SMHI

S. Bergström

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List of publications and documents on research on and applications of the HBV model

The following list covers publications and documents, which have been identified to be related to the development and use of the HBV model. The list includes work carried out at the Swedish Meteorological and Hydrological Institute (SMHI) or elsewhere.

The sources of the list are mainly documents at SMHI, input from colleagues abroad, Google, Yahoo and www.webofknowledge.com. I am aware of the fact that this list is far from complete. In some cases countries or regions are indicated in red to facilitate search.

At the end of the document an extracted list of Ph.D. theses can be found as well as a list of countries and a world map.

Thank you all for your contributions!

Sten Bergström

1972

1. Bergström, S. (1972) Utveckling och tillämpning av en digital avrinningsmodell. SMHI, Notiser och preliminära rapporter, ser. Hydrologi nr 22. Also in Bind 2; Nordic Hydrological conference, Sandefjord, Norway.

2. Bergström, S. (1972) The application of a simple rainfall-runoff model to a catchment with incomplete data coverage. SMHI, Notiser och preliminära rapporter, ser. Hydrologi No. 26. IHD-Report.

3. Bergström, S. (1972) Studiebesök på Irland (In Swedish: Study visit to Ireland) SMHI, HBV, Rese-PM nr 15. 1972-08-09. (Includes shorts notes on a discussion on hydrological modelling with E. Nash and J.E. O'Conner.)

1973

4. Bergström, S. (1973) Utveckling och tillämpning av SMHIs avrinningsmodell, HBV-2. Femte Nordiske Feltsymposium, Institutt for Vassbygging, NTH, Trondheim.

5. Bergström, S., and Forsman, A. (1973) Development of a conceptual deterministic rainfall-runoff model. Nordic Hydrology, Vol. 4, No. 3. 147-170.

6. Forsman, A och Fremling, S. (1973) Vatten, vatten! In: Vädret Vattnet och Vi - SMHI fyller 100 år (page 223-224). SMHI/Allmänna Förlaget. Stockholm.

7. Lindh, G. (1973) Metoder för beräkning av dagvattenavrinning. Väg- och vattenbyggaren, 6, pp 623-626.

1974

8. Bergström, S. (1974) Avrinning i modell och verklighet. Forskning och framsteg nr 5.

9. Bergström, S. (1974) Metodiken vid utveckling av matematiska avrinningsmodeller.Vannet i Norden, årg. 7, nr 2.

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10. Bergström, S. (1975) The development of a snow routine of the HBV-2 model. SMHI/HBV, PM nr 142.

11. Bergström, S. (1975) The development of a snow routine of the HBV-2 model. Nordic Hydrology, Vol. 6, No. 2.

12. Bergström, S., and Jönsson, S. (1975) Calibrating and testing a reservoir inflow model - A case study. SMHI, HBV Memo. No. 157. (Prepared for the International Symposium and Workshops on the Application of Mathematical Models in Hydrology and Water Resources Systems, Bratislava, 1975.)

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13. Aam, S and Fjeld, M. (1976) Kontinuerlige og diskrete likninger for Sira-Kvina tilsigsmodell. rapport STF48-F76054 SINTEF, Trondheim.

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16. Bergström, S., (1976) Hydrologiska prognosmodeller. Svenska Kraftverksföreningens publikation nr 566 (1976:5) Också publicerad i proceedings från diskussionsmöte rörande hydrologiska modeller I Trondheim 25-26 mars 1976. Institutt for Vassbygging, Norges Tekniske Högskole, Trondheim)

17. Bergström, S., and Jönsson, S. (1976) The application of the HBV runoff model to the Filefjell research basin. SMHI, Report RHO No. 5.

18. Bergström, S., och Jönsson, S. (1976) Tillämpning av HBV-2-modellen på regleringsmagasin i Ångermanälven. SMHI, HB-rapport nr 18.

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21. Aam, S., Fossdal, M., Wingård, B., Killingtveit, Å og Fjeld, M. (1977) Hydrologisk modell for drift av kraftverk. Rapport fra EFI, NVE, Institutt for Vassbygging og SINTEF (STF48-A77009).

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24. Kuusisto, E. (1977) Konseptuaalisten valuntamallien soveltamisesta Suomessa. Vesitalous, 1 (1977) XVIII.

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26. Aam. S. (1978) Metoder for parameterestimering. Erfaringer ved bruk av HBV- og SNSF-modellen. 50 pp. Elektrisitetsforsyningens forskningsinstitutt, EFI-TR 2310, Trondheim.

27. Aam, S., Gjelstad, A. og Killingtveit, Å. (1978) Sorvatn-feltet, Tilpassning av HBV- og SNSF-modellerne. Rapport fra EFI (EFI-TR 2307) og Institutt for vassbygging (B 1-78-10).

28. Aam, S., Gjelstad, A. og Killingtveit, Å. (1978) Naeverdal-feltet, Tilpassning av HBV- og SNSF-modellerne. Rapport fra EFI (EFI-TR 2308) og Institutt for vassbygging (B 1-78-11).

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31. Bergström, S. (1978) Tillämpning av en hydrologisk prognosmodell för Tidan 1978. SMHI, HBV-PM nr 249. (Bidrag till Vattenplaneringsutredningen.)

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33. Bergström, S. (1978) Spring flood forecasting by conceptual models in Sweden. Proceedings: Modeling of Snow Cover Runoff, U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, New Hampshire, 26 - 28 Sept., 1978.

34. Bergström S., Persson, M., Sundqvist, B. (1978) Operational hydrological forecasting by conceptual models. SMHI, HB-Report No. 32.

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37. Sælthun, N.R.(1978) Hydrologiske modeller ved driftsoptimalisering av vannkraftverk. In: Matematiske modellers anvendelse i hydrologi. Nordisk ekspertmøte, Oslo nov 1977. Eds. B. Wingård and Å. Killingtveit. Nordic IHP Report 1. pp 10-17. Norsk hydrologisk komité, Oslo, ISBN 82-7086-025-5.

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39. Sælthun, N.R.(1978) Knappom i Flisavassdraget - tilpassing av hydrologiske modeller. Prosjektet hydrologiske prognosemodeller 38 pp. Hydrologisk avdeling, NVE, Oslo.

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47. Bergström, S., and Chaturvedi, M.C. (1980) Institutional collaboration between IIT-Delhi and SMHI, Norrköping, on water resources development - hydrological forecasting. Report on Phase I and programme for Phase II. SMHI, HBV-PM No. 317.

48. Bergström, S., Häggström, M., och Persson, M. (1980) Utvärdering av 1980 års vårflödesprognoser. SMHI, HB-rapport nr 44.

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52. Bergström, S., och Persson, M. (1981) Modellering av glaciäravrinning på Island. Vannet i Norden nr 1:1981

53. Lundquist, D. (1981) Snömodellstudier i Dyrdalen. Intern rapport nr. 5. Norsk hydrologisk komité, Oslo.

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57. Bergström, S., Einarsson, K., och Persson, M. (1982) Modellering av glaciäravrinning på Island. Nordisk Hydrologisk Konferens 1982, Förde, Norge.

58. Bergström, S. (1982) Grundvattenbildning i ett moränområde - analys med hjälp av avrinningsmodeller. Lägesrapport januari 1982 samt planer för fortsatt arbete. SMHI, HBV PM nr 325. (1982 01-13)

59. Bergström, S. and Persson, M. (1982) Grundvattenberäkningar och vattenbalans i Finnsjöområdet. SMHI/HBV PM nr 332.

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61. Lundberg, A. (1982) Combination of a conceptual model and an autoregressive error model for improving short time forecasting. Water Resources Engineering, Luleå University, Sweden, Series A No. 88. (TULEA 1983:32)

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68. Bergström, S., and Sundqvist, B. (1983) Synoptic water balance mapping in Sweden. Contribution to the IAHS Workshop on New Approaches in Water Balance Computations, Hamburg 1983, IAHS Publ. No. 148.

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70. Persson, M. (1983) Uppdatering av HBV-modellen. SMHI HOh PM nr 18, Norrköping.

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71. Bergström, S. (1984) Användning av nederbörd-avrinningsmodeller i Sverige. Bidrag till Nordiskt Arbetsmöte om Hydrologiska Modeller i Vattenplaneringen, Vettre, Norge, juni 1984. SMHI, HOf-PM nr 32.

72. Bergström, S. (1984) Extrem tillrinning till regleringsmagasin - Diskussion om problemställningen och beräkningsexempel för övre Indalsälven. SMHI, HOf-PM nr 31.

73. Braun, L.N. and Lang, H. (1984) Simulation of snowmelt-runoff in lowland and lower alpine regions of Switzerland. Contribution to the AGU 1984 Fall Meeting, San Fransisco.

74. Bhatia, P.K., Bergström, S., and Persson, M. (1984) Application of the distributed HBV-6 model to the Upper Narmada basin in India. SMHI, Report RHO No. 35.

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79. Häggström, M. (1984) Utvärdering av 1983 års vårflödesprognoser. SMHI, rapport HO 19, Norrköping.

80. Häggström, M. och Persson, M. (1984) Utvärdering av 1983 års vårflödesprognoser. SMHI, rapport HO 17, Norrköping.

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87. Sælthun, N.R (1984) Markvannsparametre i HBV-modellen. *In: Aktiviteter på markvannssektoren i Norge.* Ed. T. Ziegler. Rapport 16. pp 35-41. Norsk hydrologisk komité, Oslo, 1984. ISBN 82-554-0387-6.

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Countries (territories in some cases)

1. Afghanistan
2. Australia
3. Austria
4. Azerbadian
5. Belarus
6. Belgium
7. Benin
8. Bhutan
9. Bolivia
10. Brazil
11. Bulgaria
12. Burma
13. Burundi
14. Cambodia
15. Cameroon
16. Canada
17. Chile
18. China
19. Colombia
20. Costa Rica
21. Cuba
22. Czech republic
23. Denmark
24. El Salvador
25. Equador
26. Estonia

27. Ethiopia
28. Fiji
29. Finland
30. France
31. Georgien
32. Germany
33. Ghana
34. Greece
35. Greenland
36. Guatemala
37. Guinea
38. Honduras
39. Hungary
40. Iceland
41. India
42. Iran
43. Indonesia
44. Ireland
45. Italy
46. Ivory Coast
47. Jamaica
48. Kazakstan
49. Kyrgyzstan
50. Laos
51. Latvia
52. Lithuania
53. Luxemburg
54. Malawi
55. Malaysia
56. Mali
57. Mongolia
58. Mozambique
59. Netherlands
60. Nepal
61. New Zeeland
62. Nicaragua
63. Norway
64. Pakistan
65. Panama
66. Peru
67. Philippines
68. Poland
69. Puerto Rico
70. Russia
71. Rwanda
72. Serbia
73. Slovakia
74. Slovenia
75. South africa
76. South Korea

77. Spain
78. Sri Lanka
79. Sudan
80. Svalbard
81. Sweden
82. Switzerland
83. Taiwan
84. Tajikistan
85. Tanzania
86. Thailand
87. Tunisia
88. Turkey
89. Uganda
90. UK
91. USA
92. Uzbekistan
93. Vietnam
94. Zambia
95. Zimbabwe