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| **Figure** | **Credit** |
| Fig1\_1 | Author's own |
| Fig1\_2 | Author's own |
| Fig1\_3 | Author's own |
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| Fig3\_21 | Author's own |
| Fig3\_22 | Author's own |
| Table3\_1a | Author's own |
| Table3\_1b | Author's own |
| Table3\_1c | Author's own |
| Table3\_2 | Author's own |
| Table3\_3 | Author's own |
| Table3\_4 | See Singh (1992) and Helsel et al. (2020 |
| Table3\_5 | Author's own |
| Table3\_6 | Author's own |
| Table3\_7 | Author's own |
| Table3\_8 | Author's own |
| Table3\_9 | Author's own |
| Table3\_10a | Author's own |
| Table3\_10b | Author's own |
| Table3\_11a | Author's own |
| Table3\_11b | Author's own |
| Table3\_11c | Author's own |
| Table3\_11d | Author's own |
| Table3\_11e | Author's own |
| Table3\_11f | Author's own |
| UnTable3\_1a | Author's own |
| UnTable3\_1b | Author's own |
| Fig4\_1 | (taken from Hydrology Archives – Cement Concrete, courtesy Jay Kumar Shah) |
| Fig4\_2 | The digital elevation model shown in C is created fromthe National Elevation Dataset provided by USGS. The watershed boundaries shown in A are fromthe National Hydrography Dataset provided by USGS. The watershed boundaries shown in A are fromthe National Hydrography Dataset provided by USGS. |
| Fig4\_3a | Author's own |
| Fig4\_3b | Author's own |
| Fig4\_4 | Author's own |
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| Fig4\_7 | Author's own |
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| Fig4\_14a | Author's own |
| Fig4\_14b | Author's own |
| Fig4\_15 | Author's own |
| Fig4\_16a | Author's own |
| Fig4\_16b | Author's own |
| Fig4\_17 | Author's own |
| Fig4\_18 | Author's own |
| Fig4\_19 | Author's own |
| Fig4\_20a | Author's own |
| Fig4\_20b | Author's own |
| Fig4\_21 | Author's own |
| Fig4\_22 | Technical Paper No. 29, Part 3 by the US Weather Bureau (1958). |
| Fig4\_23a | (from NRCS, 1986) |
| Fig4\_23b | (from NRCS, 1986) |
| Fig4\_24 | Author's own |
| Fig4\_25 | Author's own |
| Fig4\_26 | (source of data: https://hdsc.nws.noaa.gov/pfds). |
| Fig4\_27 | Author's own |
| Fig4\_28 | Author's own |
| Fig4\_29 | Author's own |
| Fig4\_30 | Author's own |
| Fig4\_31 | Author's own |
| Fig4\_32 | Author's own |
| Fig4\_33 | (data source: Schreiner and Riedel, 1978) |
| Fig4\_34 | Data are from Schreiner and Riedel (1978). S.I. indicates storm index (given in the data source) |
| Fig4\_35 | Author's own |
| Fig4\_36 | (data are from Desa and Rakhecha, 2007). The PMP at a station is calculated based on 24 h AMS. The POR varies from 14 to 55 years with an average POR of 40 years |
| Fig4\_37 | Author's own |
| Fig4\_38 | Author's own |
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| Fig4\_53 | Author's own |
| Table4\_1a | Author's own |
| Table4\_1b | Author's own |
| Table4\_1c | Author's own |
| Table4\_2 | Author's own |
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| Table4\_4 | Author's own |
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| Table4\_9a | Author's own |
| Table4\_9b | Author's own |
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| Table4\_13a | Author's own |
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| Table4\_24 | Author's own |
| Table4\_25 | Author's own |
| Fig5\_1 | Author's own |
| Fig5\_2 | Author's own |
| Fig5\_3 | Author's own |
| Fig5\_4 | Julien (2002). |
| Fig5\_5 | Author's own |
| Fig5\_6 | Author's own |
| Fig5\_7 | Author's own |
| Fig5\_8 | Author's own |
| Fig5\_9 | (adopted from Mutreja and Bhatia, unpublished personal communication to VPS) |
| Fig5\_10 | Author's own |
| Fig5\_11 | Author's own |
| Fig5\_12 | Author's own |
| Fig5\_13 | (from Mukhopadhyay and Khan, 2015; Journal of Hydrology) |
| Fig5\_14 | (from Mukhopadhyay and Khan, 2014a; Journal of Hydrology) |
| Fig5\_15 | Author's own |
| Fig5\_16 | The graphs are constructed from data obtained from the Global Runoff Data Centre, Federal Institute of Hydrology in Germany |
| Fig5\_17 | Author's own |
| Fig5\_18 | Author's own |
| Fig5\_19 | Author's own |
| Fig5\_20 | Author's own |
| Fig5\_21 | Author's own |
| Fig5\_22 | Author's own |
| Fig5\_23 | Author's own |
| Fig5\_24 | Author's own |
| Fig5\_25 | The discharge data are from the UK National River Flow Archive |
| Fig5\_26 | Author's own |
| Fig5\_27 | Author's own |
| Fig5\_28a | constructed from data given in Pekárová et al., 2019 |
| Fig5\_28b | constructed from data given in Pekárová et al., 2019 |
| Fig5\_29 | Author's own |
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| Fig5\_40 | Author's own |
| Box5\_1 | Author's own |
| Box5\_2 | Author's own |
| Box5\_3 | Author's own |
| Box5\_4 | Author's own |
| Box5\_5 | Author's own |
| Box5\_6 | Author's own |
| Table5\_1 | Author's own |
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| Table5\_5b | Author's own |
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| Table5\_8a | Author's own |
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| Table5\_13 | Author's own |
| Table5\_14 | Author's own |
| Fig6\_1 | Shapefile provided by USGS (courtesy: Kimberley A. Jones, Supervisory GIS Specialist, Utah Water Science Center) |
| Fig6\_2 | Author's own |
| Fig6\_3 | Author's own |
| Fig6\_4 | Author's own |
| Fig6\_5 | (data courtesy of Dr. Bo Chen, China) |
| Fig6\_6 | Author's own |
| Fig6\_7 | Author's own |
| Fig6\_8a | Author's own |
| Fig6\_8b | Author's own |
| Fig6\_8c | Author's own |
| Fig6\_9 | Data are from Rigon et al. (1996) |
| Fig6\_10 | Author's own |
| Fig6\_11 | From Mukhopadhyay, B., Khan, A., and Gautam, R. 2015. Rising and falling river flows: contrasting signals of climate change and glacier mass balance from the eastern and western Karakoram. Hydrological Sciences Journal, Volume 60, No. 11-12, 2062–2085 |
| Fig6\_12 | Author's own |
| Fig6\_13 | The elevation data used for computation of the curves are given in Mukhopadhyay and Dutta (2010) |
| Fig6\_14 | Author's own |
| Fig6\_15 | (data from Morisawa, 1962) |
| Fig6\_16 | (adopted from Langbein and Leopold, 1964) |
| Fig6\_17 | Author's own |
| Fig6\_18 | derived from the data given in Stall and Yang |
| Fig6\_19 | Author's own |
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| Table6\_19 | Author's own |
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| Fig7\_15 | Author's own |
| Fig7\_16 | Author's own |
| Fig7\_17 | Author's own |
| Fig7\_18 | Author's own |
| Fig7\_19 | Values are calculated form the soil and land cover data shown in Figures 7.16 and 7.18 using the GIS method |
| Fig7\_20 | For a similar concept, see also Tholin and Kiefer (1906) |
| Fig7\_21 | Author's own |
| Fig7\_22 | (after Bennett and Peters, 2000) |
| Fig7\_23 | Author's own |
| Fig7\_24 | Author's own |
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| Table7\_1 | Author's own |
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| Table8\_3i | Author's own |
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| Table8\_3k | Author's own |
| Table8\_3l | Author's own |
| Table8\_3m | Author's own |
| Table8\_3n | Author's own |
| Fig9\_1 | Author's own |
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| Fig9\_4 | Author's own |
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| Fig9\_7 | Author's own |
| Fig9\_8 | Author's own |
| Fig9\_9 | Author's own |
| Fig9\_10 | Author's own |
| Fig9\_11 | Author's own |
| Fig9\_12 | The geographic boundary of India shown in this map is reproduced from the map given in CWC (1983) and is used solely for the scientific purpose described in the text |
| Fig9\_13 | Author's own |
| Fig9\_14 | Author's own |
| Fig9\_15 | Author's own |
| Fig9\_16 | (data courtesy of Dr. Chulsang Yoo and Dr. Wooyoung Na). Discharge at the inflection point is Q, discharge at a time before the occurrence of inflection point is Q1 and discharge at a time after the point of inflection is Q2 |
| Fig9\_17 | Author's own |
| Fig9\_18 | Plots are made from the data given in NIH (1998) |
| Fig9\_19 | Plots are made from the data given in NIH (1998) |
| Fig9\_20 | Author's own |
| Fig9\_21 | Plots are generated from the data given in Appendix A of Fort Bend County Drainage Design Manual |
| Fig9\_22 | Author's own |
| Fig9\_23 | Author's own |
| Fig9\_24 | Author's own |
| Fig9\_25 | Author's own |
| Fig9\_26 | (data are from Welle and Woodward, 1989) |
| Fig9\_27 | Data used to produce the plots are from NIH (2001) |
| Fig9\_28 | Author's own |
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| Table9\_30b | Author's own |
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| Table10\_1 | Author's own |
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| Table11\_1 | Author's own |
| Table11\_2 | Source: Texas Department of Transportation (2019) |
| Table11\_3 | Author's own |
| Table11\_4 | Author's own |
| Table11\_5 | Author's own |
| Table11\_6 | Author's own |
| Fig12\_1 | Author's own |
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| Fig13\_16 | Author's own |
| Fig13\_17 | Author's own |
| Fig13\_18 | Author's own |
| Fig13\_19 | (Photographs courtesy of Rangsarit Vanijjirattikha, the Electricity Generating Authority of Thailand.) |
| Fig13\_20 | Author's own |
| Fig13\_21 | (drawn from the concept given by Mustafa, 2017) |
| Fig13\_22 | Author's own |
| Fig13\_23 | Author's own |
| Fig13\_24 | Author's own |
| Table13\_1 | Author's own |
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| Table13\_12 | Author's own |
| Table13\_13 | Author's own |
| Fig14\_1 | Author's own |
| Fig14\_2 | Author's own |
| Fig14\_3 | Author's own |
| Fig14\_4 | Author's own |
| Fig14\_5 | Author's own |
| Fig14\_6 | Author's own |
| Fig14\_7 | Author's own |
| Table14\_1 | Author's own |
| Table14\_2 | Author's own |
| Table14\_3 | Author's own |
| Table14\_4 | Author's own |
| Table14\_5 | Author's own |
| Table14\_6 | Author's own |
| Table14\_7 | Author's own |
| Fig15\_1 | Author's own |
| Fig15\_2 | derived from MODIS data |
| Fig15\_3 | From Mukhopadhyay (2012). Journal of Hydrology, 412–413, 14–33 |
| Table15\_1 | Author's own |
| Table15\_2 | Author's own |
| Table15\_3 | Data from Hong and Guodong, Chinese Science Bulletin, vol. 48, no. 20, 2003 |
| Table15\_4 | Author's own |
| Fig16\_1 | The data are from Ali and De Boer (2007) |
| Fig16\_2 | Data from H. Ahmad Waseem (University of Engineering and Technology, Lahore) |
| Fig16\_3 | Author's own |
| Fig16\_4 | Author's own |
| Fig16\_5 | The data are given in Yang (1996) |
| Fig16\_6 | Author's own |
| Fig16\_7 | Author's own |
| Table16\_1 | Author's own |
| Table16\_2 | Author's own |
| Table16\_3 | Author's own |
| Table16\_4 | Author's own |
| Fig17\_1 | Author's own |
| Fig17\_2 | Author's own |
| Fig17\_3 | Author's own |
| Fig17\_4 | Author's own |
| Fig17\_5 | Author's own |
| Fig17\_6 | Author's own |
| Fig17\_7 | Author's own |
| Fig17\_8 | Author's own |
| Fig17\_9 | Author's own |
| Table17\_1 | Author's own |
| Table17\_2 | Author's own |
| Table17\_3 | Author's own |
| Fig18\_1 | Image source: https://earthobservatory.nasa.gov/ |
| Fig18\_2 | Revised from Mukhopadhyay, B. and Khan, A. (2015b). Boltzmann–Shannon entropy and river flow stability within Upper Indus Basin in a changing climate. International Journal of River Basin Management, vol. 13, no. 1, 87–95 |
| Fig18\_3 | Revised from Mukhopadhyay, B. and Khan, A. (2015b). Boltzmann–Shannon entropy and river flow stability within Upper Indus Basin in a changing climate. International Journal of River Basin Management, vol. 13, no. 1, 87–95. Data are courtesy of Danial Hashmey (Water and Power Development Authority, Lahore, Pakistan) |
| Fig18\_4 | Revised from Mukhopadhyay, B. (2013). Signature and hydrologic consequences of climate change within Upper-Middle Brahmaputra Basin. Hydrological Processes, vol. 27, 2126–2143 |
| Fig18\_5 | Author's own |
| Fig18\_6 | Author's own |
| Fig18\_7 | Author's own |
| Fig18\_8 | Author's own |
| Fig18\_9 | Author's own |
| Fig18\_10 | Author's own |
| Table18\_1 | Author's own |
| Table18\_2 | Source: from Lowry (1967) |
| Fig19\_1 | Author's own |
| Fig19\_2 | From Mukhopadhyay, B. and Singh, V. P. (2011). Hydrologic modeling at mesoscopic scales using global datasets to derive stream water availability models of river basins. In Shukla, M. K. (ed.), Soil Hydrology, Land Use and Agriculture, CAB International |
| Fig19\_3 | Author's own |
| Fig19\_4 | Author's own |
| Table19\_1 | Author's own |
| Table19\_2 | Author's own |
| Fig20\_1 | Author's own |
| Fig20\_2 | Author's own |
| Fig20\_3 | Author's own |
| Fig20\_4 | Adapted from Maidment (2006). (Figures 20.4, 20.5, 20.6, 20.7, 20.8, 20.11–20.21 are adapted from the source cited in the Acknowledgments section of this book) |
| Fig20\_5 | Adapted from Maidment (2006) |
| Fig20\_6 | Adapted from Maidment (2006) |
| Fig20\_7 | Adapted from Maidment (2006) |
| Fig20\_8 | Adapted from Maidment (2006) |
| Fig20\_9 | Author's own |
| Fig20\_10 | Reproduced with permission |
| Fig20\_11 | Adapted from Maidment (2006) |
| Fig20\_12 | Adapted from Maidment (2006) |
| Fig20\_13 | Adapted from Maidment (2006) |
| Fig20\_14 | Adapted from Maidment (2006) |
| Fig20\_15 | Adapted from Maidment (2006) |
| Fig20\_16 | Adapted from Maidment (2006) |
| Fig20\_17 | Adapted from Maidment (2006) |
| Fig20\_18 | Adapted from Maidment (2006) |
| Fig20\_19 | Adapted from Maidment (2006) |
| Fig20\_20 | Adapted from Maidment (2006) |
| Fig20\_21 | Adapted from Maidment (2006) |
| Fig20\_22 | Author's own |
| Fig20\_23 | Author's own |
| Fig20\_24 | Author's own |
| UnFig20\_1 | Author's own |
| UnFig20\_2 | Author's own |
| UnFig20\_3 | Author's own |
| UnFig20\_4 | Author's own |
| UnFig20\_5 | Author's own |
| UnFig20\_6 | Author's own |
| Table20\_1 | Author's own |
| Fig21\_1 | Author's own |
| Fig21\_2 | Author's own |
| Fig21\_3 | Author's own |
| Fig21\_4 | (after Mukhopadhyay et al., 2009b) |
| Fig21\_5 | (after Mukhopadhyay et al., 2009b) |
| Fig21\_6 | Author's own |
| Fig21\_7 | Author's own |
| Fig21\_8 | Author's own |
| Fig21\_9 | Author's own |
| Fig21\_10 | Author's own |
| Fig21\_11 | Author's own |
| Fig21\_12 | Author's own |
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| Fig21\_18 | Author's own |
| Fig21\_19 | Author's own |
| Fig21\_20 | Author's own |
| UnFig21\_1 | Author's own |
| UnFig21\_2 | Author's own |
| UnFig21\_3 | Author's own |
| UnFig21\_4 | Author's own |
| UnFig21\_5 | Author's own |
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| Table21\_1 | Author's own |
| Table21\_2 | Author's own |
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| Table21\_12 | Author's own |
| Table21\_13 | Author's own |