

A. HYDROLOGY

3.2 Water Level and Discharge

3.2.1 River Flow Observation

Water level and discharge of the Brahmaputra and the Meghana are summarized as per Table A3.2-1. The locations of observation stations are shown in Map A3.2-1 and Map A3.2-2 which represent the Char Area and the Haor Area respectively. The duration of record differs from station to station or on the average of 38 years.

Monthly average maximum/minimum water level and discharge at five stations each along the Brahmaputra and the Meghana system are given in Appendix Table AA1 together with their graphical presentation.

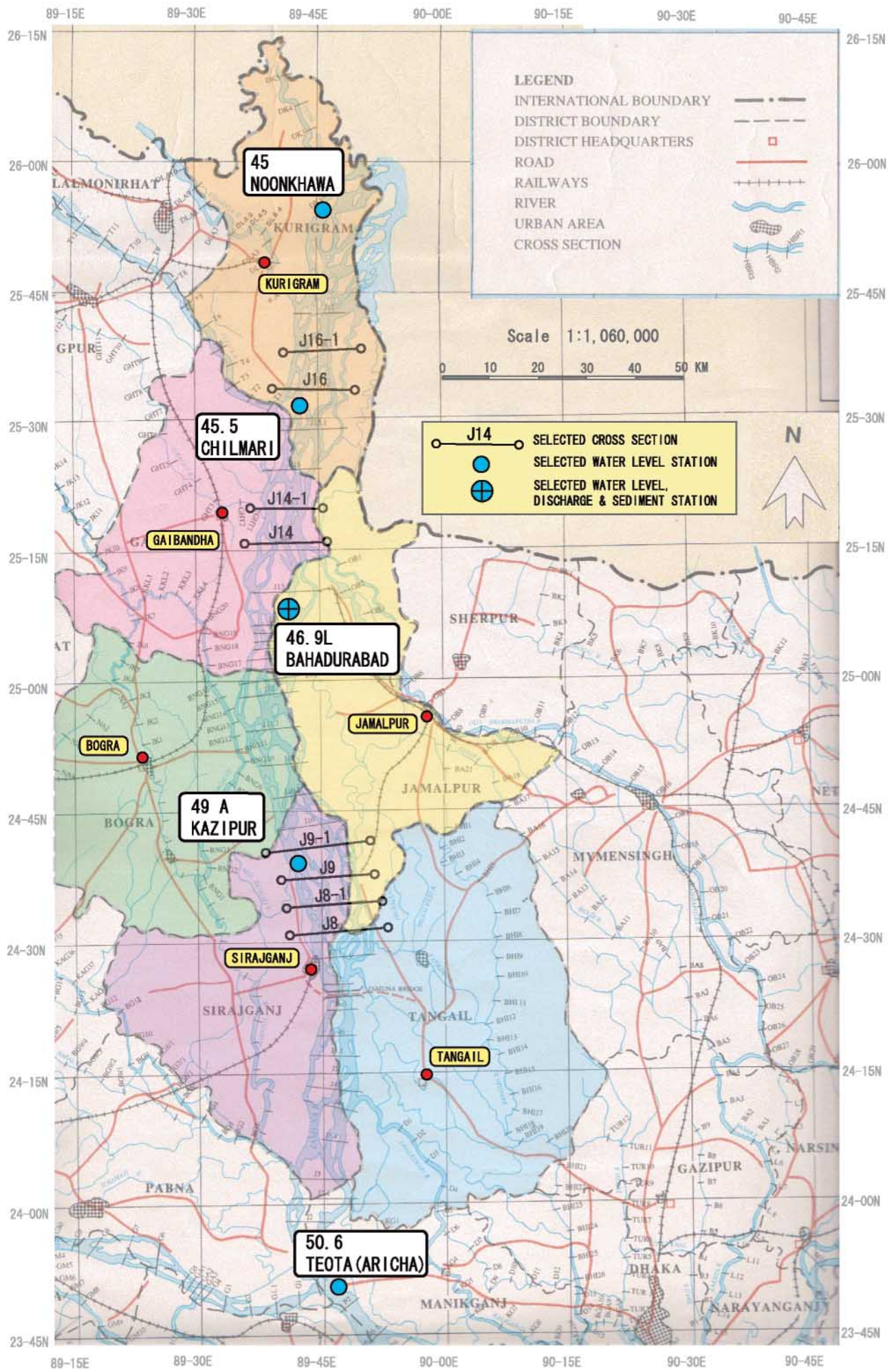
3.2.2 Discharge

In addition to the water level observation, discharge measurement has been conducted at Bahadurabad site of the Brahmaputra and at Bhairab Bazar site of the Meghana by BWDB Surface Water Hydrological Circle. Monthly maximum discharge of the Brahmaputra marked at 98,600 cum/s at the Bahadurabad observatory in August 1988. (See Appendix Table AA1-07) While, minimum discharge recorded 2,640 cum/s in February 1999. (See Appendix Table AA1-08)

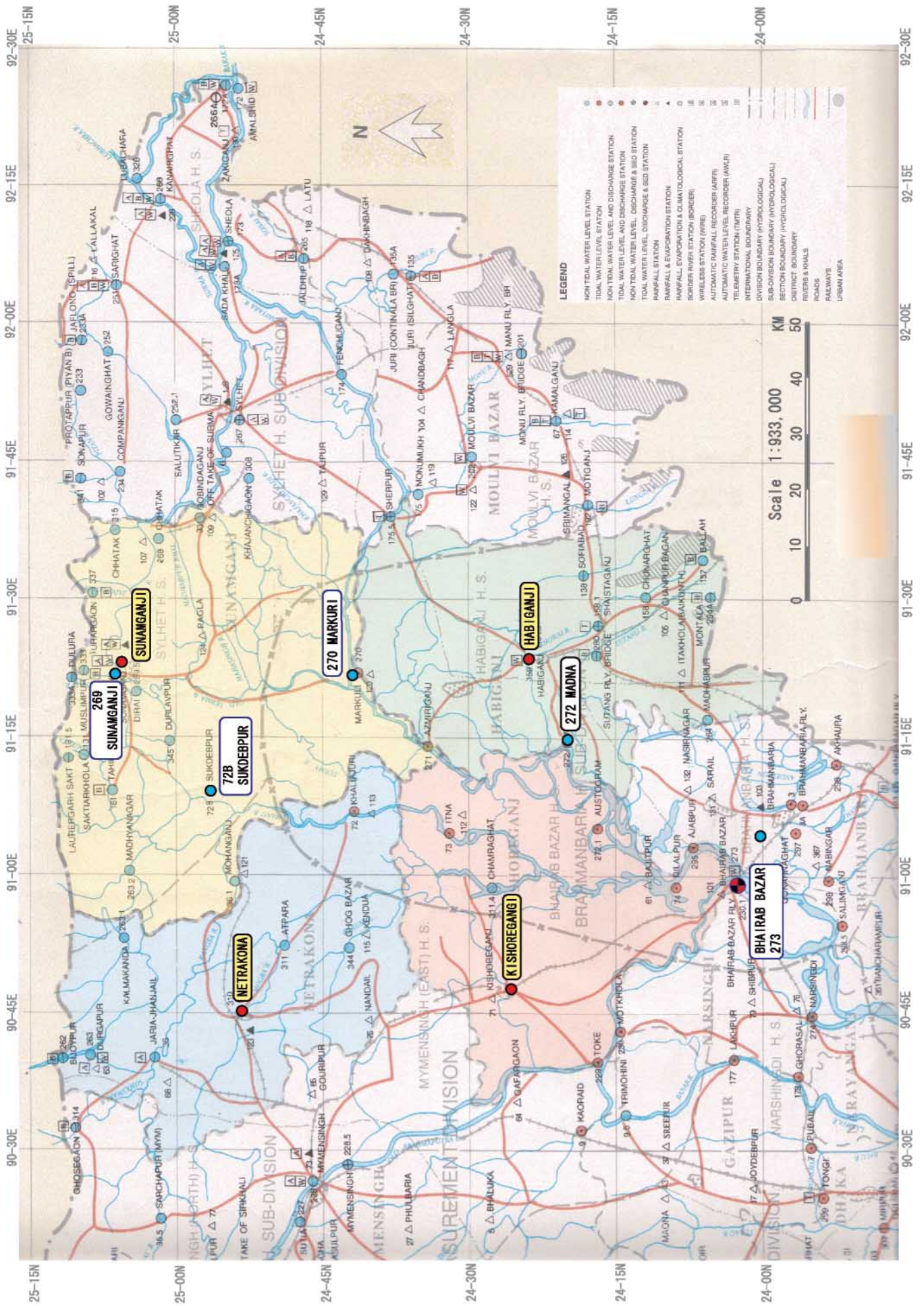
Monthly maximum discharge of the Meghana at the Bhairab Bazar observatory came up to 19,900 cum/s in July 1993 or second maximum 19,800 cum/s in July 1988. (See Appendix Table AA1-23) While, there are no discharge during December to May in most of the years. (See Appendix Table AA1-24) This is due to combined results of scarce runoff and tidal effect.

Table A3.2-1: Summary Table of Hydrological Stations

Table No.	Station No.	Station Name	Type	Unit Time	Max/Min	Unit	Area	River Name	Duration
AA1-01	45	Noonkhawa	Water Level	Month	Max	m	Char	Brahmaputra-Jamuna	1957-1999
AA1-02	45	Noonkhawa	Water Level	Month	Min	m	Char	Brahmaputra-Jamuna	1957-1999
AA1-03	45.5	Chilmari	Water Level	Month	Max	m	Char	Brahmaputra-Jamuna	1957-1999
AA1-04	45.5	Chilmari	Water Level	Month	Min	m	Char	Brahmaputra-Jamuna	1956-1999
AA1-05	46.9L	Bahadurabad	Water Level	Month	Max	m	Char	Brahmaputra-Jamuna	1949-2000
AA1-06	46.9L	Bahadurabad	Water Level	Month	Min	m	Char	Brahmaputra-Jamuna	1949-2000
AA1-07	46.9L	Bahadurabad	Discharge	Month	Max	cum/s	Char	Brahmaputra-Jamuna	1956-2000
AA1-08	46.9L	Bahadurabad	Discharge	Month	Min	cum/s	Char	Brahmaputra-Jamuna	1956-2000
AA1-09	49A	Kazipur	Water Level	Month	Max	m	Char	Brahmaputra-Jamuna	1967-2000
AA1-10	49A	Kazipur	Water Level	Month	Min	m	Char	Brahmaputra-Jamuna	1996-2000
AA1-11	50.6	Teota(Aricha)	Water Level	Month	Max	m	Char	Brahmaputra-Jamuna	1964-1998
AA1-12	50.6	Teota(Aricha)	Water Level	Month	Min	m	Char	Brahmaputra-Jamuna	1964-1998
AA1-13	72B	Sukdebpur	Water Level	Month	Max	m	Haor	Dhanu-Boulai	1982-1998
AA1-14	72B	Sukdebpur	Water Level	Month	Min	m	Haor	Dhanu-Boulai	1982-1999
AA1-15	269	Sunamganj	Water Level	Month	Max	m	Haor	Surma Meghna	1949-1999
AA1-16	269	Sunamganj	Water Level	Month	Min	m	Haor	Surma Meghna	1949-1999
AA1-17	270	Markuri	Water Level	Month	Max	m	Haor	Surma Meghna	1968-1999
AA1-18	270	Markuri	Water Level	Month	Min	m	Haor	Surma Meghna	1968-1999
AA1-19	272	Madna	Water Level	Month	Max	m	Haor	Surma Meghna	1957-2000
AA1-20	272	Madna	Water Level	Month	Min	m	Haor	Surma Meghna	1957-1994
AA1-21	273	Bhairab Bazar	Water Level	Month	Max	m	Haor	Surma Meghna	1959-1999
AA1-22	273	Bhairab Bazar	Water Level	Month	Min	m	Haor	Surma Meghna	1959-1999
AA1-23	273	Bhairab Bazar	Discharge	Month	Max	cum/s	Haor	Surma Meghna	1964-2000
AA1-24	273	Bhairab Bazar	Discharge	Month	Min	cum/s	Haor	Surma Meghna	1964-2000



Map A3.2-1: Morphological/Hydrological Map in Char Area



Map A3.2-2: Hydrological Map in Haor Area