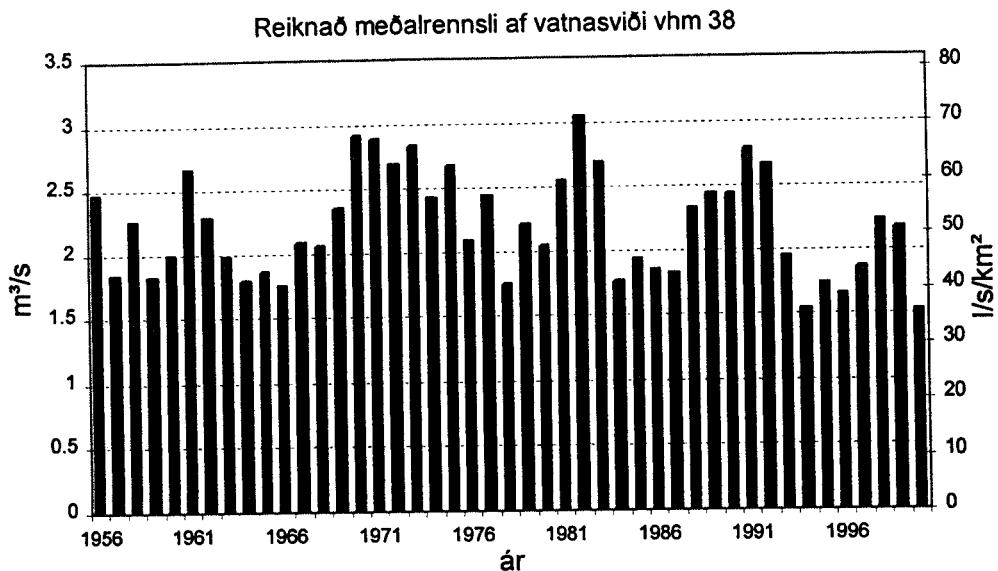
Mynd 3.1 Hæðardreifing vatnasviðs vhm 38.

Við gerð HBV rennslislíkans af vhm 38 var stuðst við rennslisgögn frá tímabilinu 1.9.1976 til 31.8.1983. Gögnin eru almennt nokkuð góð, en samt er eitthvað um eyður í þeim vegna ísatruflana eða annars. Tafla 3.1 sýnir yfirlit yfir fylgnistuðla og vatnsjöfnuð á aðlögunartímabilinu. Í dálkunum undir fyrirsögninni „Vatnsjöfnuður“ eru borin saman meðaltöl mælds og reiknaðs rennslis á þeim tímabilum innan viðkomandi vatnsárs sem mælingar á rennslí eru fyrirliggjandi (oft eru eyður í mæligögnum).

| Vatnsár | Vatnsjöfnuður | | | Fylgnistuðlar | |
|---------|--------------------------|----------------------------|------------|----------------|-------------------|
| | Mælt [m ³ /s] | Reikn. [m ³ /s] | hlfl mism. | R ² | R ^{2log} |
| 1976/77 | 2.02 | 2.11 | 0.04 | 0.48 | 0.09 |
| 1977/78 | 2.13 | 2.63 | 0.23 | 0.41 | 0.80 |
| 1978/79 | 2.00 | 1.93 | -0.04 | 0.60 | 0.61 |
| 1979/80 | 2.13 | 2.32 | 0.09 | 0.56 | 0.59 |
| 1980/81 | 2.10 | 2.31 | 0.10 | 0.53 | 0.75 |
| 1981/82 | 3.32 | 3.89 | 0.17 | 0.64 | 0.80 |
| 1982/83 | 3.48 | 4.02 | 0.16 | 0.68 | 0.78 |

Tafla 3.1 Yfirlit yfir vatnsjöfnuð og fylgni.

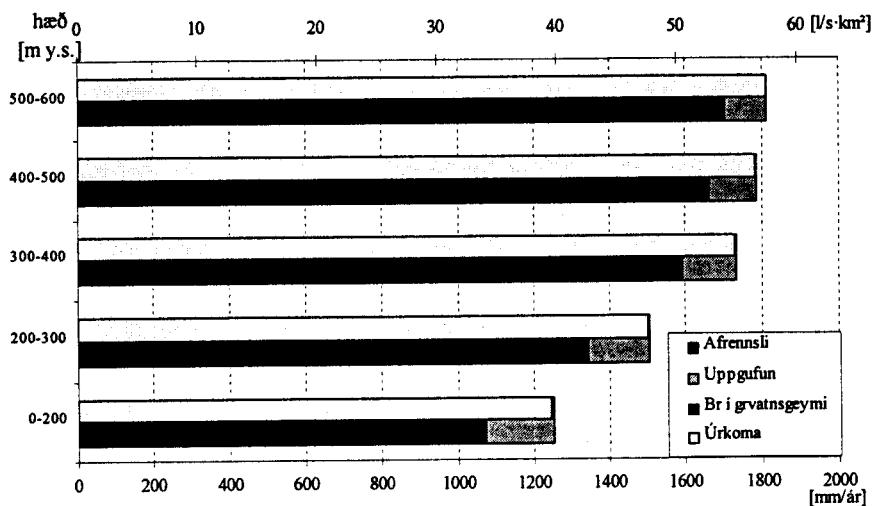
Mynd 3.2 sýnir meðalrennslí vatnsárranna 1956/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 3.2 Meðalrennslí vatnsárranna 1961/62 til 1998/99 skv. líkani.

Meðalrennslí á tímabilinu skv. HBV líkaninu er $2,2 \text{ m}^3/\text{s}$ eða $51,6 \text{ l/s} \cdot \text{km}^2$. Vatnsmestu árin eru vatnsárin 1982/83 með $71 \text{ l/s} \cdot \text{km}^2$, en hið vatnsminnsta er árið 1966/67 með $41,2 \text{ l/s} \cdot \text{km}^2$ meðalafrennslí.

Vatnsvíði vhm 38 var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 3.3 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnsvíðinu.

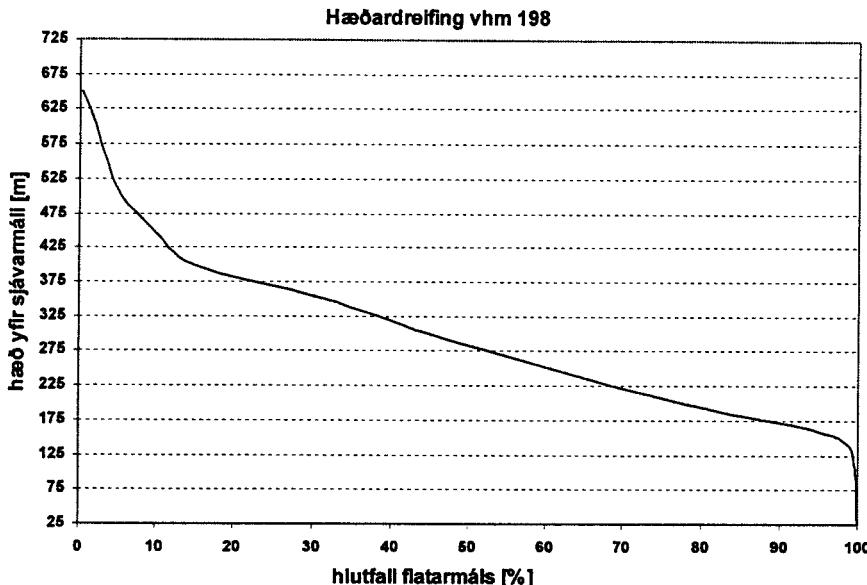


Mynd 3.3 Vatnsjöfnuður á hæðarbilum vatnsvíðs vhm 38.

Skv. líkaninu vex úrkoma um rúmlega 22 % við hverja 100 m hæðaraukningu á neðstu hæðarbilunum, en ofar dregur úr vextinum.

4 Hvalá

Vatnamælingar hófu rekstur vhm 198 í Hvalá 1976. Mælirinn er í 25 m y.s. og er flatarmál vatnasviðsins um 178,3 km². Hæðardreifing vatnasviðsins er teiknuð á mynd 4.1.



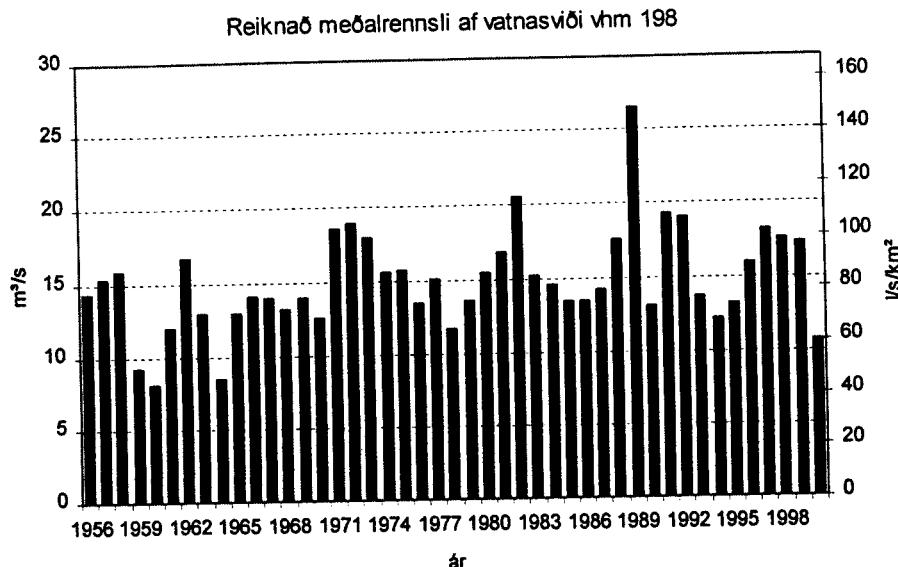
Mynd 4.1 Hæðardreifing vatnasviðs vhm 198.

Við gerð HBV rennslislíkans af vhm 198 var stuðst við rennslisgögn frá tímabilinu 1.9.1976 til 31.8.1983. Mikið er um eyður í gögnunum og þá sérstaklega yfir vetrarmánuðina, aðallega vegna ísatruflana. Tafla 4.1 sýnir yfirlit yfir fylgnistuðla og vatnsjöfnuð á aðlögunartímabilinu. Í dálkunum undir fyrirsögninni „Vatnsjöfnuður“ eru borin saman meðaltöl mælds og reiknaðs rennslis á þeim tímabilum innan viðkomandi vatnsárs sem mælingar á rennslí eru fyrirliggjandi (oft eru eyður í mæligögnum).

| Vatnsár | Vatnsjöfnuður | | | Fylgnistuðlar | |
|---------|--------------------------|----------------------------|------------|----------------|-------------------|
| | Mælt [m ³ /s] | Reikn. [m ³ /s] | hlfl mism. | R ² | R ^{2log} |
| 1976/77 | 17.49 | 20.44 | 0.17 | 0.67 | 0.68 |
| 1977/78 | 22.11 | 23.48 | 0.06 | 0.65 | 0.70 |
| 1978/79 | 19.34 | 16.89 | -0.13 | 0.42 | 0.73 |
| 1979/80 | 23.14 | 19.01 | -0.18 | 0.26 | 0.11 |
| 1980/81 | 19.99 | 27.37 | 0.37 | 0.48 | 0.42 |
| 1981/82 | 36.28 | 32.95 | -0.09 | 0.48 | 0.57 |
| 1982/83 | 33.77 | 39.32 | 0.16 | 0.77 | 0.68 |

Tafla 4.1 Yfirlit yfir vatnsjöfnuð og fylgni.

Mynd 4.2 sýnir meðalrennslí vatnsáranna 1956/57 til 2000/01, en það er fundið út frá heilum rennslisröðum skv líkani.

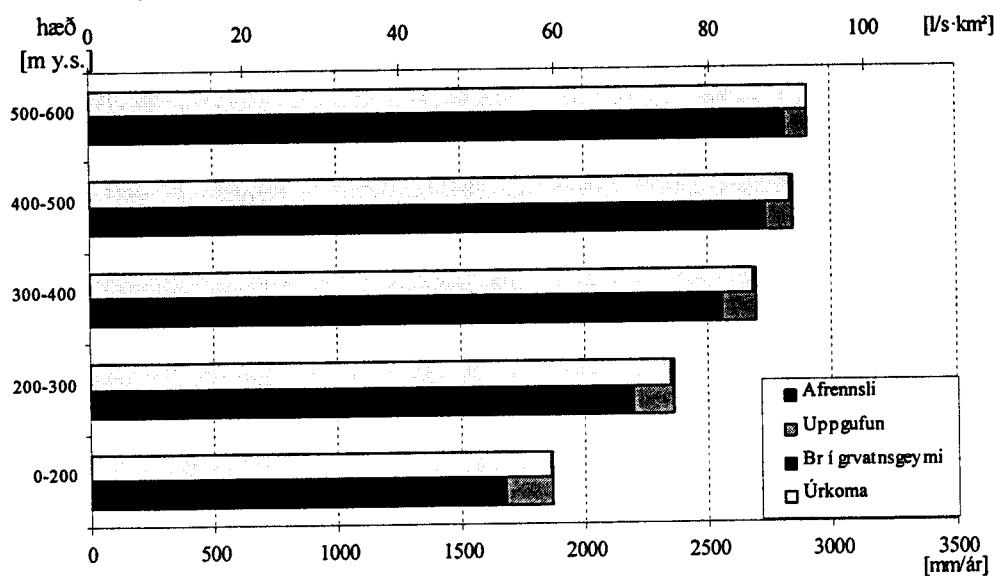


Mynd 4.2 Meðalrennsli vatnsáranna 1956/57 til 2000/01 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $14.9 \text{ m}^3/\text{s}$ eða 83.6 l/s/km^2 .

Vatnsmestu árin eru vatnsárin 1989/90 með 148.5 l/s-km^2 , en hið vatnsminnsta er árið 1960/61 með 45.6 l/s/km^2 meðalafrénnslí.

Vatnasviði vhm 198 var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 198 keyrt á hverju þessara hæðarbila. Á mynd 4.3 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnasviðinu.



Mynd 4.3 Vatnsjöfnuður á hæðarbilum vatnasviðs vhm 38.

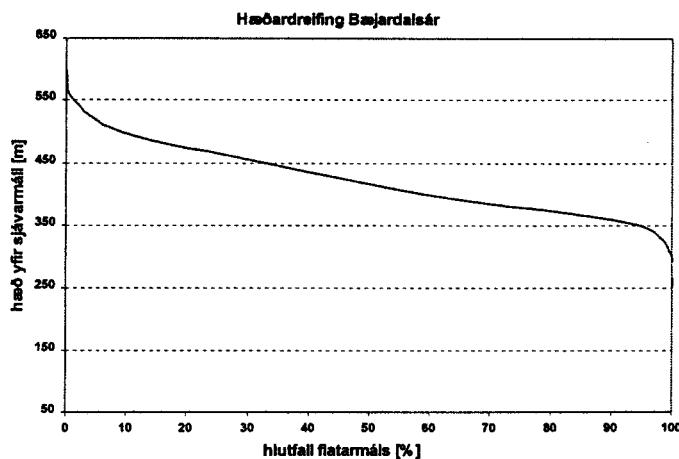
Skv. líkaninu vex úrkoma um rúmlega 26% við hverja 100 m hæðaraukningu á neðstu hæðarbilunum, en ofar dregur úr vextinum.

5 Hlutvatnasvið á Langadalsströnd, auk Selár í Steingrímsfirði

Líkan af vhm 38 var notað til að finna afrennsli af vatnasviðum Bæjardalsár, Hvannadalsár, Hafnardsalsár, Blævardalsár og Hraundalsár á Langadalsströnd. Bæði líkan af Þverá og Hvalá voru prófuð á vatnasviði Selár í Steingrímsfirði og kom í ljós eftir samanburð á mældu og reiknuðu rennsli að líkan Þverár átti þar betur við.

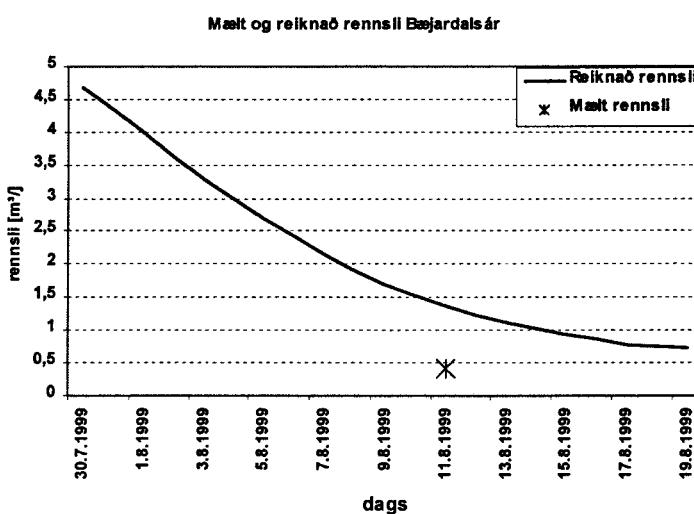
5.1 Bæjardalsá

Stærð vatnasviðs Bæjardalsár er $38,81 \text{ km}^2$ og er hæðardreifing þess sýnd á mynd 5.1.



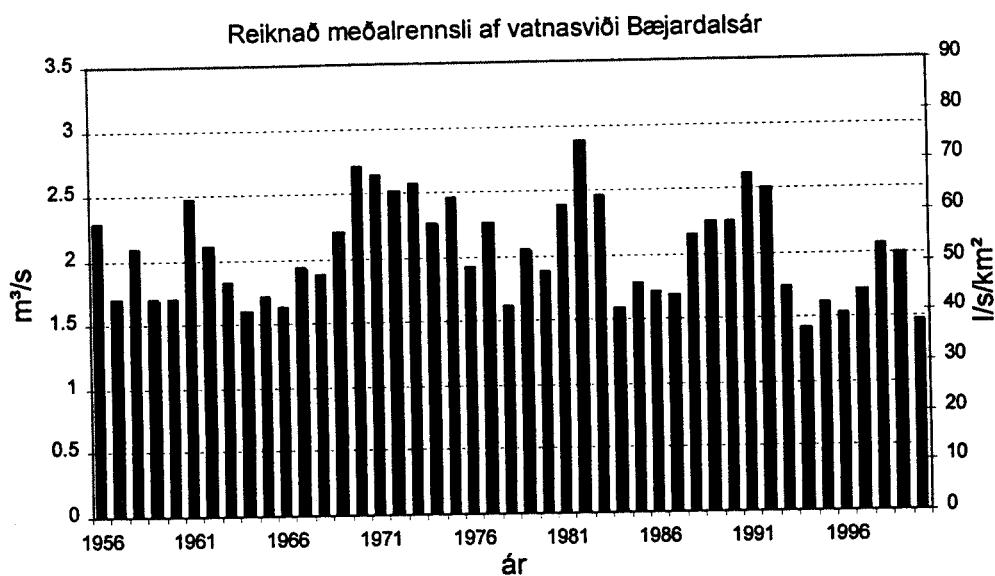
Mynd 5.1 Hæðardreifing vatnasviðs Bæjardalsár.

Mynd 5.2 sýnir samanburð á mældu og reiknuðu rennsli Bæjardalsár.



Mynd 5.2 Samanburður á mældu og reiknuðu rennsli.

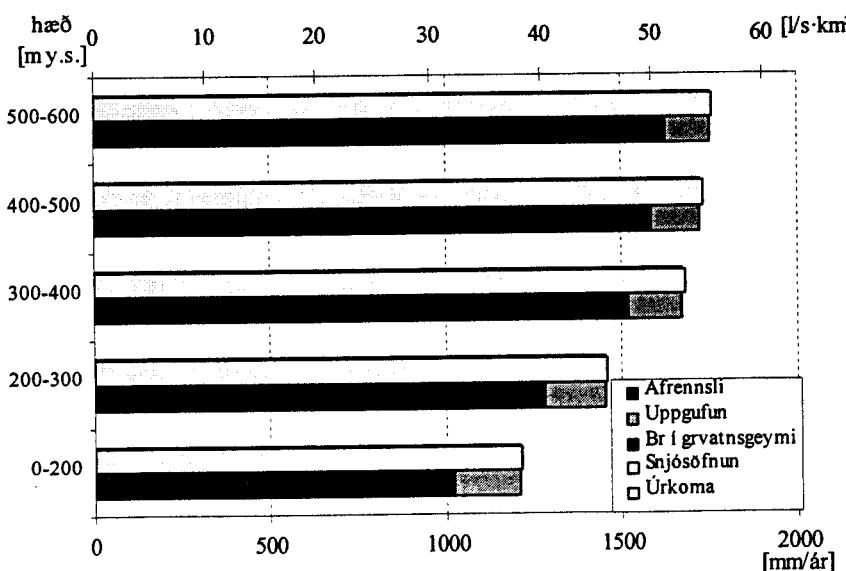
Mynd 5.3 sýnir meðalrennsli vatnsárranna 1956/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 5.3 Meðalrennsli vatnsárranna 1961/62 til 1998/99 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $2 m^3/s$ eða $52 l/s \cdot km^2$. Vatnsmestu árin eru vatnsárin 1982/83 með $74 l/s \cdot km^2$, en hið vatnsminnsta er árið 1994/95 með $37 l/s \cdot km^2$ meðalafrennsli.

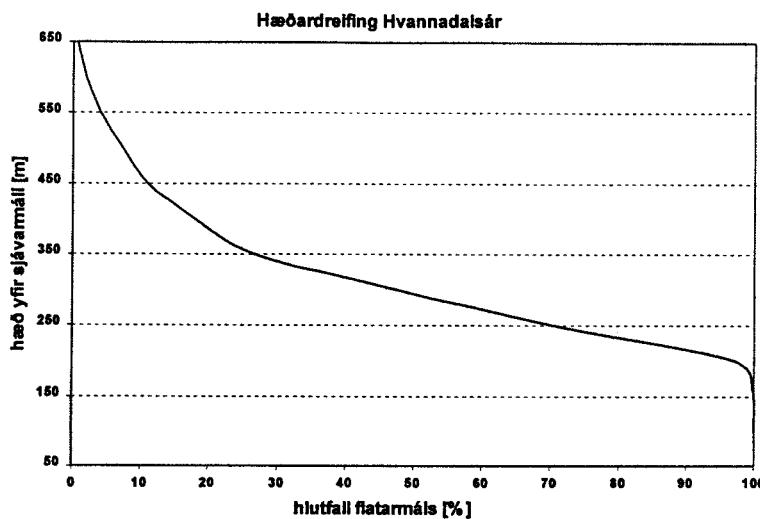
Vatnasviði Bæjardalsár var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 5.4 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnasviðinu.



Mynd 5.4 Vatnsjöfnuður á hæðarbilum vatnasviðs Bæjardalsár.

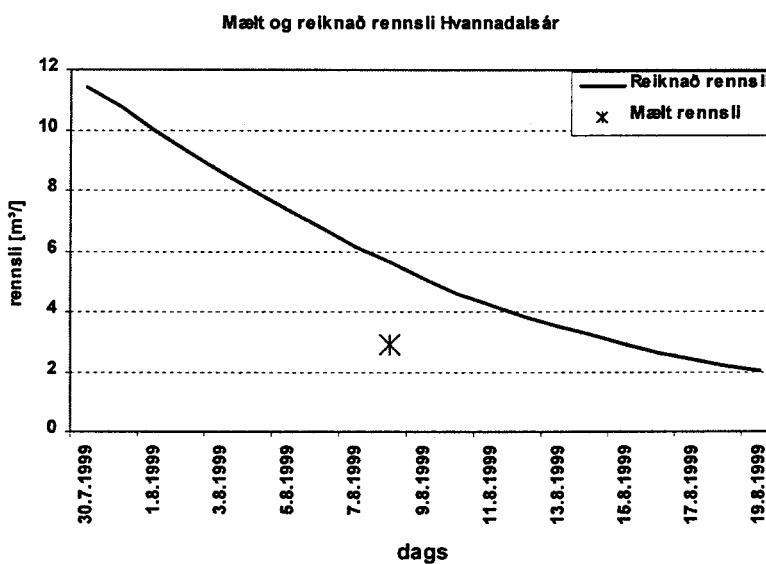
5.2 Hvannadalsá

Stærð vatnsviðs Hvannadalsár er 83,12 km² og er hæðardreifing þess sýnd á mynd 5.2.



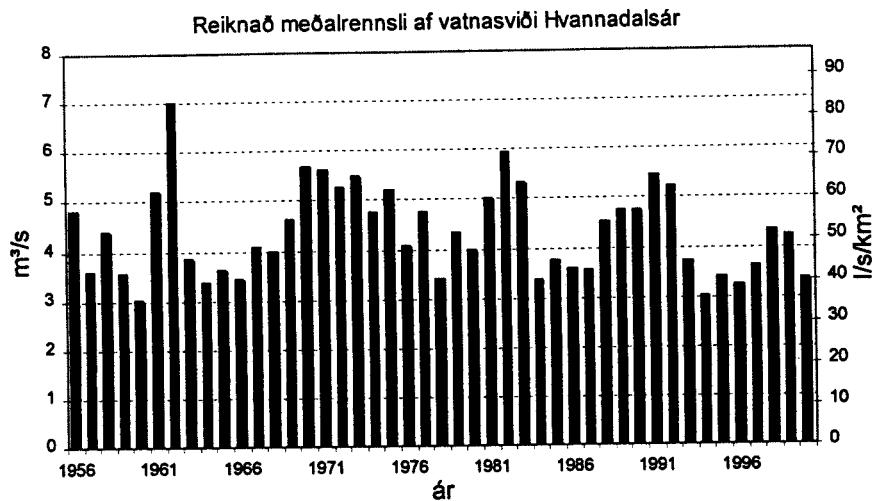
Mynd 5.5 Hæðardreifing vatnsviðs Hvannadalsár.

Mynd 5.6 sýnir samanburð á mældu og reiknuðu rennsli Hvannadalsár.



Mynd 5.6 Samanburður á mældu og reiknuðu rennsli.

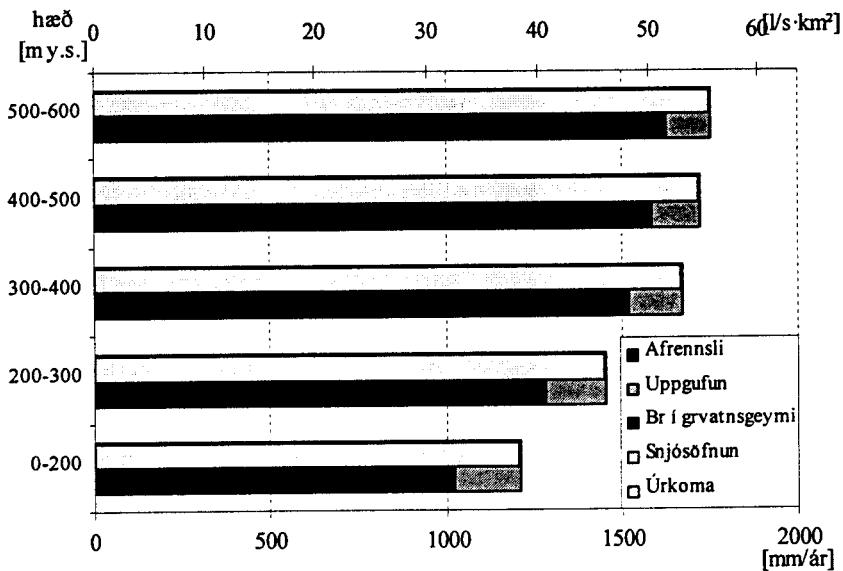
Mynd 5.7 sýnir meðalrennsli vatnsáranna 1956/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 5.7 Meðalrennsli vatnsáranna 1961/62 til 1998/99 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $4,3 \text{ m}^3/\text{s}$ eða $51 \text{ l/s}\cdot\text{km}^2$. Vatnsmestu árin eru vatnsárin 1962/63 með $84 \text{ l/s}\cdot\text{km}^2$, en hið vatnsminnsta er árið 1960/61 með $36 \text{ l/s}\cdot\text{km}^2$ meðalafrennsli.

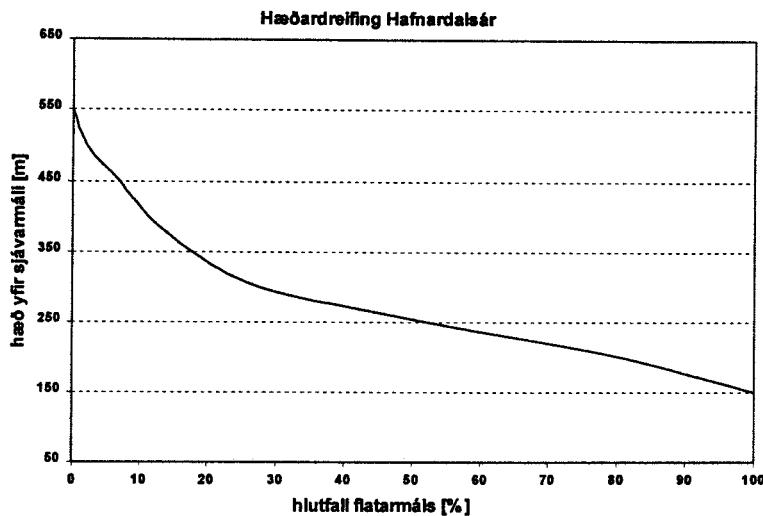
Vatnasviði Hvannadalsár var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 5.8 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnasviðinu.



Mynd 5.8 Vatnsjöfnuður á hæðarbilum vatnasviðs Hvannadalsár.

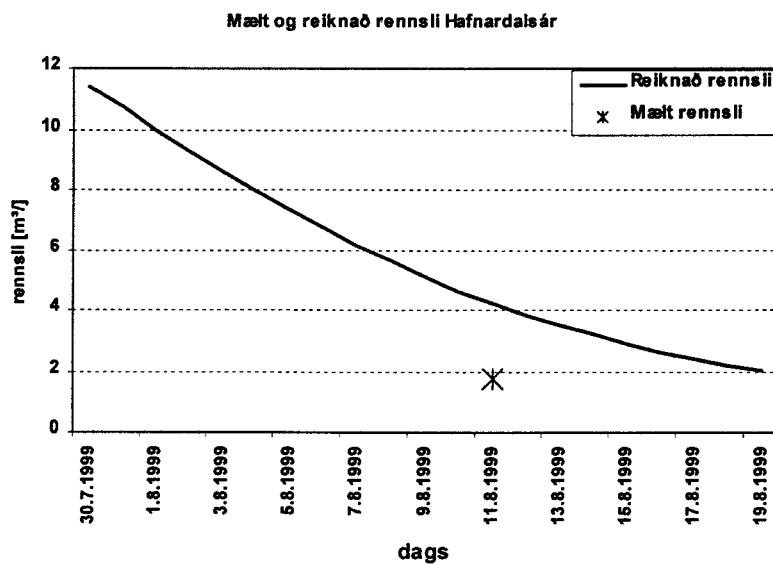
5.3 Hafnardalsá

Stærð vatnasviðs Hafnardalsár er $37,85 \text{ km}^2$ og er hæðardreifing þess sýnd á mynd 5.3.



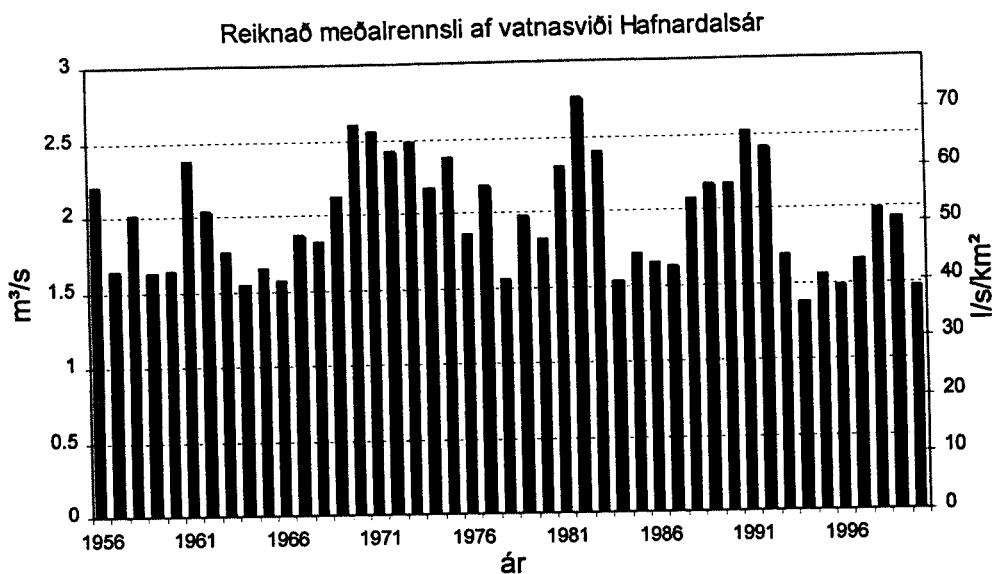
Mynd 5.9 Hæðardreifing vatnasviðs Hafnardalsár.

Mynd 5.10 sýnir samanburð á mældu og reiknuðu rennsli Hafnardalsár.



Mynd 5.10 Samanburður á mældu og reiknuðu rennsli.

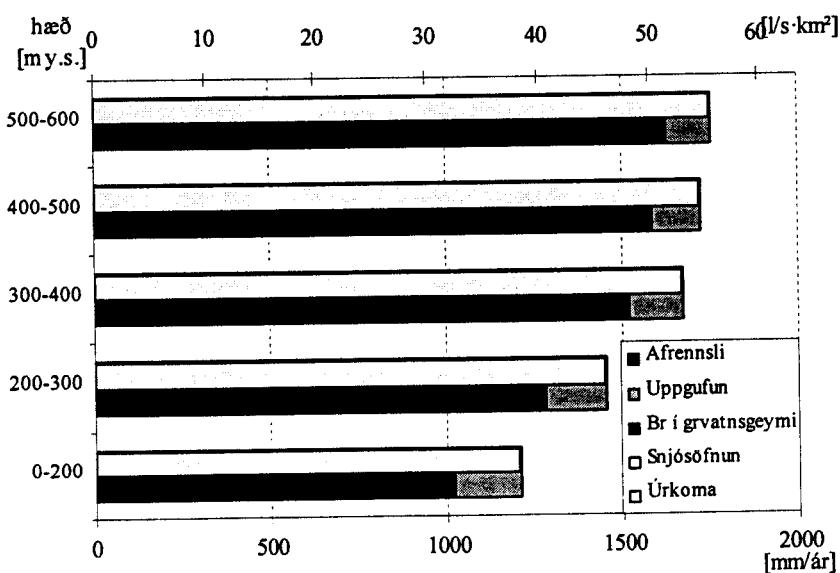
Mynd 5.11 sýnir meðalrennsli vatnsárranna 1956/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 5.11 Meðalrennsli vatnsárranna 1961/62 til 1998/99 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $2 \text{ m}^3/\text{s}$ eða $52 \text{ l/s} \cdot \text{km}^2$. Vatnsmestu árin eru vatnsárin 1982/83 með $72,5 \text{ l/s} \cdot \text{km}^2$, en hið vatnsminnsta er árið 1994/95 með $36 \text{ l/s} \cdot \text{km}^2$ meðalafrennsli.

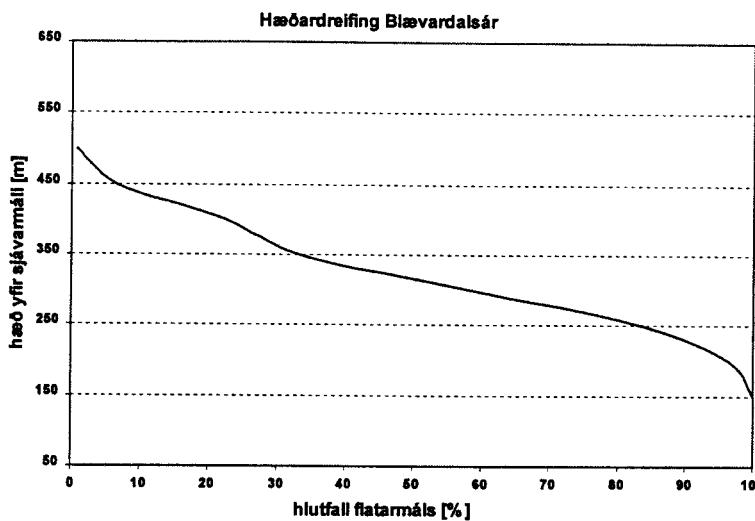
Vatnasviði Hafnardsalsár var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 5.12 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnasviðinu.



Mynd 5.12 Vatnsjöfnuður á hæðarbilum vatnasviðs Hafnardsárs.

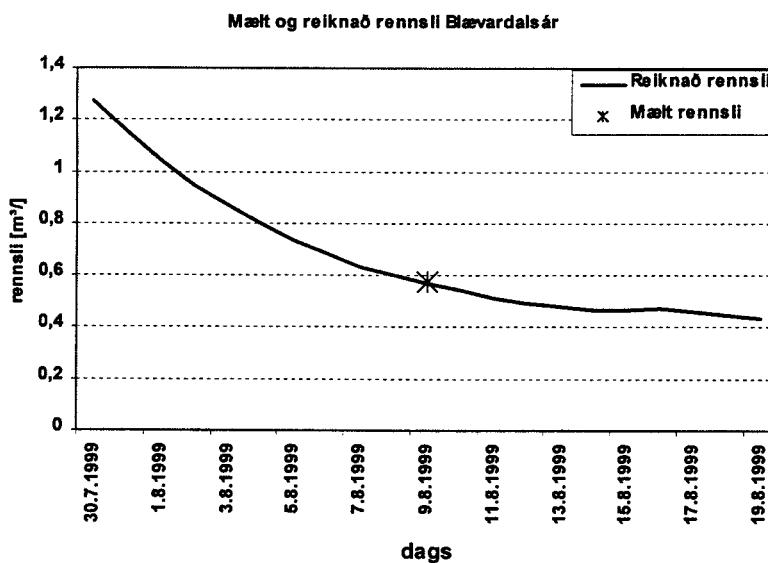
5.4 Blævardalsá

Stærð vatnsviðs Blævardalsár er $29,19 \text{ km}^2$ og er hæðardreifing þess sýnd á mynd 5.1.



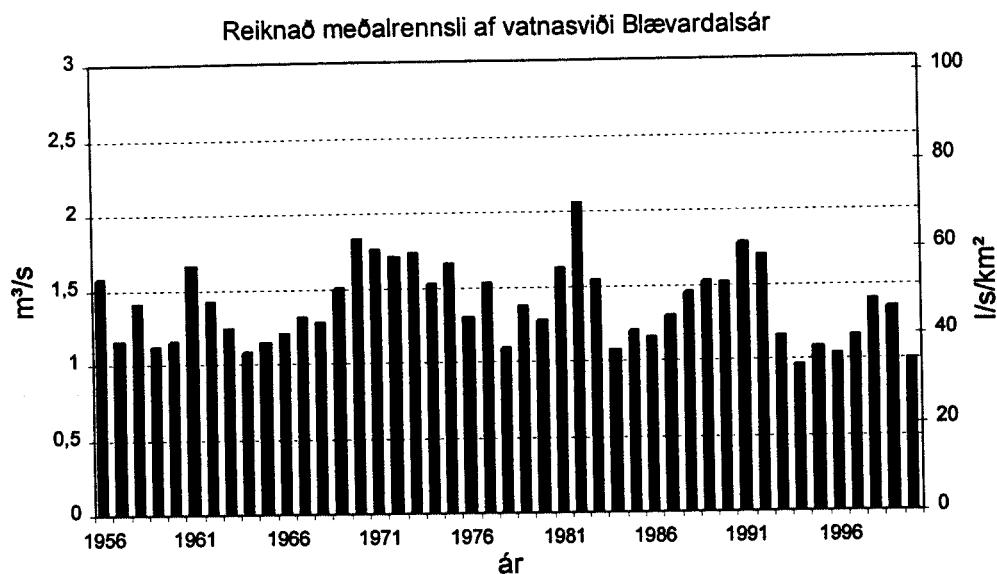
Mynd 5.13 Hæðardreifing vatnsviðs Blævardalsár.

Mynd 5.14 sýnir samanburð á mældu og reiknuðu rennsli Blævardalsár.



Mynd 5.14 Samanburður á mældu og reiknuðu rennsli.

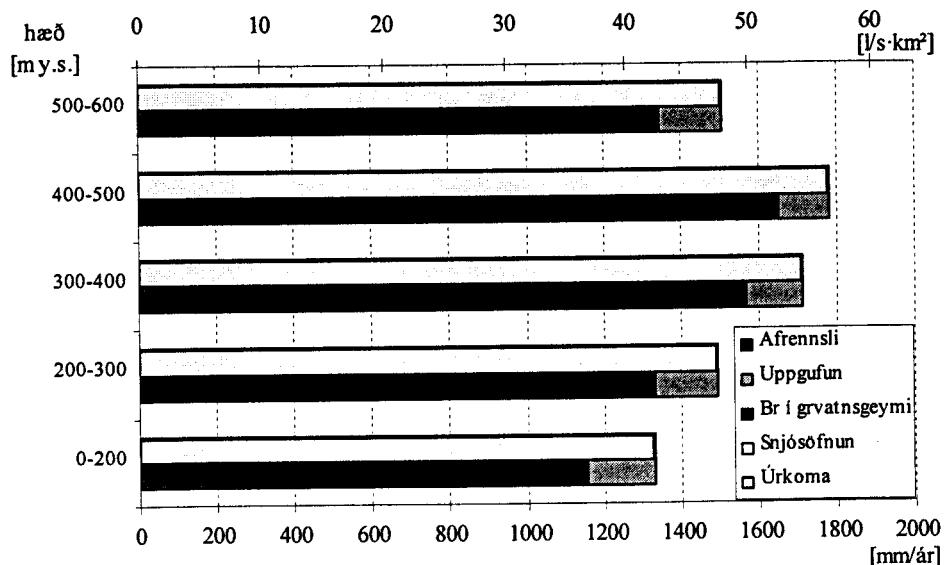
Mynd 5.15 sýnir meðalrennsli vatnsáranna 1956/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 5.15 Meðalrennsli vatnsáranna 1961/62 til 1998/99 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $1,4 \text{ m}^3/\text{s}$ eða $47 \text{ l/s}\cdot\text{km}^2$. Vatnsmestu árin eru vatnsárin 1982/83 með $70,6 \text{ l/s}\cdot\text{km}^2$, en hið vatnsminnsta er árið 1994/95 með $33 \text{ l/s}\cdot\text{km}^2$ meðalafrennsli.

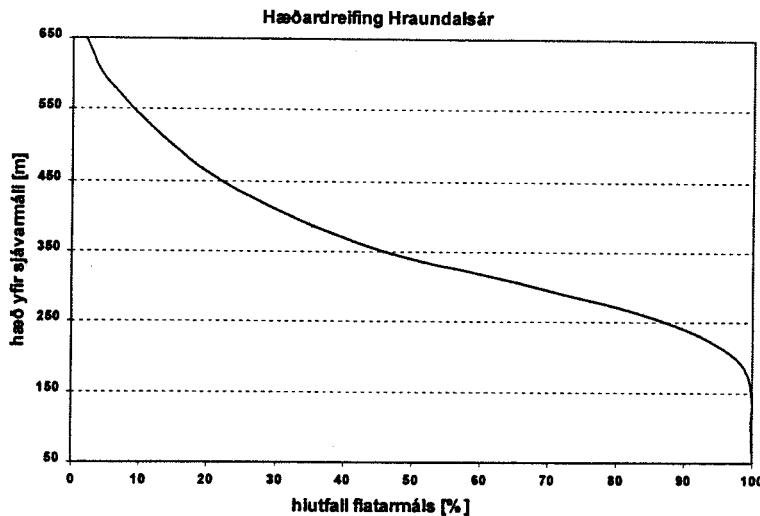
Vatnasviði Blævardalsár var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 5.16 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnasviðinu.



Mynd 5.16 Vatnsjöfnuður á hæðarbilum vatnasviðs Blævardalsár.

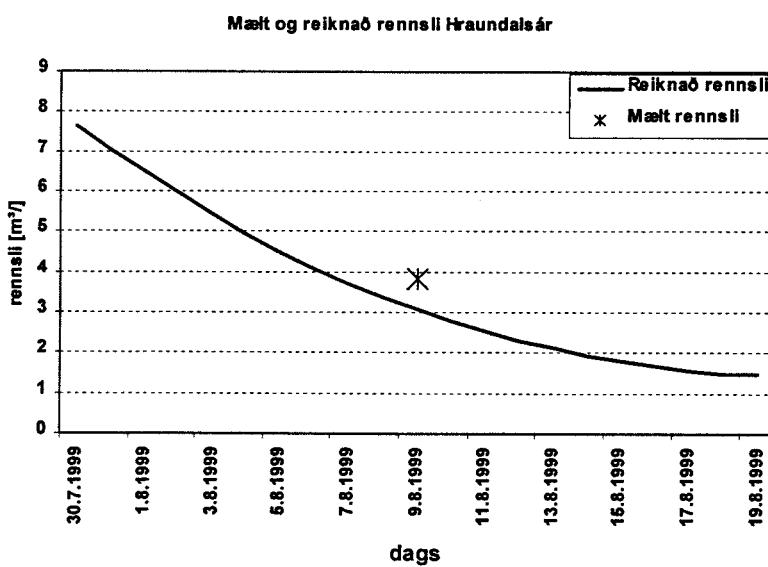
5.5 Hraundalsá

Stærð vatnasviðs Hraundalsár er $75,88 \text{ km}^2$ og er hæðardreifing þess sýnd á mynd 5.1.



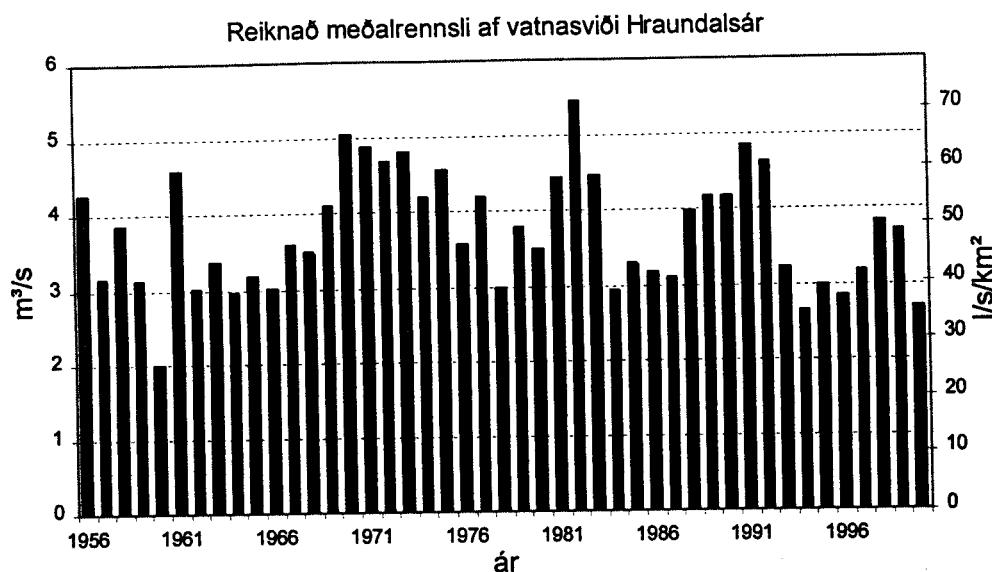
Mynd 5.17 Hæðardreifing vatnasviðs Hraundalsár.

Mynd 5.18 sýnir samanburð á mældu og reiknuðu rennsli Hraundalsár.



Mynd 5.18 Samanburður á mældu og reiknuðu rennsli.

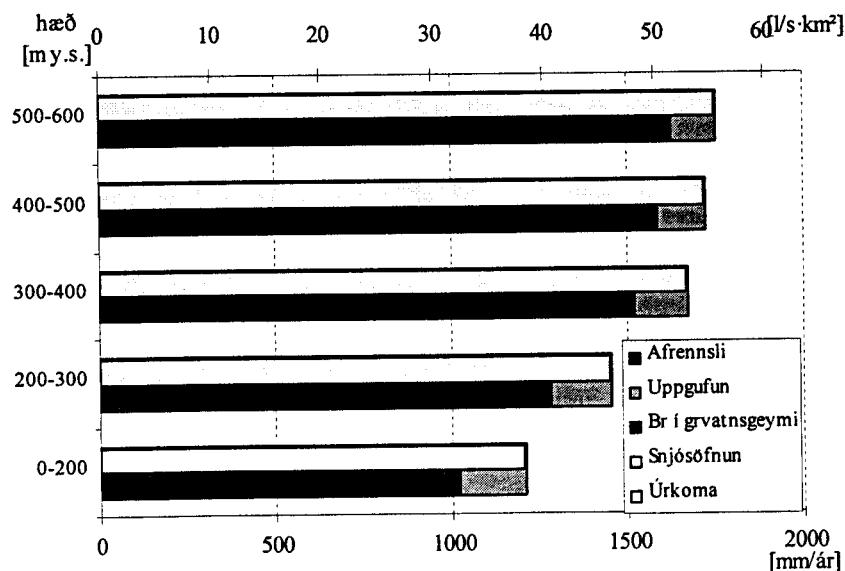
Mynd 5.19 sýnir meðalrennsli vatnsáranna 1956/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 5.19 Meðalrennsli vatnsáranna 1961/62 til 1998/99 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $3,8 m^3/s$ eða $50 l/s \cdot km^2$. Vatnsmestu árin eru vatnsárin 1982/83 með $71,6 l/s \cdot km^2$, en hið vatnsminnsta er árið 1960/61 með $26 l/s \cdot km^2$ meðalafrennsli.

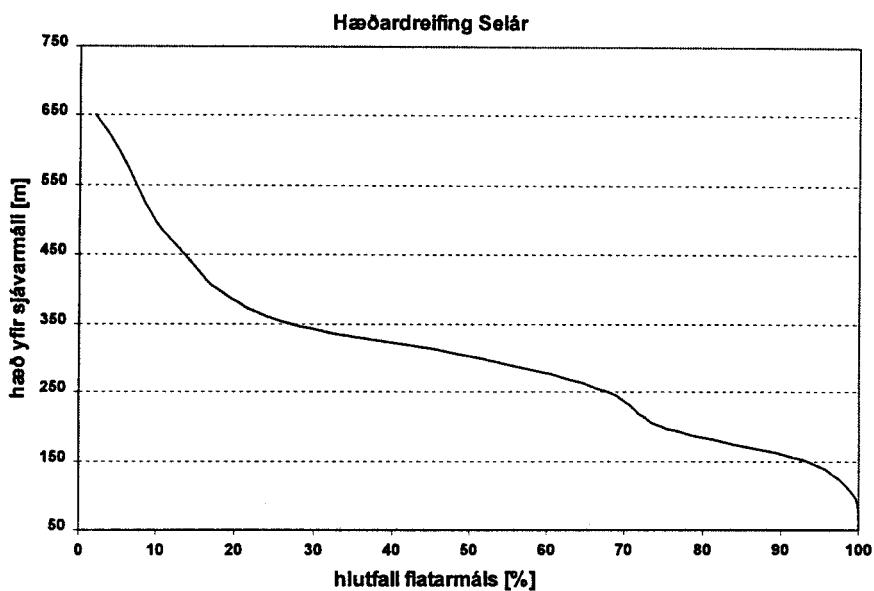
Vatnasviði Hraundalsár var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 5.20 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnasviðinu.



Mynd 5.20 Vatnsjöfnuður á hæðarbilum vatnasviðs Hraundalsár.

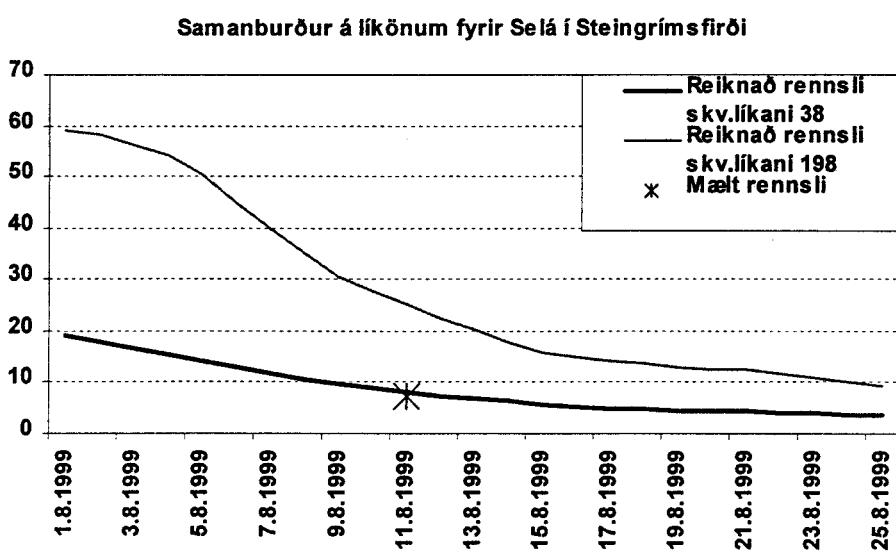
5.6 Selá í Steingrímsfirði

Stærð vatnasviðs Selár er 203,58 km² og er hæðardreifing þess sýnd á mynd 5.21.



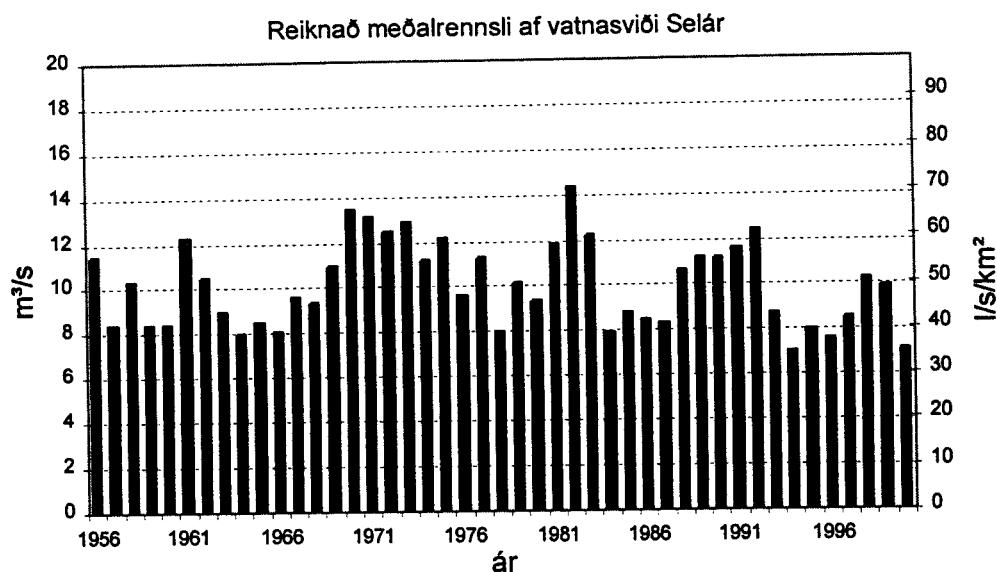
Mynd 5.22 Hæðardreifing vatnasviðs Selár.

Mynd 5.23 sýnir samanburð á mældu og reiknuðu rennsli Selár.



Mynd 5.23 Samanburður á mældu og reiknuðu rennsli.

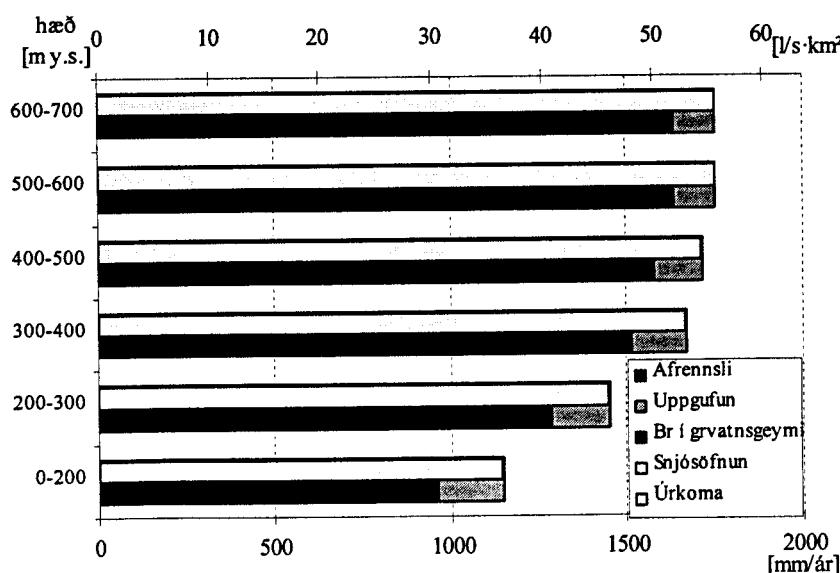
Mynd 5.24 sýnir meðalrennsli vatnsáranna 1956/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 5.24 Meðalrennsli vatnsáranna 1961/62 til 1998/99 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $10 \text{ m}^3/\text{s}$ eða 50 l/s/km^2 . Vatnsmestu árin eru vatnsárin 1982/83 með 71 l/s/km^2 , en hið vatnsminnsta er árið 1994/95 með 35 l/s/km^2 meðalafrennsli.

Vatnasviði Selár var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 5.25 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnasviðinu.



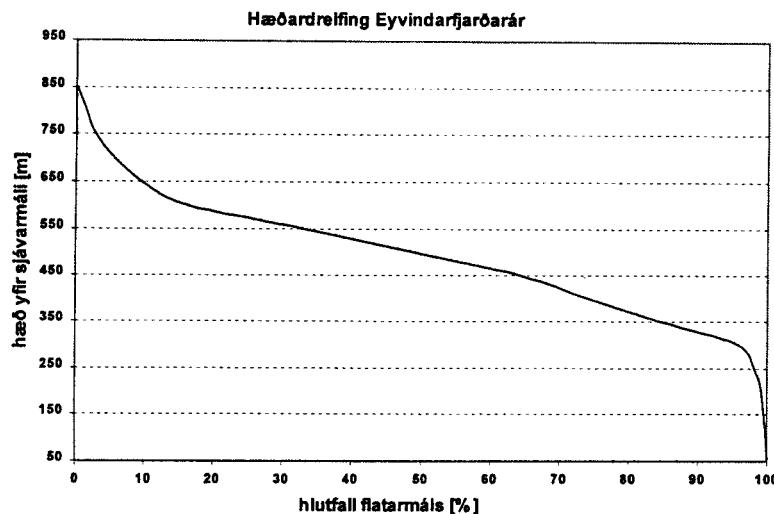
Mynd 5.25 Vatnsjöfnuður á hæðarbilum vatnasviðs Selár.

6 Hlutvatnasvið á Ófeigsfjarðarheiði

Líkan 198 var notað fyrir vatnasvið Eyvindarfjarðarár, Húsár og Reykjafjarðarár.

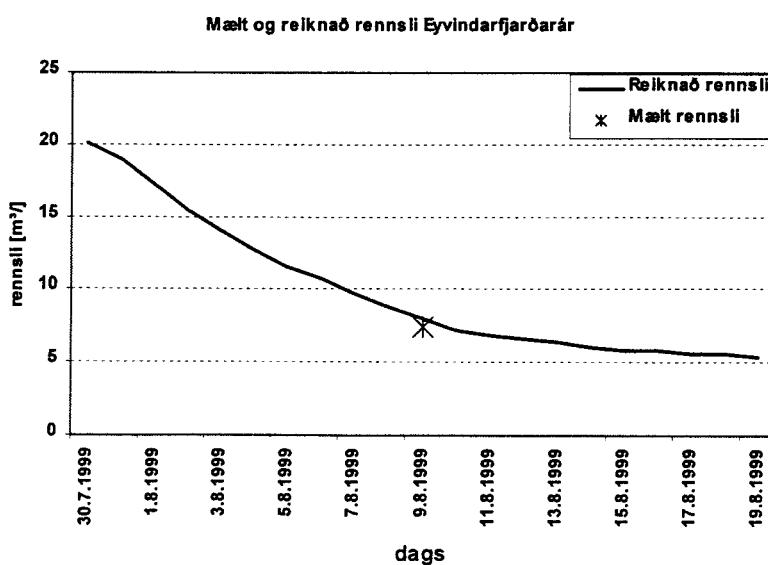
6.1 Eyvindarfjarðará

Vatnasvið Eyvindarfjarðarár er 78 km^2 og sýnir mynd 6.1 sýnir hæðardreifingu vatnasviðsins.



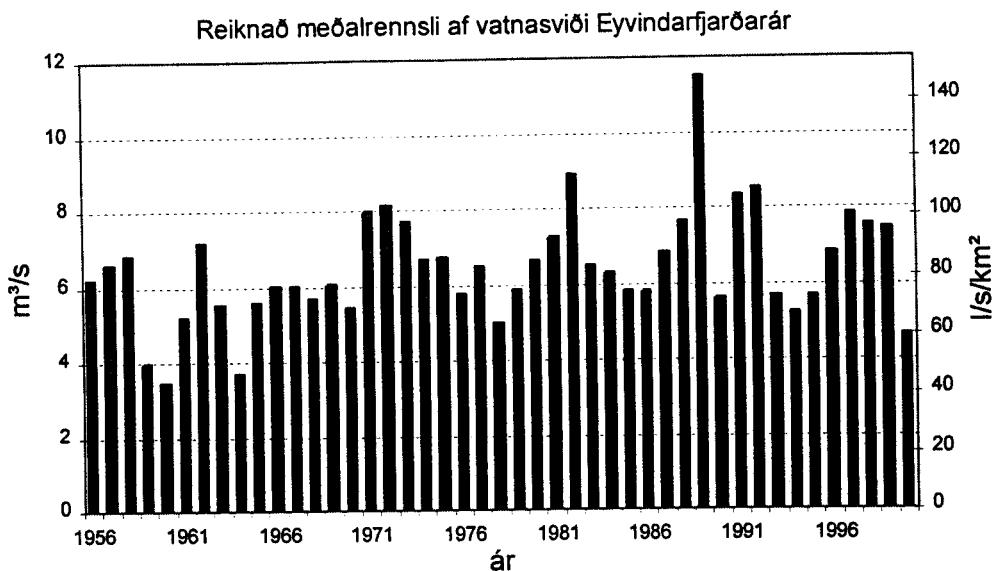
Mynd 6.1 Hæðardreifing vatnasviðs Eyvindarfjarðarár.

Mynd 6.2 sýnir samanburð á mældu og reiknuðu rennsli Eyvindarfjarðarár.



Mynd 6.2 Samanburður á mældu og reiknuðu rennsli.

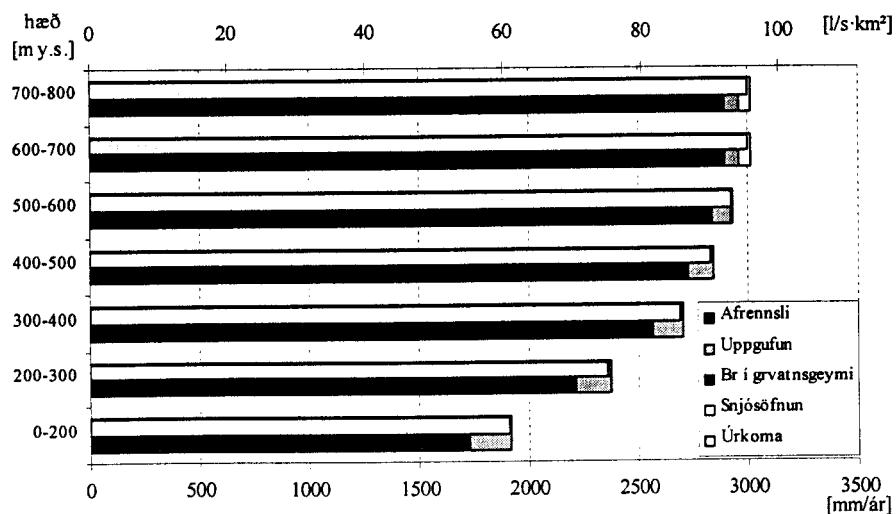
Mynd 6.3 sýnir meðalrennsli vatnsáranna 1955/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv. líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 6.3 Meðalrennsli vatnsáranna 1961/62 til 1998/99 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $6,5 \text{ m}^3/\text{s}$ eða 83 l/s/km^2 . Vatnsmestu árin eru vatnsárin 1989/90 með $145 \text{ l/s}\cdot\text{km}^2$, en hið vatnsminnsta er árið 1960/61 með $44 \text{ l/s}\cdot\text{km}^2$ meðalafrennsli.

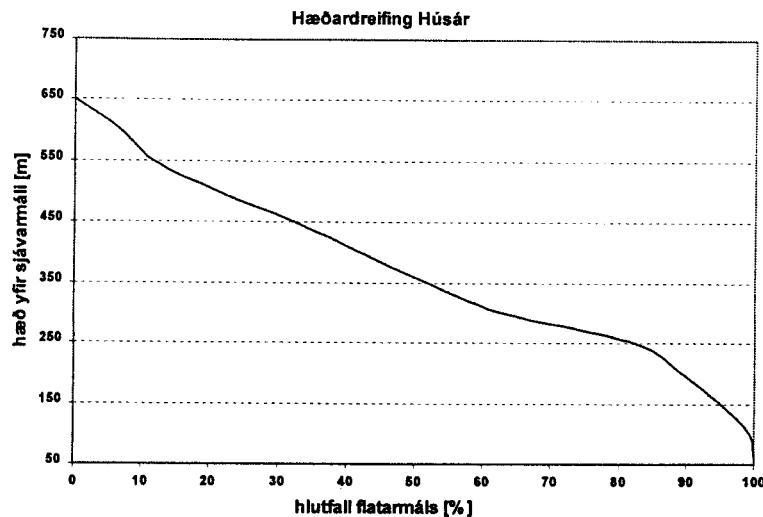
Vatnsviði Eyvindarfjarðarár var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 6.4 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnsviðinu.



Mynd 6.4 Vatnsjöfnuður á hæðarbilum vatnsviðs Bæjardalsár.

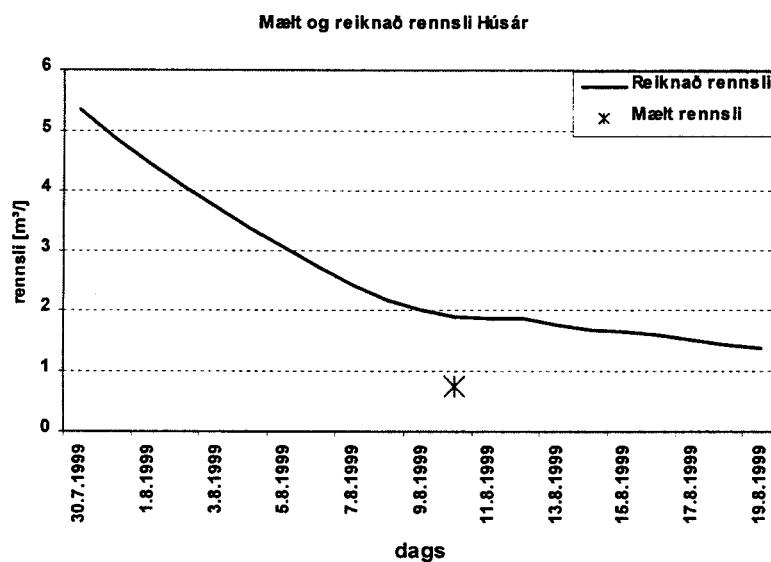
6.2 Húsá

Vatnasvið Húsár er 32 km² og sýnir mynd 6.5 sýnir hæðardreifingu vatnasviðsins.



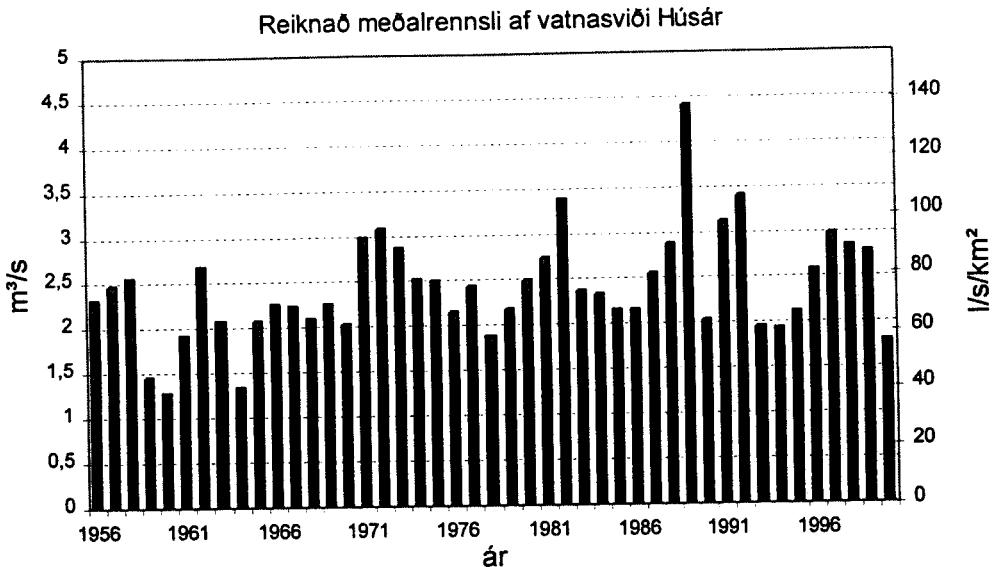
Mynd 6.5 Hæðardreifing vatnasviðs Húsár.

Mynd 6.6 sýnir samanburð á mældu og reiknuðu rennsli Húsár.



Mynd 6.6 Samanburður á mældu og reiknuðu rennsli.

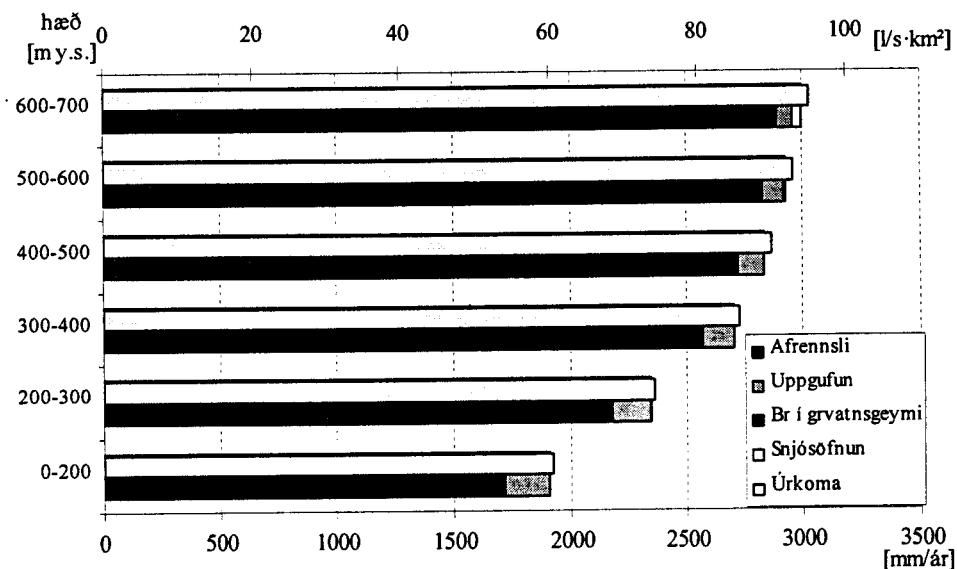
Mynd 6.7 sýnir meðalrennsli vatnsáranna 1956/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 6.7 Meðalrennsli vatnsáráranna 1961/62 til 1998/99 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $2,4 m^3/s$ eða $75,6 l/s \cdot km^2$. Vatnsmestu árin eru vatnsárin 1989/90 með $137 l/s \cdot km^2$, en hið vatnsminnsta er árið 1960/61 með $40 l/s \cdot km^2$ meðalafrénnslu.

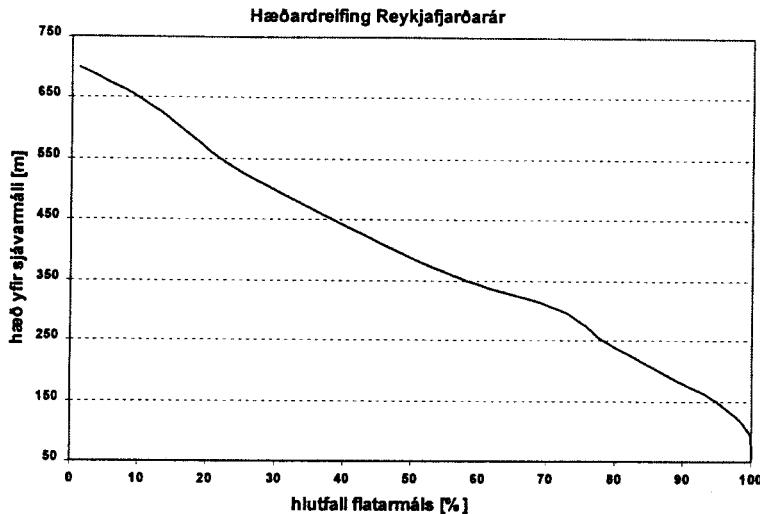
Vatnasviði Húsár var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 6.7 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnasviðinu.



Mynd 6.7 Vatnsjöfnuður á hæðarbilum vatnasviðs Húsár.

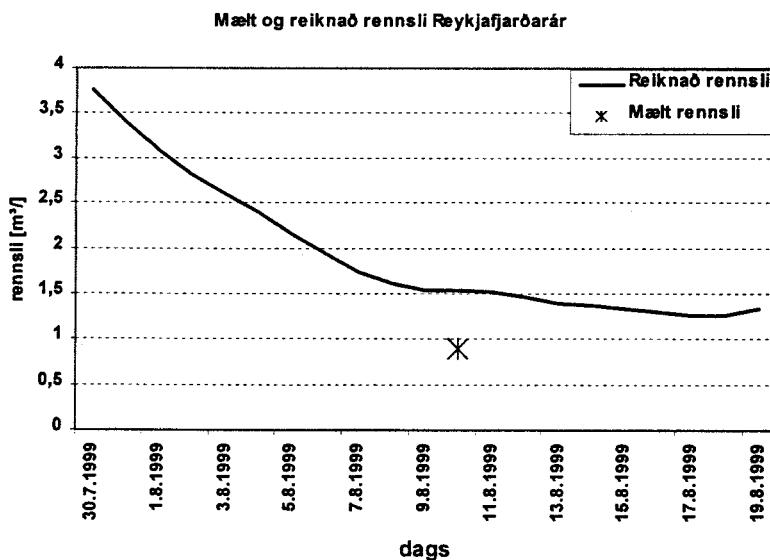
6.3 Reykjafjarðará

Stærð vatnsviðs Reykjafjarðarár er $20,57 \text{ km}^2$ og er hæðardreifing þess sýnd á mynd 4.1.



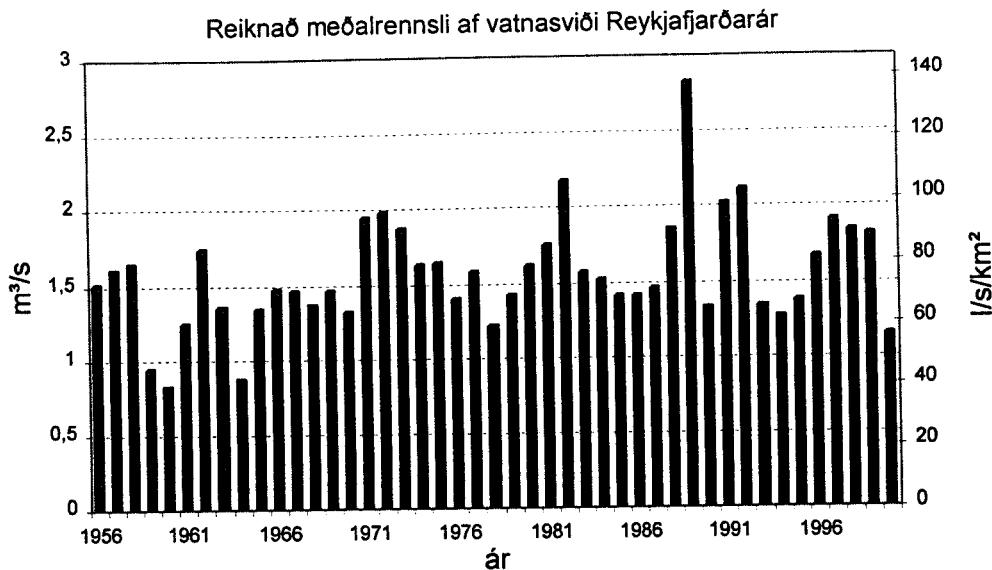
Mynd 6.8 Hæðardreifing vatnsviðs Reykjafjarðarár.

Mynd 6.9 sýnir samanburð á mældu og reiknuðu rennsli Reykjafjarðarár.



Mynd 6.9 Samanburður á mældu og reiknuðu rennsli.

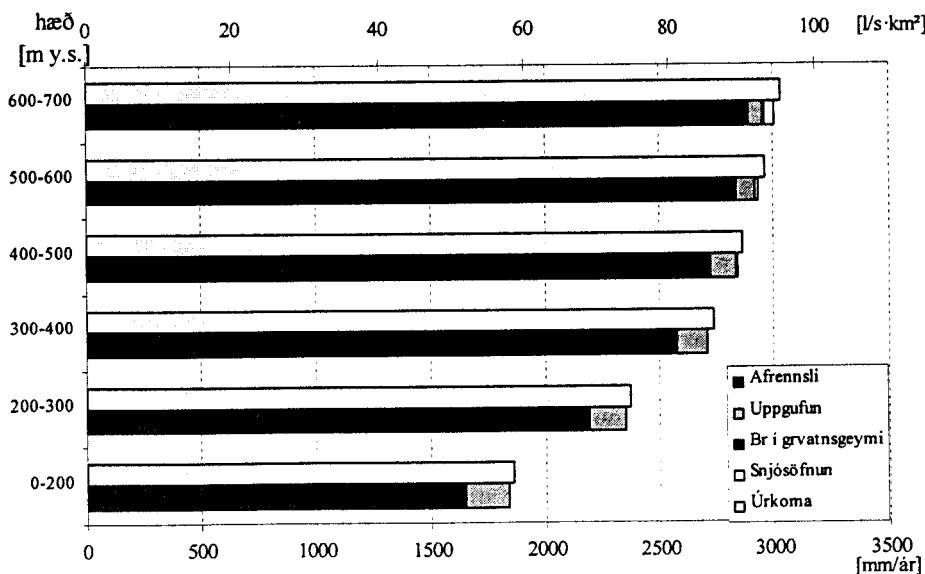
Mynd 6.10 sýnir meðalrennsli vatnsáranna 1956/57 til 2000/01 skv. líkani, en það er fundið út frá heilum rennslisröðum skv líkani fyrir tímabilið 1.9.1956 til 30.6.2001.



Mynd 6.10 Meðalrennsli vatnsárranna 1961/62 til 1998/99 skv. líkani.

Meðalrennsli á tímabilinu skv. HBV líkaninu er $1,6 m^3/s$ eða $76 l/s \cdot km^2$. Vatnsmestu árin eru vatnsárin 1989/90 með $137,7 l/s \cdot km^2$, en hið vatnsminnsta er árið 1960/61 með $40,6 l/s \cdot km^2$ meðalafrennsli.

Vatnsviði Reykjafjarðarár var nú skipt upp í sjö 100 - 200 m hæðarbil og HBV líkanið af vhm 38 keyrt á hverju þessara hæðarbila. Á mynd 6.11 sést meðal árlegur vatnsjöfnuður tímabilsins 1.9.1956 - 30.6.2001 á vatnsviðinu.



Mynd 6.11 Vatnsjöfnuður á hæðarbilum vatnsviðs Reykjafjarðarár.

7 Niðurstöður

Rennslismælingar voru notaðar til þess að bera saman mælt og reiknað rennsli. Með þessu fíkkst mynd af því hvort líkön sem gerð voru af rennsli við vatnshæðarmæla í Þverá á Langadalsströnd og Hvalá ættu vel við nærliggjandi hlutvatnasvið. Það er ljóst að ein mæling fyrir hvert vatnasvið er of lítið til þess að hægt sé að fá góða mynd af rennsli af hlutvatnasviðum, en að svo stöddu eru ekki tiltækjar fleiri mælingar. Þegar fleiri rennslismælingar af hlutvatnasviðum liggja fyrir er nauðsynlegt að endurskoða líkönin, og einnig er ástæða til að hvetja til endurskoðunar gagna úr vhm 38 og 198, og endurskoða líkön af rennsli við mælana þegar þau liggja fyrir.

Einnig er ástæða til að hvetja til samfelloðra mælinga á hálendi Ófeigsfjarðarheiðar og Langadalsstrandar, bæði á afrennsli og grunnvatni, til að hægt sé að ná betri árangri í mati á afrennsli af svæðinum.

Afrennsliskortið í viðauka I sýnir reiknað meðalafrennsli vatnsáranna 1956/57 til 2000/01 skv. HBV-líkönnum.

8 Heimildir

Bergström, Sten, 1976. Development and application of a conceptual runoff model for Scandinavian catchments. Institutionen för teknisk vattenresurslära, Lunds Tekniska Högskola, Lund.

Killingtveit, Ånund; Sælthun, Nils Roar; Sæther, Björn; Taksdal, Svein; Hirsch, Robert von, 1995. Programmet HBV-modellen. Norsk Hyrdoteknisk Laboratorium, Trondheim.

Killingtveit, Ånund; Sælthun, Nils Roar, 1995. Hydrology, Norwegian Institute of Technology, Trondheim.

Nash, J.E.; Sutcliffe, J.V., 1970. River Flow Forecasting Through Conceptual Models - Part I: Discussion of Principles. Journal of Hydrology, 10, 282 - 290.

Orkustofnun, Vatnamælingar. Gögn úr gagnasafni Vatnamælinga.

Orkustofnun, Vatnamælingar. Upplýsingar úr landupplýsingakerfi.

Sælthun, Nils Roar, 1996. The "Nordic" HBV model - version developed for the projekt Climate Change and Energy Production. NVE Publication no. 7, Norwegian Water Resources and Energy Administration, Oslo.

Tveit, John, 1994. Ingeniørhydrologi - bind I. Institutt for vassbygging, UNIT, Trondheim.

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

Viðauki I

Afrennsliskort

Viðauki II

Staðsetning HBV rennslisraða

| <u>Hlutvatnasvið</u> | <u>gagnaslóð</u> |
|------------------------|------------------------------|
| Þverá | /os/sgh/vmgogn/rennsli/99038 |
| Hvalá | /os/sgh/vmgogn/rennsli/99198 |
| Bæjardalsá | /os/sgh/vmgogn/rennsli/20005 |
| Hvannadalsá | /os/sgh/vmgogn/rennsli/20014 |
| Hafnardalsá | /os/sgh/vmgogn/rennsli/10363 |
| Blævardalsá | /os/sgh/vmgogn/rennsli/20003 |
| Hraundalsá | /os/sgh/vmgogn/rennsli/20008 |
| Selá í Steingrímsfirði | /os/sgh/vmgogn/rennsli/20024 |
| Eyvindarfjarðará | /os/sgh/vmgogn/rennsli/20007 |
| Húsá | /os/sgh/vmgogn/rennsli/20013 |
| Reykjafjarðará | /os/sgh/vmgogn/rennsli/20022 |

Viðauki III

Stuðlaskrár

Hlutvatnasvið

| | |
|------------------------|--------|
| Þverá | bls 39 |
| Hvalá | bls 41 |
| Bæjardalsá | bls 43 |
| Hvannadalsá | bls 45 |
| Hafnardalsá | bls 47 |
| Blævardalsá | bls 49 |
| Hraundalsá | bls 51 |
| Selá í Steingrímsfirði | bls 53 |
| Eyvindarfjarðará | bls 55 |
| Húsá | bls 57 |
| Reykjafjarðará | bls 59 |

Stuðlaskrá fyrir þverá. (skrá /os/sgh/vmgogn/HBVparam/param.38):

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 Eðey.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 Eðey.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 42.79 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 13 518.000 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 0.100 HYPSO (2,2)
 2 18 0.200 HYPSO (3,2)
 2 19 0.300 HYPSO (4,2)
 2 20 0.400 HYPSO (5,2)
 2 21 0.500 HYPSO (6,2)
 2 22 0.600 HYPSO (7,2)
 2 23 0.700 HYPSO (8,2)
 2 24 0.800 HYPSO (9,2)
 2 25 0.900 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 | Initial 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 fyrir Hvalá. (skrá /os/sgh/vmgogn/HBVparam/param.198):

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 | Eðey.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 | Eðey.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 | 178.27 | AREAL | Catchment area [km ²] |
| 2 | 4 | 0.000 | MAGDEL | Regulation reservoirs [1] |
| 2 | 5 | 50.000 | HYPSO (1,1), low point | [m] |
| 2 | 6 | 280.000 | HYPSO (2,1) | |
| 2 | 7 | 330.000 | HYPSO (3,1) | |
| 2 | 8 | 365.000 | HYPSO (4,1) | |
| 2 | 9 | 410.000 | HYPSO (5,1) | |
| 2 | 10 | 445.000 | HYPSO (6,1) | |
| 2 | 11 | 480.000 | HYPSO (7,1) | |
| 2 | 12 | 512.000 | HYPSO (8,1) | |
| 2 | 13 | 540.000 | HYPSO (9,1) | |
| 2 | 14 | 570.000 | 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 | 0.100 | HYPSO (2,2) | |
| 2 | 18 | 0.200 | HYPSO (3,2) | |
| 2 | 19 | 0.300 | HYPSO (4,2) | |
| 2 | 20 | 0.400 | HYPSO (5,2) | |
| 2 | 21 | 0.500 | HYPSO (6,2) | |
| 2 | 22 | 0.600 | HYPSO (7,2) | |
| 2 | 23 | 0.700 | HYPSO (8,2) | |
| 2 | 24 | 0.800 | HYPSO (9,2) | |
| 2 | 25 | 0.900 | 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 | Precipitation correction for rain [1] |
| 2 | 46 | 1.80 | SKORR | Additional precipitation correction 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) |

Viðauki III

| | | | | | |
|---|-----|--------|------------|--|-----------------|
| 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 | KUZZ | 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 | Initial 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 fyrir Bæjardalsá (skrá /os/sgh/vmgogn/HBVparam/param.baejard):

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 | Eðey.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 | Eðey.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 | 38.81 | AREAL | Catchment area [km ²] |
| 2 | 4 | 0.000 | MAGDEL | Regulation reservoirs [1] |
| 2 | 5 | 250.000 | HYPSO | (1,1), low point [m] |
| 2 | 6 | 300.000 | HYPSO | (2,1) |
| 2 | 7 | 350.000 | HYPSO | (3,1) |
| 2 | 8 | 400.000 | HYPSO | (4,1) |
| 2 | 9 | 450.000 | HYPSO | (5,1) |
| 2 | 10 | 500.000 | HYPSO | (6,1) |
| 2 | 11 | 550.000 | HYPSO | (7,1) |
| 2 | 12 | 600.000 | 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 | 0.011 | HYPSO | (2,2) |
| 2 | 18 | 0.090 | HYPSO | (3,2) |
| 2 | 19 | 0.329 | HYPSO | (4,2) |
| 2 | 20 | 0.591 | HYPSO | (5,2) |
| 2 | 21 | 0.949 | HYPSO | (6,2) |
| 2 | 22 | 0.999 | 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 | 1.20 | 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 | KUZZ | 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 | Initial 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 fyrir Hvannadalsá. (skrá /os/sgh/vmgogn/HBVparam/param.hvannad):

```

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  Eðey.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  Eðey.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     83.12 AREAL      Catchment area          - [km2]
 2   4     0.000 MAGDEL     Regulation reservoirs - [1]
 2   5   100.000 HYPSO ( 1,1), low point      [m]
 2   6   150.000 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     0.091 HYPSO ( 2,2)
 2  18     0.040 HYPSO ( 3,2)
 2  19     0.073 HYPSO ( 4,2)
 2  20     0.109 HYPSO ( 5,2)
 2  21     0.179 HYPSO ( 6,2)
 2  22     0.269 HYPSO ( 7,2)
 2  23     0.475 HYPSO ( 8,2)
 2  24     0.704 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     1.20 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     Precipitation 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 | KUZZ | 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 | Initial 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 fyrir Hafnardsá (skrá /os/sgh/vmgogn/HBVparam/param.hafnard):

```

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 Eðey.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 Eðey.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 37.85 AREAL Catchment area [km2]
2 4 0.000 MAGDEL Regulation reservoirs [1]
2 5 150.000 HYPSO ( 1,1), low point [m]
2 6 200.000 HYPSO ( 2,1)
2 7 250.000 HYPSO ( 3,1)
2 8 300.000 HYPSO ( 4,1)
2 9 350.000 HYPSO ( 5,1)
2 10 400.000 HYPSO ( 6,1)
2 11 450.000 HYPSO ( 7,1)
2 12 500.000 HYPSO ( 8,1)
2 13 550.000 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 0.021 HYPSO ( 2,2)
2 18 0.070 HYPSO ( 3,2)
2 19 0.113 HYPSO ( 4,2)
2 20 0.177 HYPSO ( 5,2)
2 21 0.277 HYPSO ( 6,2)
2 22 0.523 HYPSO ( 7,2)
2 23 0.809 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 1.20 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 | KUZZ | 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 | Initial 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 fyrir Blævardalsá (skrá /os/sgh/vmgogn/HBVparam/param.blaevard):

| | | | | |
|-------|-------|----------------|--|--|
| 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 | Eðey.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 | Eðey.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 | 29.19 | AREAL | Catchment area [km ²] |
| 2 | 4 | 0.000 | MAGDEL | Regulation reservoirs [1] |
| 2 | 5 | 150.000 | HYPSO (1,1), low point | [m] |
| 2 | 6 | 200.000 | HYPSO (2,1) | |
| 2 | 7 | 250.000 | HYPSO (3,1) | |
| 2 | 8 | 300.000 | HYPSO (4,1) | |
| 2 | 9 | 350.000 | HYPSO (5,1) | |
| 2 | 10 | 400.000 | HYPSO (6,1) | |
| 2 | 11 | 450.000 | HYPSO (7,1) | |
| 2 | 12 | 500.000 | HYPSO (8,1) | |
| 2 | 13 | 600.000 | HYPSO (9,1) | |
| 2 | 14 | 650.000 | HYPSO (10,1) | |
| 2 | 15 | 700.000 | HYPSO (11,1), high point | |
| 2 | 16 | 0.008 | HYPSO (1,2), Part of total area below HYPSO(1,1) = 0 | |
| 2 | 17 | 0.066 | HYPSO (2,2) | |
| 2 | 18 | 0.224 | HYPSO (3,2) | |
| 2 | 19 | 0.334 | HYPSO (4,2) | |
| 2 | 20 | 0.583 | HYPSO (5,2) | |
| 2 | 21 | 0.835 | HYPSO (6,2) | |
| 2 | 22 | 0.965 | 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 | 1.20 | 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 | KUZZ | 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 | Initial 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 fyrir hlutvatnsvið Hraundalsár (skrá /os/sgh/vmgogn/HBVparam/param.hraund):

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 | Eðey.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 | Eðey.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 | 75.88 | AREAL | Catchment area [km ²] |
| 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 | 150.000 | HYPSO | (3,1) |
| 2 | 8 | 200.000 | HYPSO | (4,1) |
| 2 | 9 | 250.000 | HYPSO | (5,1) |
| 2 | 10 | 300.000 | HYPSO | (6,1) |
| 2 | 11 | 350.000 | HYPSO | (7,1) |
| 2 | 12 | 400.000 | 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 | 0.020 | HYPSO | (2,2) |
| 2 | 18 | 0.045 | HYPSO | (3,2) |
| 2 | 19 | 0.091 | HYPSO | (4,2) |
| 2 | 20 | 0.149 | HYPSO | (5,2) |
| 2 | 21 | 0.220 | HYPSO | (6,2) |
| 2 | 22 | 0.323 | HYPSO | (7,2) |
| 2 | 23 | 0.460 | HYPSO | (8,2) |
| 2 | 24 | 0.872 | HYPSO | (9,2) |
| 2 | 25 | 0.998 | 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    KUZZ2   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   Initial 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 fyrir Selá. (skrá /os/sgh/vmgogn/HBVparam/param.sela):

```

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 .0 PWGT1 Weight precipitation station 1
2 0 Eðey.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 Eðey.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 vhm038 QID Identification for discharge station
2 0 1.0 QWGT Scaling factor for discharge
2 0 203.58 AREAL Catchment area [km2]
2 4 0.000 MAGDEL Regulation reservoirs [1]
2 5 45.000 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 9 350.000 HYPSO( 5,1)
2 10 400.000 HYPSO( 6,1)
2 11 450.000 HYPSO( 7,1)
2 12 500.000 HYPSO( 8,1)
2 13 550.000 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 0.050 HYPSO( 2,2)
2 18 0.097 HYPSO( 3,2)
2 19 0.177 HYPSO( 4,2)
2 20 0.273 HYPSO( 5,2)
2 21 0.510 HYPSO( 6,2)
2 22 0.678 HYPSO( 7,2)
2 23 0.747 HYPSO( 8,2)
2 24 0.935 HYPSO( 9,2)
2 25 0.994 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 correction 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 | KUZZ | 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) [mm] | |
| 2 | 91 | 0.00 | ROUT | (2), Routing constant (rating curve const) [1] | |
| 2 | 92 | 0.00 | ROUT | (3), Routing constant (rating curve zero) [1] | |
| 2 | 93 | 0.00 | ROUT | (4), Routing constant (rating curve exp) [1] | |
| 2 | 94 | 0.00 | ROUT | (5), Routing constant (drained area ratio) [1] | |
| 2 | 95 | 0.00 | DECAY | (1), Feedback constant [mm] | |
| 2 | 96 | 0.00 | DECAY | (2), Feedback constant [deg] | |
| 2 | 97 | 0.00 | DECAY | (3), Feedback constant [deg] | |
| 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 | Initial 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 | [1] |
| 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 fyrir EYVINDARFJARÐARÁ (skrá /os/sgh/vmgogn/HBVparam/param.eyvindarfj):

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 78.04 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 0.015 HYPSO (2,2)
 2 18 0.056 HYPSO (3,2)
 2 19 0.159 HYPSO (4,2)
 2 20 0.490 HYPSO (5,2)
 2 21 0.743 HYPSO (6,2)
 2 22 0.957 HYPSO (7,2)
 2 23 0.992 HYPSO (8,2)
 2 24 0.996 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 Precipitation 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 | KUZZ | 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 | Initial 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 fyrir Húsá. (skrá /os/sgh/vmgogn/HBVparam/param.husa):

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 | Eðey.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 | Eðey.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 [km ²] |
| 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 | KUZZ | 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 | Initial 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 fyrir Reykjafjarðará. (skrá /os/sgh/vmgogn/HBVparam/param.reykjafj):

```

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 & 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 20.57 AREAL Catchment area [km2]
2 4 0.000 MAGDEL Regulation reservoirs [1]
2 5 45.000 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 9 350.000 HYPSO ( 5,1)
2 10 400.000 HYPSO ( 6,1)
2 11 450.000 HYPSO ( 7,1)
2 12 500.000 HYPSO ( 8,1)
2 13 550.000 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 0.098 HYPSO ( 2,2)
2 18 0.219 HYPSO ( 3,2)
2 19 0.383 HYPSO ( 4,2)
2 20 0.476 HYPSO ( 5,2)
2 21 0.581 HYPSO ( 6,2)
2 22 0.719 HYPSO ( 7,2)
2 23 0.782 HYPSO ( 8,2)
2 24 0.864 HYPSO ( 9,2)
2 25 0.949 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 Precipitation correction for rain [1]
2 46 1.80 SKORR Additional precipitation correction for snow at gauge [1]
2 47 365.0 GRADALT Altitude for change in prec. grad. [m]
2 48 0.06 PGRADE1 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 PGRADE 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 | KUZZ | 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, km ²) | |
| 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 | Initial 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