

**CURRICULUM VITAE**

**PERSONAL INFORMATION:**

Name : **MD. NAZMUL AHASAN**  
Father's Name : Md. Jinnat Ali  
Mother's Name : Mrs. Shireen Ali  
Present Address : SAARC\* Meteorological Research Centre (SMRC)  
Plot No. E-4/C, Agargaon, Sher-e-Bangla Nagar,  
Dhaka-1207, Bangladesh.  
Contact No : Mob. :+88-01556 362736  
Email : nazmul\_smrc@yahoo.com  
Permanent Address : Vill-Chandpara, P.O.-Sachar, P.S.-Kachua,  
Dist.-Chandpur, Bangladesh.  
Date of Birth : 30 June, 1974.  
Sex : Male  
Marital Status : Married  
Nationality : Bangladeshi  
Religion : Islam

**EDUCATIONAL QUALIFICATIONS:**

Name of the Certificate	Group / Subject	Board / University	Division / Class/GPA	Passing Year
SSC	Science	Comilla	First	1989
HSC	Science	Comilla	First	1991
B.Sc. (Hon's)	Physics	National University	Second	1994
M.Sc.(Thesis)	Physics	National University	Second	1995
Higher Diploma	Computer Science	NTRAMS	A	2001
Ph. D	Atmospheric Physics	Jahangirnagar University	Continuing	

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\* South Asian Association for Regional Co-operation.

**COMPUTER TRAINING & SKILLS:**

1. Completed a Computer Training Course on "**Higher Diploma in Computer Science & Programming**" from "*National Training & Research Academy for Multilingual Shorthand (NTRAMS)*", Bogra, Bangladesh.
2. Completed a Computer Training Course on "**Practical Networking Using Windows NT-4 / 2000 & Linux**" from "*Karmayog Sangstha*", Shahbag, Dhaka.
3. Completed a Computer Training Course on "**PC Assembling, Maintaining and Troubleshooting**" from "*Bangladesh National Computer Institute (BNCI)*", Farmgate, Dhaka.
4. Completed a Computer Training Course on "**MS DOS, MS Windows, MS Word, MS Excel, MS Access, MS PowerPoint, Internet and E-mail**" from the "*Institute of Paradise Computer Centre*", Motijheel, Dhaka.
5. Completed a Programming Language Course on **FORTRAN-7.7** . This training course provided by **Dr. Kanti Prasad, Former Head, Theoretical Division, SMRC**.
6. Completed a 7 Days Training Course on "**SUN Solaris Operating System & SUN Server Administration**". This training course provided by *TEXAS ELECTRONICS LTD*, the supplier of SUN Server (SUNFIRE V480).
7. Completed a 7 Days Training Course on "**WebPages Design & Maintenance**". This training course provided by *WIN2WIN TECHNOLOGIES LTD*, the developer of SMRC Website ([www.saarc-smrc.org](http://www.saarc-smrc.org)).
8. Completed a Training Course on "**Conference System, P.A. System and Multimedia Projector Operating System**". This training course provided by *PAPON TRADE CENTRE*, the supplier of the above goods.

**OTHER COMPUTER SKILLS :**

9. Have installation and working experience on "**Grid Analysis and Display System (GrADS)**" in both Linux and Windows platforms.
10. Have installation and working experiences on "**WinSurfer**"
11. Have installation and working experiences on "**MATLAB**"
12. Have installation and working experiences on "**RClimDex**"
13. Have installation and working experience on Regional Climate Model **RegCM3, PRECIS, MM5 and WRF**
14. Have working experience on statistical data processing and time series analysis packages.
15. Have working experience on computer graphics packages like Adobe Photoshop, Adobe Illustrator etc.

**RESEARCH / JOB EXPERIENCES:**

SN	Position	Address	Period
04	Research Officer	SAARC Meteorological Research Centre (SMRC), Plot No. E-4/C, Agargaon, Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh. Ph :+88-02-9144374, +88-02-9124508, Fax :+88-02-9144373. Email : smrc@citech.net	Jan'09 to till the date
03	Research Assistant	SAARC Meteorological Research Centre (SMRC), Plot No. E-4/C, Agargaon, Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh. Ph :+88-02-9144374, +88-02-9124508, Fax :+88-02-9144373. Email : smrc@citech.net	From Nov'02 to Dec'08
02	Scientific Officer	Feasibility Study on R & D of Renewable Energy Technology ( Solar, Wind & Micro-Mini Hydro )-Project, Institute of Fuel Research & Development (IFRD) Bangladesh Council of Scientific & Industrial Research (BCSIR). Dr. Kudrat-E-Khuda Road,Dhanmondi,Dhaka-1205	From 19 April, 2000 to 30 June, 2002
01	National Science & Technology (NST) Fellow	Physics and Solar Energy Division, Atomic Energy Centre (AEC), Bangladesh Atomic Energy Commission (BAEC), Dhaka, Bangladesh and Department of Physics, Dhaka College, Dhaka, Bangladesh. Financed by the Ministry of Science, Information and Communication Technology, Bangladesh Secretariat, Dhaka, Bangladesh	17 May'1998 to 16 May'1999

**LIST OF THE PUBLICATIONS ON METEOROLOGY,  
CLIMATOLOGY AND ENVIRONMENT RELATED STUDIES IN  
DIFFERENT NATIONAL / INTERNATIONAL REPUTED JOURNALS AND  
PROCEEDINGS:**

**Published in the National / International Journal:**

**24 Study the Vulnerability of the Coastal Zone of Bay of Bengal Due to Tropical Cyclones**

Mohammad Sirajul Haque, Dewan Abdul Quadir, Md. Abdul Mannan Chowdhury, **M. N. Ahasan**, Shyeda Shamima Sultana  
Published in the Journal of “Jahangirnagar University Journal of Science” 2009, Vol.33, No.-2, pp69-81

**22. “A few Aspects of the Variability of Temperature and Precipitation of Bhutan”**

D. A. Quadir, M. A. Hussain, Md. Akram Hossain and **M. N. Ahasan**, Karma Chhophel & Kinzang Sonam

Published in the Journal of “THE ATMOSPHERE”, Bangladesh Meteorological Officer's Association, Bangladesh Meteorological Department (BMD), Dhaka, Bangladesh. Vol. No. 03 (June 2006) P. 59-70.

**23 “Climatic Characteristics of Temperature and Precipitation of Bhutan”**

Dewan Abdul Quadir, Md. Amirul Hussain, Md. Akram Hossain & **M. N. Ahasan**  
Karma Chhophel and Kinzang Sonam

Published in the Journal of “MAUSAM”, Mausam Bhawan, Lodi Road, New Delhi-110 003, India, Vol 58,1 (January 2003), 53-67.

**20. “Climatic Characteristics of Bhutan”**

D. A. Quadir, M. A. Hussain, Md. Akram Hossain and **M. N. Ahasan**

Published in the Journal of “THE ATMOSPHERE”, Bangladesh Meteorological Officer's Association, Bangladesh Meteorological Department (BMD), Dhaka, Bangladesh. Vol. No. 02 (June 2003)

**22 “Performance of a Low Cost Built-in-Storage Solar Water Heater”**

**M. N. Ahasan**, B.K.Sen, K.A.Khan, M.A.Hamid.

Published in the Journal of “NUCLEAR SCIENCE AND APPLICATIONS”, Bangladesh Atomic Energy Commission (BAEC), Dhaka-1000, Bangladesh. Vol. 8, No. 1-2, Dec'1999.

**Submitted for publication in a National Journal:**

- 21 “Onset, Withdrawal and Persistence of Summer Monsoon Over Bangladesh”**  
Afroza Bulbul, Tahmina Ferdous, D. A. Quadir and **M. N. Ahasan**  
Submitted for publication in the Journal of “JAHANGIRNAGAR PHYSICS STUDIES”, Department of Physics, Jahangirnagar University, Savar, Dhaka.
- 20 “Variability and Trends of Summer Monsoon Rainfall Over Bangladesh”**  
**M.N.Ahasan**, Md. Abdul Mannan Chowdhry, D.A.Quadir  
Accepted for Publication in the Journal of Hydrology and Meteorology, Society of Hydrology and Meteorology (SOHAM), Nepal.
- Published in the Proceedings**
- 19 “Simulation of a High Impact Rainfall Event on 14 September 2004 over Dhaka, Bangladesh Using a High Resolution Mesoscale Model MM5”**  
**M. N. Ahasan**, Md. Abdul Mannan Chowdhury, D. A. Quadir  
Published in the proceedings of the 13TH ASIAN CONGRESS OF FLUID MECHANICS (13ACFM), 17-21 December 2010, Dhaka, Bangladesh
- 18 “Sensitivity test of different cumulus parameterization schemes in MM5 modeling systems for estimation of monsoon heavy rainfall over Bangladesh”**  
**M. N. Ahasan**, Md. Abdul Mannan Chowdhury, D. A. Quadir  
Published in the proceedings of the 13TH ASIAN CONGRESS OF FLUID MECHANICS (13ACFM), 17-21 December 2010, Dhaka, Bangladesh
- 17 “Aviation hazards.....”**  
Someshwar Das and **M. N. Ahasan**  
Published in the proceedings of SAARC Seminar on “APPLICATION OF METEOROLOGY IN MITIGATING AVIATION HAZARDS” 14-15 June 2010, Colombo, Sri Lanka.
- 16 “A Diagnostic Study on Synoptic and Environmental Conditions Associated with Nor’westers in and around Bangladesh using MM5 Model”**  
**M. N. Ahasan**, M. N. Islam and Nazlee Ferdousi  
Published in the proceedings of SAARC Seminar on “NOR’WESTERS AND TORNADOES OVER THE SAARC REGION AND THEIR FORECASTING & PREPAREDNESS” Organized by SAARC Meteorological Research Centre (SMRC), Dhaka, Bangladesh during 20-21 August 2008.
- 15 “A Characteristics of Nor’westers in and around Bangladesh”**  
Nazlee Ferdousi , M. N. Islam, and **M. N. Ahasan**,  
Published in the proceedings of SAARC Seminar on “NOR’WESTER AND TORNADOES OVER THE SAARC REGION AND THEIR FORECASTING & PREPAREDNESS” Organized by SAARC Meteorological Research Centre (SMRC), Dhaka, Bangladesh during 20-21 August 2008.

14. **“A Few Aspects of the Flood Disaster Caused by Heavy Monsoon Rainfall in Bangladesh”**  
M. N. Ahasan, M. A. Mannan Chowdhury, D.A. Quadir  
Publication in the Proceedings of SAARC Seminar on “APPLICATION OF WEATHER AND CLIMATE FORECASTS IN THE SOCIO\_ECONOMIC DEVELOPMENT AND DISASTER MITIGATION” held on 05-07 August, 2007, Dhaka, Bangladesh.
13. **“Deficit And Excess Rainfall Condition Over Bangladesh”**  
D.A. Quadir, Md. Amirul Hussain, Md. Akram Hossain and M. N. Ahasan.  
Published in the Proceedings of SAARC Seminar on “AGRICULTURAL APPLICATIONS OF METEOROLOGY” held on 23-24 December, 2003, Dhaka, Bangladesh.
12. **“Depression Over The Bay Of Bengal And Its Long Term Frequency Variability”**,  
D.A. Quadir, Md. Amirul Hussain, Md. Akram Hossain, M. N. Ahasan.  
Published in the Proceedings of SAARC Seminar on “TROPICAL CYCLONE & STORM SURGES IN THE SOUTH ASIA REGION” held on 20-22 December, 2003 Dhaka, Bangladesh.
11. **“Long Term Variability of The Frequency of Tropical Cyclone Formation in the Bay of Bengal”**.  
Dewan Abdul Quadir, Md. Amirul Hussain and Md. Nazmul Ahasan.  
Published in the Proceedings of SAARC Seminar on “TROPICAL CYCLONES & STORM SURGES IN THE SOUTH ASIAN REGION” held on 20-22 December, 2003 Dhaka, Bangladesh.
10. **“Aridity Condition Over Bangladesh”**  
D.A. Quadir, M.A. Hussain, M.A. Mannan, Nazlee Ferdousi, M.N. Ahasan, Romee Afroz  
Published in the Proceedings of SAARC Seminar on “CLIMATE VARIABILITY IN THE SOUTH ASIAN REGION AND ITS IMPACTS” held on 10-12 December, 2002 Dhaka, Bangladesh
9. **“Solar Resource Monitoring in Bangladesh for PV Generation Studies”**  
H. Zaman, J.K. Saha, Monzur Morshed, M. N. Ahasan, Zannatul Ferdous  
Published in the Proceedings of “INTERNATIONAL CONFERENCE OF RENEWABLE ENERGY FOR RURAL DEVELOPMENT”, 19-21 January, 2002, Dhaka, Bangladesh.
8. **“Thermal Design Analysis Fresnel Reflecting Concentrator”**  
M. N. Ahasan, B. K. Sen, K.A. Khan, A. Hamid Khan.

Published in the Proceedings of the “4<sup>TH</sup> INTERNATIONAL CONFERENCE OF MECHANICAL ENGINEERING(ICME)”, Vol. 4, 26-28 December, 2001, Dhaka, Bangladesh

**7. “Study of Black Chrome Solar Selective Coating”**

B. K. Sen, **M. N. Ahasan**, K.A. Khan, A. Hamid Khan.

Published in the Proceedings of the “4<sup>TH</sup> INTERNATIONAL CONFERENCE OF MECHANICAL ENGINEERING (ICME)”, Vol.4, 26-28, December, 2001, Dhaka, Bangladesh

**Presented in the Seminar and may be published in the Proceedings:**

**6. “Monsoon Activities Over Bangladesh”**

D.A.Quadir, Md. Amirul Hussain, Md. Akran Hossain, **M.N.Ahasan**, Mizanur Rahman, Nazlee Ferdousi

Presented in the SAARC Seminar on “MONSOON DYNAMICS” held on 14-16 June, 2004, Thimphu, Bhutan

**5. “Spatial and Temporal Distribution of Tornadoes and its Trend in Bangladesh”**

Md. Amirul Hussain, Dewan Abdul Quadir, **M. N. Ahasan**

Presented in the SAARC Seminar on “LOCAL SEVERE STORMS OVER SOUTH ASIAN REGION” held on 28-30 December, 2004, Dhaka, Bangladesh.

**4. “Climatological Features of Nor'westers and its Trend in Bangladesh”**

Md. Amirul Hussain, Dewan Abdul Quadir, **M. N. Ahasan**

Presented in the SAARC Seminar on “LOCAL SEVERE STORMS OVER SOUTH ASIAN REGION” held on 28-30 December, 2004, Dhaka, Bangladesh.

**Abstract Published in the Proceedings:**

**3. “Design and Performance Study of a Solar Water Heater for Practical Utilization in Bangladesh”**

**M. .N. Ahasan**, K.A.Khan and R.A.Motin

Abstract Published in the Proceedings of the “TWENTIETH BANGLADESH SCIENCE CONFERENCE”, Organized by Bangladesh Association for the Advancement of Science (BAAS) in November 20-23,1998 (Section three) at Bangladesh University of Science & Technology ( BUET ), Dhaka-1000,Bamgladesh.

**2. “Performance and Modeling of Latent Heat Stores”**

**M. N. Ahasan**, A.Hamid Khan and K.A. Khan

Abstract Published in the Proceedings of the “TWENTIETH BANGLADESH SCIENCE CONFERENCE”, Organized by Bangladesh Association for the Advancement of Science (BAAS) in November 20-23,1998 (Section Three) at Bangladesh University of Science & Technology ( BUET ), Dhaka-1000,Bamgladesh.

**Project Completion Report (PCR) cum M. Sc. Thesis Dissertation:**

1. **“Design and Performance Study of Solar Fresnel Reflecting Concentrator & Low Cost Built-in-Storage Solar Heater”**

**M. N. Ahasan**

M.Sc Thesis Dissertation, Submitted to the National University in Partial Requirements for the Degree of Masters of Science and also submitted to the Ministry of Science and Information & Communication Technology (SICT) as this project is financed under National Science & Technology (NST) Fellowship programs.

**PARTICIPATING IN THE STUDIES:**

- 10 Long-term Forecasting of Rainfall and Temperature in the SAARC Region using RCM: Part 1-Calibration, (SMRC Report No.30), **Co-author**
- 09 Drought Diagnosis and Monitoring over Bangladesh and Nepal (SMRC Report No. 26), **Co-author**
- 08 Studies on summer monsoon rainfall using Regional Climate Model PRECIS (SMRC Report No. 22)
- 07 Understanding the rainfall climatology and detection of extreme weather events in SAARC region: Part-I Bangladesh (SMRC Report No. 21), **Co-Author**
06. Rainfall Over SAARC Region with Special Focus on Teleconnection and Long Range Forecasting over Bangladesh Monsoon Rainfall. (SMRC Report No. 19)
05. The Impacts of Climate Variability on the Yield on Rain-Fed Rice of Bangladesh (SMRC Report No. 18)
04. Inter-annual and Intra-seasonal Variability of Temperature and Precipitation in Bhutan (SMRC Report No. 13)
03. The Status of Climate Variability in Pakistan and Its Impacts (SMRC Report No. 10)
02. **Final Report on the Feasibility Study on R & D of Renewable Energy Technology (Solar, Wind & Micro-Mini Hydro) Project**
01. **Design and Performance Study of Solar Fresnel Reflecting Concentrator & Low Cost Built-in-Storage Solar Water Heater"**

**METEOROLOGICAL TRAINING** :

**ABROAD:**

- 13 Attended the "South Asia Workshop on Regional Climate Modeling" Organized by APN Capable Project in Collaboration with Abdus Salam International Centre for Theoretical Physics ( ICTP), 16-27 February, 2004, Islamabad, Pakistan.



HOME:

- 12 Successfully completed a Training Course Entitled "**Oceanography: Principles and Applications**" from 8 April to 30 June 2006. Organized by National Oceanographic and Maritime Institute (NOAMI), Dhaka, Bangladesh.
- 11 Successfully completed a four-week Certificate Course in "**Geographic Information Systems (GIS)**", Organized by the Department of Geography and Environment, Jahangirnagar University, Savar, Dhaka, during May 12 to June 8, 2008.
- 10 Attended the training Workshop on "**Numerical Weather Prediction (NWP) using FSU and NRSM Models**" Organized by Bangladesh Computer Council (BCC), Dhaka, Bangladesh in collaboration with Dr. T. N. Krishnamurti's NWP Laboratory at Florida State University (FSU), USA, 3-7 June 2006.
- 09 Attended in the Workshop on "**Regional Climate Model (PRECIS)**", Organized by SAARC Meteorological Research Centre (SMRC), Dhaka, Bangladesh, during 17-19 Dec, 2006
- 08 Attended the short Course in "**Climate Change Risk and Adaptation in Water Sector**" Organized by Directorate of Contributory Education (DCE), In collaboration with Institute of Water and Flood management (IWFM), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh held during 10-11 February, 2008.
- 07 Attended the Seminar on "**Application of Weather and Climate Forecasts in the Socio-economic Development and Disaster Mitigation**" during 05-07 August 2007, organized by SMRC, Dhaka, Bangladesh
- 06 Attended in the Training Workshop on "**Monitoring and Early Warning of Droughts**" organized by SAARC Meteorological Research Centre (SMRC), Dhaka, Bangladesh, during 28-30 Nov, 2005.
- 05 Attended the "**National Training Workshop on Renewable Energy Application For Rural Areas of Bangladesh**" held from 18<sup>th</sup> Aug – 24<sup>th</sup> Aug, 2001, Organized by Dept. of Mechanical Engineering, BUET, Bangladesh.
- 04 Attended the Seminar on "**Nor'westers and Tornadoes Over SAARC Region and their Forecasting and Preparedness**", Organized by SAARC Meteorological Research Centre (SMRC), Dhaka, Bangladesh, during 20-21 August, 2008.
03. Attended the "**Short Course on Photovoltaic Technology for Bangladesh**" held from 12<sup>th</sup> March – 16<sup>th</sup> March, 2001 in association with the Center for Renewable

Energy Systems Technology ( CREST ), Loughborough University, UK and Dept. of Mechanical Engineering, BUET, Bangladesh.

02. Attended the "**Twentieth Bangladesh Science Conference**" Organized by Bangladesh Association for the Advancement of Science ( BAAS ), 20 – 30<sup>th</sup> November'1998
01. Attended the "**Workshop on Solar Technology for Every Day Use**" held from 10<sup>th</sup> Jan –11<sup>th</sup> Jan, 1998 at CIRDAP Auditorium, Dhaka, Organized by ANANDO ( A German NGO ).

**FIELD OF INTEREST:**

Climate Modelling, Monsoon Meteorology, Climate Variability, Remote Sensing and GIS.

**LANGUAGE PROFICIENCY:**

Full proficiency with reading, writing and speaking of both Bengali and English

(Completed a English Language Course from F.M. Institute, Farmgate, Dhaka, Bangladesh)

**MEMBERSHIP OF THE PROFESSIONAL BODIES:**

01. **Associate Member**, Bangladesh Computer Society (BCS).
02. **Member**, Bangladesh Solar Energy Society (BSES).
03. **Life Member**, Centre for Science Studies and Research (CSSR)

**MAILING ADDRESS:**

**Md. Nazmul Ahasan**

Research Offiver

SAARC Meteorological Research Centre (SMRC)

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**REFERENCES:**

- (a) Dr. D. A. Quadir  
Chairman, Department of Physics

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Tel.:+88-02-9144374, Ext.314  
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- (b) Prof. Dr. D. A. Quadir  
Chairman, Department of Physics  
Uttara University,  
Dhanmondi (City Campus)  
Cell.:+88-01717  
Email :dquadir@yahoo.com

I hereby certify that the above-mentioned details are true and correct to the best of my knowledge.



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(Md. Nazmul Ahasan)

20 January, 2011.