SHORT CURRICULUM VITAE (CV)

Name : SUJIT KUMAR DEBSARMA
 Father's Name : Sudhir Kumar Debsarma

3. Mother's Name : Kanika Rani Debsarma

4. Permanent Address : Vill.: Ratandia, P.O.: Ratandia

P. S.: Kalukhali, Upazilla: Kalukhali

Distt.: Rajbari

5. Mailing Address : Apartment Name: Manama Chitra

Flat# 2A, House # 13, Road # 11 (New), 32 (Old),

Dhanmondi, Dhaka-1209, Bangladesh.

Cell Phone: +880 1818383404 e-mail: sujit.debsarma@gmail.com

6. Date & Place of Birth: 13 February 1953.

Bheramara, Kushtia, Bangladesh.

7. Marital Status / Family: Married, One daughter

8. Nationality : Bangladeshi by birth.

9. Education :

Name of the Examination	Name of the Institution	Year of Passing	Division/ Class	Board/Univ.
S. S. C. (Science)	Ratandia R. K. High School, Rajbari	1970	First Division	Dhaka Board
H. S. C. (Science)	Rajbari College, Rajbari	1972	First Division	Dhaka Board
B. Sc. (Hons.)	Department of Mathematics, D. U.	1975 held in 1977	Second Class	Dhaka University
M. Sc. (Applied Mathematics)	Department of Mathematics, D. U.	1976 held in 1978	First Class	Dhaka University

10. Honours / Awards Received Based on:

(a) 13th SAARC Regional Research Award for Encouragement to Young Scientists in Meteorology (1995) awarded by the Technical Committee on Environment and Meteorology (TCEM) in recognition of the development of the model and research paper entitled:

"Storm Track Prediction (STP) Model". It was sponsored by Pakistan.

(b) Obtained Board and University scholarships at all levels.

11. **Special Training:**

- (a) Meteorology, Agro-meteorology & Hydrology Related:
- i. WMO Prescribed "Class-II Forecaster's Course" in Meteorology, BMD (1981-82).

Result: Excellent (First Position).

- ii. On-the-job Training on Aviation Meteorology, BMD. iii. Disaster Preparedness. iv. Numerical Weather Prediction.
- v. WMO Regional Training on Tropical Cyclones and Forecasting Techniques.
- vi. FAO/WMO Seminar on the Application of Climatic Data for Effective Planning & Management of Water for Sustainable Irrigated Crop Production at BMD, Dhaka: 20 Jun 02 July, 1992.
- vii. Training Workshop on Global Change and Tropical conducted by South Asian START Committee (SASCOM) and Bangladesh Academy of Sciences in Dhaka during 18-21 Dec., 1995.
- (b) Remote Sensing or Radar/Satellite based:
- viii. Training Course on "Satellite Imagery Interpretation and Application to Weather Forecasting". Training conducted by the famous NASA (Goddard Space Flight Center) Scientist Vincent Oliver at SPARRSO, Dhaka, Bangladesh during 23 Nov. 12 Dec. 1985. **Result: Distinction**.
- ix. Two Week Training Course on "Satellite Oceanography". Training organized by USAID, NASA & SPARRSO at SPARRSO, Dhaka, Bangladesh during 11-26 June, 1988.
- x. Training Course on the Remote Monitoring Display System conducted by Mitsubishi Electric Corporation, Japan at BMD, Dhaka: 15-16 April, 1994.
- (c) *Computer Related Training:*
- xi. Computer Programming in BASIC and FORTRAN for a period of three months in February April, 1990 at Institute of Binary Information Systems, Computer Network, Dhaka. **Grade: "A"**.

- xii. Course on Introduction to VAX/VMS Utilities & Commands and System Management conducted by Jaffer Brothers (Pvt.) Limited, digital Co, Pakistan at BMD, Dhaka: 19-22 July, 1990.
- xiii. Training Course on AUTOFAX 2005 (NOAA & Meteor Satellite image receiving system) conducted by Sinclair Imaging Systems Ltd., UK at BMD, Dhaka during 2022 August, 1991.
- xiv. Two Week Course on Basics of the UNIX Operating System and System Administration conducted by Bureau of Meteorology, Australia and Flora Limited, Dhaka, Bangladesh: October, 2000.
- xv. Combined Modeling and Data Management (Unix OS), Oostende, Belgium in 2005.
- xvi. Training Workshop on Numerical Weather Prediction (NWP) Modeling conducted by Dr. Vijay Tallapragada, Researcher & Scientist from Florida State University, Tallahassi, USA at Bangladesh Computer Council (BCC), Dhaka: 2001 (04 days).
- xvii. Training Workshop on Numerical Weather Prediction (NWP) Modeling conducted by Dr. Vijay Tallapragada, Scientist from NOAA/NCEP, USA at Bangladesh Computer Council, Dhaka: 03-06 June 2006.
- (d) Computer Modeling of Storm Surge:
- **xviii.** Storm Surge Model and its Formulation at the Indian Institute of Technology (IIT), Kharagpur, India under the auspices of WMO (guided by Prof. S.K. Dube, Director, IIT, Kharagpur and Dr. Indu Jain, IIT New Delhi, India) during 19-30 August, 2002.

Performance: Excellent.

- xix. First WMO/JCOMM Combined Modeling and Data Management (Unix OS), Oostende, Belgium in 2005.
- xx. JCOMM/IOTWS Tsunami Modeling: Bangkok, Thailand in July 2007.
- xxi. WMO/JCOMM Scientific and Technical Symposium on Storm Surges, Seoul, Republic of Korea in October 2007.

12. Service Records / Work Experience:

- i) **Sonali Bank, Dhaka:** Probationary Officer (over one month in 1979).
- ii) **Bangladesh Meteorological Department:** 27 April 1981 to 12 February 2010 at various capacities (Assistant Meteorologist (First Class Gazetted), Meteorologist (Sr. Class-I), Assistant Director (Principal Meteorologist) & System Manager and Acting Deputy Director).
- iii) **SAARC Meteorological Research Centre (SMRC)**: Scientist, Theoretical Division (07 May 2009 12 June 2013).

13. Services Rendered:

a) Forecasting of weather including nor'westers/tornado, tropical cyclones, monsoons, and aviation meteorology for about 6 years as Duty Forecasting Officer, about 20 years as the Meteorologist-in-Charge of the Storm Warning Centre (SWC), Member-Secretary of the National Long Range Weather Forecasting Committee and Computer System Manager, Drawing and Disbursing Officer of SWC and Research on Meteorology, Climatology and Storm Track / Storm Surge Modeling. A PC-based meteorological

software package METEOR by name (for routine meteorological works for FAO, Long Range Weather Forecast, Storm Track & Storm Surge Models) and Tsunami model are developed at the Storm Warning Centre of BMD. <u>The Storm Track Prediction Model got the thirteenth SAARC Award-1995.</u>

- b) Teaching of Meteorology and Computer Programming in the Meteorological Training Institute of BMD, Dhaka for about 20 years, looked after administration, assisted the Deputy Director (SWC), the Deputy Director (Meteorological Training Institute of BMD) and the Director for solving complex meteorological problems, preparing technical documents etc. as Assistant Meteorologist, Meteorologist and Assistant Director. Acted as Deputy Director of SWC as and when needed.
- c) Trained the Assistant Research Officers and Research Officers of SMRC on Fotran90/95 Programming and scripting in Linux/Perl, GrADS etc.
- d) Carried out collaborative research with India Meteorological Department (IMD), Indian Institute of Technology (IIT, Delhi) and National Centre for Medium Range Weather Forecasting (NCMRWF, NOIDA, India) on Data Assimilation into Advanced Research on WRF (ARW) Model (2010-11).

14. Subjects taught in the Meteorological Training Institute of BMD:

Physics, Hydrodynamics, Dynamic Meteorology and Numerical Weather Prediction, Synoptic Meteorology, Air—Sea Interaction, Mathematics, Statistics, Weather Analysis and Prediction, Computer Programming, Storm Track / Storm Surge and Tsunami Propagation Modeling.

15. Weather Forecasting and System Management:

Looked after weather forecasting (short, medium and long range) and technical matters, Computer System Administration (HP-Unix, PC-Linux, Windows 2000/ME/XP/98/NT) of the Storm Warning Centre (SWC) and of the clients under the BMD's LAN/WAN, issuance of special weather forecasts for the VVIP's, issuance of date specific forecasts for different users and agencies.

16. Research Guide /Supervision of M.S./ M.Phil./Ph.D. Theses:

- 1) Guided a number of M.S. /M.Phil. Level students (Physics Deptt.) of Dhaka University, (Statistics and Environmental Sc. Deptt.) of Jahangirnagar University, (Electrical & Electronics and Civil Engg. Deptt.) of BUET.
- 2) Guided a number of B.Sc. (Engg.) students on Artificial Intelligence (AI) of Bangladesh University of Engineering & Technology (BUET), Stamford University.
- 3) Acted as External Examiner (Meteorology & Atmospheric Science) of Dhaka University (Physics Deptt.) and External Examiner (Storm Surge Modeling, Mathematics Deptt.) of Shahjalal University of Science & Technology (SUST).
- 4) Guided one M.S. Student of Dhaka University (Physics Deptt.) on my own Storm Track Prediction (STP) Model & Steering and Persistence (STEEPER) Model in 2005-06.

- 5) Guided one M.S. (Thesis) and one M.Phil. Students of Dhaka University (Physics Deptt.) on IIT Storm Surge Model in 2005-06 and 2008 respectively.
- 6) Evaluated Papers for Shahjalal University of Science & Technology SUST Journals.
- 7) Guided four M.S. Students in Atmospheric Sciences, Dhaka University in 2007-08) Guided four M.S. Students in Atmospheric Sciences, Dhaka University in 2008-09) Co-guided one Ph. D. student from the University Science Malaysia.
- 10) Guided four M.S. Students in Atmospheric Sciences, Dhaka University in 2009.
- 11) Guided three M.S. Students in Atmospheric Sciences, Dhaka University in 2010.
- Guided one M.S. Student of Shahjalal University of Science & Technology (SUST) (Mathematics Deptt.) on IIT Storm Surge Model in 2010-11.
- Co-Guided one PhD student (Dr. Azizur Rahman), Deptt. of Appl. Maths., Rajshahi University (2009-2011) and one PhD student (Dr. Md. Abdur Rouf, Deputy Secretary of GoB), Deptt. of Env. Sc., Jahangirnagar University (2010-2012).

13. Visits Abroad:

- i). Manila, Philippines: Attended the International Workshop on Tropical Cyclones- II (IWTC-II) held in Manila during 14-19 November, 1989.
- ii). Bangkok, Thailand: Stopover in 1989 (night halts) while going to and returning from Philippines.
- iii). Colombo, Sri Lanka: Participated in the WMO Workshop on Cyclonic Storms and Storm Surges held in Colombo during 11-15 November, 1991.
- iv). Kolkata & Chennai, India: Stopovers (two way two nights halts) while going to and returning from Sri Lanka in Nov. 1991.
- v). Canada: Participated in the Bay of Bengal Warning of Extreme Surges (BeWARES) held in the University of Victoria, Victoria, BC, organized by AXYS Environmental Inc. 12-14 September 1994.
- vi). Singapore: Stopover in 1994 (night halt) while proceeding towards Canada.
- vii). Seoul, Korea: Stopover in 1994 while proceeding towards Canada.
- viii). Hong Kong: Stopover in 1994 (night halt) while returning from Canada.
- ix). India: Worked as an expert of storm surge from Bangladesh in the "Formulation of Storm Surges in the Bay of Bengal and the Arabian Sea" at IIT, Kharagpur, India during 19-30 August 2002.
- x). Oostende, Belgium: Combined Modeling and Data Management (Unix OS), Oostende, Belgium during 05-10 September 2005.
- xi). Brussels, Belgium: Stopovers (two way) in 2005 while going to and returning from Ostend.
- xii). London, UK: Stopovers (two way) in 2005 while going to and returning from Belgium.
- xiii). Bangkok: UNESCO/IOC & ICG/IOTWS Training Seminar on Numerical Tsunami Inundation Modeling held at Chulalongkorn University, Bangkok during 29 June 06 July 2007.
- xiv). Seoul, Korea: First WMO/JCOMM Scientific and Technical Symposium on Storm Surges, Seoul, Republic of Korea, 02-06 October, 2007.
- xv). Dubai: Stopover in 2007 (two way while going to and returning from Korea).
- xvi). Islamabad, Pakistan: Seminar on "Interaction between Westerly and Easterly Troughs and their Impacts on Weather over the SAARC Region", Islamabad, Pakistan: 08-09 June, 2009.

- xvii) Dubai: Stopover in 2009 (two way while going to and returning from Pakistan). xviii) New Delhi, India: UNESCO Conference on Climate Change, Delhi Technological University, 08-10 Aug, 2009.
- xix) Colombo, Sri Lanka: Seminar on "Application of Meteorology in Mitigating Aviation Hazards", 14-15 June, 2010.
- xx) Bangkok (Suvarnabhumi Int'l Airport): Two way stopovers while going to and returning from Sri Lanka.
- xxi) New Delhi and Uttar Pradesh (NOIDA): Collaborative research between SMRC and IMD, IIT-Delhi & NCMRWF on WRF Data Assimilation (Synop, AWS & Upper-Air), 16-27 August 2010.
- xxii) New Delhi and Uttar Pradesh (NOIDA): Collaborative research between SMRC and IMD, IIT-Delhi & NCMRWF on WRF Data Assimilation (Synop, AWS & Radar), 10-19 July 2011.
- xxiii) Kathmandu, Nepal: Seminar on "Results & Review of Field Experiments", Organized by SMRC & DHM, Nepal, 21-23 Dec 2011.
- xxiv) New Delhi, India: International Conference on Indian Ocean Tropical Cyclone and Climate Change, Organized by WMO and IMD, 14-17 Feb 2012. xxv) Kathmandu, Nepal: 2nd Meeting of the Inter-Governmental Expert Group on Climate Change (IGEG.CC), SAARC Secretariat, 16-17 Apr 2012.
- xxvi) Thimpu, Bhutan: Seminar on "Heavy Rainfall Forecasts by NWP Model & its Validation over SAARC Region" 13-17 May 2012 and then **imparted Hands-on Training to Hydro-Meteorologists of DHMS, Bhutan on WRF Modeling,** during 18-23 May 2012.
- xxvii) Islamabad, Pakistan: 5th International Programme Committee (IPC) Meeting of SAARC STORM followed by a Scientific Seminar, organized jointly by Pakistan Meteorological Department and source Meteorological Research Centre (SMRC), 03-06 September 2012.
- xxviii) Dubai: Two –way stopovers (to and from Islamabad) on 01 and 07 September 2012.
- xxix) Kathmandu, Nepal: Imparted hands-on training to Meteorological Personnel of the Department of Hydrology & Meteorology (DHM, Nepal) on WRF Modeling and Data Assimilation during 03-07 December 2012.
- xxx) Singapore: Stopover on 04 April 2013 on the way to Maldives from Bangladesh.
- XXXI) Male & Hulhule, Maldives: Imparted Hands-on training to Meteorological Personnel of the Maldives Meteorological Services (MMS, Maldives) on WRF Modeling and Data Assimilation during 05-12 April 2013.
- xxxii) Doha: Two-way stopovers to and from Pakistan on 13 & 21 April 2013.
- xxxiii) Islamabad, Pakistan: Imparted Hands-on training to Meteorological Personnel of Pakistan

 Meteorological Department (PMD) on WRF Modeling and Data Assimilation during 14-21 April 2013.
- xxxiv) Colombo, Sri Lanka: **Imparted Hands-on training to Meteorological Personnel of the Department of Meteorology on WRF Modeling and Data Assimilation** during 01-14 February 2015.
- xxxv) Kuala Lumpur and Lankawi, Malaysia: Personal visit during 24-29 August 2017.

14. Seminar/Conference/Experiment Related to Computer Modeling Attended

Sl.	Seminar/Conference	Place	Period		Participation/
No.			From	То	Pape r presented
1	Training Course on "Satellite Imagery Interpretation and Application to Weather Forecasting", conducted by	Bangladesh	23.11.85	12.12.85	Trainee: Result: Distinction.

	NASA (Goddard Space Flight Center) Scientist Vincent Oliver at SPARRSO.				
2	Workshop on Numerical Weather Prediction, arranged by SPARRSO.	Dhaka, Bangladesh	18.10.86	12.11.86	Participated
3	Two Weeks Training Course on Satellite Oceanography, Conducted by NOAA/NASA (US) Scientists at SPARRSO, Dhaka, Bangladesh in 1988.	Dhaka, Bangladesh	11.06.88	26.06.88	Participated
4	Training Seminar on Environmental Management in Bangladesh organized by BUETESCAP/UNDP/ ADB.	Dhaka, Bangladesh	15.05.89	18.05.89	Participated
5	International Workshop on Tropical Cyclones (IWTC-II)	Manila, Philippines	14.11.89	19.11.89	Represented Bangladesh
6	WMO/ESCAP Panel on Tropical Cyclone, 17 th Session.	Dhaka, Bangladesh	30.01.90	05.02.90	Participated
7	IOC-UNEP Workshop on Impacts of Sea-Level Rise due to Global Warming, organized by NOAMI, Bangladesh.	Dhaka, Bangladesh	16.11.92	19.11.92	Climate Change in Bangladesh- A Statistical Review
8	Bay of Bengal Warning of Extreme Surges (BeWARES) held in the University of Victoria, Victoria, BC, organized by AXYS Environmental Inc., Canada.	Victoria, BC, Canada	12.09.94	14.09.94	Storm Track Prediction (STP) Model. Resource Person
9	Seminar on Monsoon Dynamics, organized by Bangladesh Academy of Sciences, International GeosphereBiosphere Programme, Bangladesh and Humboldt Club, Bangladesh.	Dhaka, Bangladesh	01.11.94	-	Participated
10	International Symposium on Natural Disasters: Bangladesh Perspective, Organized by Bangladesh Academy of Sciences.	Dhaka, Bangladesh	27.3.95	30.3.95	Storm Track Prediction (STP) Model. Resource Person

11	Training Workshop on Global Change and Tropical Cyclones conducted by South Asian	Dhaka, Bangladesh	18.12.95	21.12.95	Steering and Persistence (STEEPER) Model
	START Committee (SASCOM) and Bangladesh Academy of Sciences in Dhaka.				for Storm Track Prediction.
12	Seminar on "Weather and Constraints of Weather Forecasting in Respective Country of the SAARC Region", Organized by SAARC Meteorological Research Centre (SMRC)	Dhaka, Bangladesh	11.7.99	12.7.99	Cyclone Forecasting and its Constraints in the Bay of Bengal. Resource person.
13	Training Workshop on Numerical Weather Prediction (NWP) Modeling conducted by Dr. Vijay Tallapragada, Researcher & Scientist from Florida State University, Tallahassi, USA at Bangladesh Computer Council (BCC), Dhaka.	Dhaka, Bangladesh	04 days in 2001		Participant
14	"Formulation of Storm Surges in the Bay of Bengal and the Arabian Sea" at IIT, Kharagpur, India.	IIT, Kharagpur, India	19.08.02	30.08.02	Worked as an expert of storm surge from Bangladesh
15	SAARC Seminar, Organized by SAARC Meteorological Research Centre (SMRC), Dhaka, Bangladesh.	Dhaka, Bangladesh	20.12.03	22.12.03	Visualization of May 1997 Storm Surge by Using IIT Model.
16	IODE/GOOS/JCOMM Combined Modeling and Data Management Training Workshop ("Jamboree").	IOC//IODE Project: Oostende, Belgium	05.09.05	10.09.05	Participant
17	Training Workshop on Numerical Weather Prediction (NWP) Modeling conducted by Dr. Vijay Tallapragada, Scientist from NOAA/NCEP, USA at Bangladesh Computer Council	Dhaka, Bangladesh	03.06.06	06.06.06	Participant
18	JCOMM/IOTWS Tsunami Modeling in July 2007.	Bangkok, Thailand	28.06.07	07/06/07	Resource Person

19	WMO/JCOMM Scientific and Technical Symposium on Storm Surges, in October 2007.	Seoul, Republic of Korea	30.09.07	07/10/07	Resource Person and Rapporteur
20	Seminar on "Interaction between Westerly and Easterly Troughs and their Impacts on Weather over the SAARC Region", 08-09 June, 2009.	Islamabad, Pakistan	08/06/09	10/06/09	Resource Person
21	2 nd International Programme Committee (IPC) Meeting for SAARC STORM	SMRC, Dhaka	02/08/09	03/08/09	Member IPC
22	UNESCO Conference on Climate Change, Delhi Technological University, 08-10 Aug, 2009.	New Delhi, India	08/08/09	10/08/09	Resource Person, Chairman & Rapporteur
23	Training Workshop on Weather Research & Forecasting (WRF) Model	SMRC, Dhaka	04/10/09	08/10/09	Resource Person
24	International Forum on Tornado Disaster Risk Reduction for Bangladesh	Dhaka, Bangladesh	13.12.09	14.12.09	Participant
25	Opinion Sharing Meeting on Media Reporting on Disaster. Organized by Management and Resources Development Initiative (MRDI) Venue: Best Western Hotel La Vinci, Kawran Bazar, Dhaka.	Dhaka, Bangladesh	26.12.09	One day	Discussant
26	National Monsoon Forum, organized by ADPC and BMD	Dhaka, Bangladesh	05.01.10	06.01.10	Invited Guest
27	Seminar on "Application of Meteorology in Mitigating Aviation Hazards", Colombo, Sri Lanka 14-15 June, 2010	Colombo, Sri Lanka	14/06/10	15/06/10	Resource Person, Member Secretary
28	3 rd SAARC STORM IPC Meeting held at SMRC, Dhaka during 01-02 August 2010.	SMRC, Dhaka	01/08/10	02/08/10	Member IPC
29	Collaborative research between SMRC and IMD, IIT-Delhi & NCMRWF on WRF Data Assimilation (Synop, AWS & Upper-Air)	Delhi & NOIDA (UP)	16.08.10	27.08.10	Collaborative Research Program
30	Training Workshop on Doppler Weather Radar	Kolkata, India	09/11/10	13/11/10	Organizer/Resource Person

InterGovernmental Expert Group on Climate Change (IGEG.CC) 39 Seminar on "Heavy Rainfall Forecasts by NWP Model & its Validation over SAARC Region", organized by SMRC & DHMS, Bhutan 40 Imparted hands-on Training on WRF Modeling to Met Personnel of DHMS, Bhutan Nepal 15.05.12 17.05.12 Coordinator & Resource Person Thimpu, Bhutan 18.05.12 23.05.12 Trainer/Resource Person						
Assimilation for Numerical Weather Prediction" 33 Training Content Development Meeting on Disasters. Organized by UNESCO & Management and Resources Development Initiative (MRDI) 34 Collaborative research between SMRC and IMD, IIT-Delhi & NCMRWF on WRF Data Assimilation (Synop, AWS & Radar) 35 Training Workshop on Doppler Dhaka, Ssimilation, SMRC, Dhaka 36 Seminar on "Results & Review of Field Experiments", Organized by SMRC & DHM, Nepal 37 International Conference on Indian Ocean Tropical Cyclone and Climate Change, Organized by WMO and IMD 38 2nd Meeting of the InterGovernmental Expert Group on Climate Change (IGEG.CC) 39 Seminar on "Heavy Rainfall Forecasts by NWP Model & its Validation over SAARC Region", organized by SMRC & DHMS, Bhutan 40 Imparted hands-on Training on WRF Modeling to Met Personnel of DHMS, Bhutan 41 Sthe International Programme Committee (IPC) Meeting of SAARC STORM, jointly organized by PMD and SAARC Meeting of SAARC STORM, jointly organized by PMD and SAARC Meeting of SAARC STORM Field Experiments" in Islamabad, Pakistan Secource Person Dhaka, Blutan 10.07.11 19.07.11 19.07.11 Collaborative Research Program Pradesh (Uttar Pradesh (NOIDA) 10.07.11 19.07.11 19.07.11 Collaborative Research Program Pradesh (Uttar Pradesh NOIDA) 10.07.11 19.07.11 19.07.11 19.07.11 Collaborative Research Program Pradesh (NOIDA) 10.07.11 19.07	31	Numerical Weather Prediction (NWP) Model Products in making	•	24/10/10	25/10/10	Resource Person
Meeting on Disasters. Organized by UNESCO & Management and Resources Development Initiative (MRDI)	32	Assimilation for Numerical		26/10/10	28/10/10	Resource Person
SMRC and IMD, IIT-Delhi & NCMRWF on WRF Data Assimilation (Synop, AWS & Radar) 35 Training Workshop on Doppler Weather Radar (DWR) Data Assimilation, SMRC, Dhaka 36 Seminar on "Results & Review of Field Experiments", Organized by SMRC & DHM, Nepal 37 International Conference on Indian Ocean Tropical Cyclone and Climate Change, Organized by WMO and IMD 38 2 nd Meeting of the InterGovernmental Expert Group on Climate Change (IGEG.CC) 39 Seminar on "Heavy Rainfall Forecasts by NWP Model & its Validation over SAARC Region", organized by SMRC & DHMS, Bhutan 40 Imparted hands-on Training on WRF Modeling to Met Personnel of DHMS, Bhutan 40 Imparted hands-on Training on WRF Modeling to Met Personnel of SAARC STORM, jointly organized by PMD and SAARC Met. Research Centre (SMRC) 42 Scientific Seminar on "Results & Review of SAARC STORM Field Experiments" jointly organized by Pakistan 43 Islamabad, Pakistan 44 Resource Person Research Program Research Program Research Program Pradesh (NOIDA Rathmandu, Nepal 14 Sth International Training on WRF Modeling to Met Personnel of SAARC STORM, jointly organized by PMD and SAARC Met. Research Centre (SMRC) 45 Scientific Seminar on "Results & Review of SAARC STORM Field Experiments" jointly organized by Pakistan	33	Meeting on Disasters. Organized by UNESCO & Management and Resources Development Initiative		31/05/11		Discussant
Weather Radar (DWR) Data Assimilation, SMRC, Dhaka 36 Seminar on "Results & Review of Field Experiments", Organized by SMRC & DHM, Nepal 37 International Conference on Indian Ocean Tropical Cyclone and Climate Change, Organized by WMO and IMD 38 2nd Meeting of the InterGovernmental Expert Group on Climate Change (IGEG.CC) 39 Seminar on "Heavy Rainfall Forecasts by NWP Model & its Validation over SAARC Region", organized by SMRC & DHMS, Bhutan 40 Imparted hands-on Training on WRF Modeling to Met Personnel of DHMS, Bhutan 41 Sth International Programme Committee (IPC) Meeting of SAARC STORM, jointly organized by PMD and SAARC Met. Research Centre (SMRC) 42 Scientific Seminar on "Results & Review of SAARC STORM Field Experiments" jointly organized by SARC STORM Field Experiments" jointly organized by Pakistan Seminar on "Results & Resource Person Resource Resour	34	SMRC and IMD, IIT-Delhi & NCMRWF on WRF Data	Uttar Pradesh	10.07.11	19.07.11	
Assimilation, SMRC, Dhaka Seminar on "Results & Review of Field Experiments", Organized by SMRC & DHM, Nepal Thernational Conference on Indian Ocean Tropical Cyclone and Climate Change, Organized by WMO and IMD Mey Delhi, India India New Delhi, India 14.02.12 17.02.12 Resource Person New Delhi, India 16.04.12 17.04.12 Represented SMRC Mathmandu, Nepal Represented SMRC Mathmandu, Nepal Thimpu, Nepal Thimpu, Bhutan India Thimpu, Bhutan Thimpu, Bhutan Thimpu, Bhutan India Thimpu, Bhutan Thimpu, Bhutan Thimpu, Bhutan Thimpu, Bhutan India Thimpu, Bhutan India Thimpu, Bhutan Thimpu, Bhutan India Thimpu, Bhutan Thimpu, Bhutan India Thimpu, Bhutan Thimpu, Bhutan Thimpu, Bhutan Thimpu, Bhutan India Thimpu, Bhutan Trainer/Resource Person Trainer/Resource Per	35	Training Workshop on Doppler	Dhaka,	20.11.11	03.12.11	Resource Person
Field Experiments", Organized by SMRC & DHM, Nepal 37 International Conference on Indian Ocean Tropical Cyclone and Climate Change, Organized by WMO and IMD 38 2 nd Meeting of the InterGovernmental Expert Group on Climate Change (IGEG.CC) 39 Seminar on "Heavy Rainfall Forecasts by NWP Model & its Validation over SAARC Region", organized by SMRC & DHMS, Bhutan 40 Imparted hands-on Training on WRF Modeling to Met Personnel of DHMS, Bhutan 41 5 th International Programme Committee (IPC) Meeting of SAARC STORM, jointly organized by PMD and SAARC Met. Research Centre (SMRC) 42 Scientific Seminar on "Results & Review of SAARC STORM Field Experiments" jointly organized by Pakistan New Delhi, India 14.02.12 17.02.12 Resource Person 16.04.12 17.04.12 Represented SMRC Mathmandu, Nepal 16.04.12 17.04.12 Represented SMRC Mathmandu, Nepal 17.05.12 Coordinator & Resource Person 18.05.12 23.05.12 Trainer/Resource Person 03.09.12 04.09.12 Member-Secretary IPC 42 Scientific Seminar on "Results & Review of SAARC STORM Field Experiments" jointly organized by		` ′	Bangladesh			
Ocean Tropical Cyclone and Climate Change, Organized by WMO and IMD 38 2 nd Meeting of the InterGovernmental Expert Group on Climate Change (IGEG.CC) 39 Seminar on "Heavy Rainfall Forecasts by NWP Model & its Validation over SAARC Region", organized by SMRC & DHMS, Bhutan 40 Imparted hands-on Training on WRF Modeling to Met Personnel of DHMS, Bhutan 41 5 th International Programme Committee (IPC) Meeting of SAARC STORM, jointly organized by PMD and SAARC Met. Research Centre (SMRC) 42 Scientific Seminar on "Results & Review of SAARC STORM Field Experiments" jointly organized by Pakistan India India India India It india It india It india It india It india It india It india It india It india It india It india It india It india It india	36	Field Experiments", Organized by	,	21.12.11	23.12.11	Resource Person
InterGovernmental Expert Group on Climate Change (IGEG.CC) Seminar on "Heavy Rainfall Forecasts by NWP Model & its Validation over SAARC Region", organized by SMRC & DHMS, Bhutan Imparted hands-on Training on WRF Modeling to Met Personnel of DHMS, Bhutan Imparted hands-on Training on WRF Modeling to Met Personnel of DHMS, Bhutan Islamabad, Pakistan Sth International Programme Committee (IPC) Meeting of SAARC STORM, jointly organized by PMD and SAARC Met. Research Centre (SMRC) Scientific Seminar on "Results & Review of SAARC STORM Field Experiments" jointly organized by Pakistan InterGovernmental Expert Group on Nepal	37	Ocean Tropical Cyclone and Climate Change, Organized by	,	14.02.12	17.02.12	Resource Person
Forecasts by NWP Model & its Validation over SAARC Region", organized by SMRC & DHMS, Bhutan 40 Imparted hands-on Training on WRF Modeling to Met Personnel of DHMS, Bhutan 41 5th International Programme Committee (IPC) Meeting of SAARC STORM, jointly organized by PMD and SAARC Met. Research Centre (SMRC) 42 Scientific Seminar on "Results & Review of SAARC STORM Field Experiments" jointly organized by Experiments" jointly organized by Bhutan 18.05.12 23.05.12 Trainer/Resource Person 18.05.12 23.05.12 Member-Secretary 19C 3.05.12 04.09.12 Member-Secretary 19C 3.05.12 04.09.12 Pakistan 19C 3.05.12 06.09.12 Resource Person	38	InterGovernmental Expert Group on		16.04.12	17.04.12	Represented SMRC
WRF Modeling to Met Personnel of DHMS, Bhutan 41 5th International Programme Committee (IPC) Meeting of SAARC STORM, jointly organized by PMD and SAARC Met. Research Centre (SMRC) 42 Scientific Seminar on "Results & Review of SAARC STORM Field Experiments" jointly organized by Bhutan Person O3.09.12 04.09.12 Member-Secretary IPC Pakistan O5.09.12 06.09.12 Resource Person	39	Forecasts by NWP Model & its Validation over SAARC Region", organized by SMRC & DHMS,		15.05.12	17.05.12	
Committee (IPC) Meeting of SAARC STORM, jointly organized by PMD and SAARC Met. Research Centre (SMRC) 42 Scientific Seminar on "Results & Islamabad, Review of SAARC STORM Field Experiments" jointly organized by Resource Person	40	WRF Modeling to Met Personnel	-	18.05.12	23.05.12	
Review of SAARC STORM Field Pakistan Experiments" jointly organized by	41	Committee (IPC) Meeting of SAARC STORM, jointly organized by PMD and SAARC Met.	-	03.09.12	04.09.12	Member-Secretary, IPC
<u> </u>	42	Review of SAARC STORM Field Experiments" jointly organized by	· ·	05.09.12	06.09.12	Resource Person

43	Training on Disaster Reporting Organized by Management of Resources & Development Initiative (MRDI) at Khulna, Bogra, Sylhet & Barisal	Khulna, Bogra, Sylhet & Barisal Div. HQs	03.11.12 09.11.12 19.11.12 24.11.12	One day each	Facilatator/ Resource Person
44	Imparted hands-on training to Meteorological Personnel of the Department of Hydrology & Meteorology (DHM, Nepal) on WRF Modeling and Data Assimilation	Kathmandu, Nepal	03.12.12	07.12.12	Trainer/ Resource Person
45	Imparted hands-on training to Meteorological Personnel of the Maldives Meteorological Services (MMS, Male, Maldives) on WRF Modeling and Data Assimilation	Hulhule, Maldives	05.04.13	12.04.13	Trainer/ Resource Person
46	Imparted hands-on training to Meteorological Personnel of the Pakistan Meteorological Department (PMD, Islamabad, Pakistan) on WRF Modeling and Data Assimilation	Islamabad, Pakistan	14.04.13	21.04.13	Trainer/ Resource Person
47	Imparted Hands-on training to Meteorological Personnel of the Department of Meteorology on WRF Modeling and Data Assimilation during 01-14 February 2015.	Colombo, Sri Lanka	01.02-15	14.02.15	Trainer/ Resource Person

15. Computer Related Trainings:

- I) Training Course on Satellite Imageries Interpretation and Application to Weather Forecasting (three weeks), Conducted by NASA (US) Scientist at SPARRSO, Dhaka, Bangladesh in 1985. Two Weeks Training Course on Satellite Oceanography, Conducted by NOAA/NASA (US) Scientists at SPARRSO, Dhaka, Bangladesh in 1988.
- i) "A+" Grade obtained in BASIC and Fortran Programming Course (three months, PC-based). Institute of Binary Information Systems, Dhaka, Bangladesh in 1990.
- ii) "A+" Grade obtained in C++ and FoxPro Programming Course (PC-based). St. Placid Computers, Dhaka, Bangladesh in 1990.
- iii) Introduction to VAX/VMS Utilities, Commands & System Management for MicroVAX-II and MicroVAX-3300 Miniframe Computer Systems, Dhaka, Bangladesh in 1990.
- iv) Training Course Covering Full Operation & Management of Autofax-3005 (NOAA/ Meteor Satellite Receiving System), Dhaka, Bangladesh in 1991.
- v) Training Workshop on SHARE software (Weather data analysis) VAX/VMS OS & Utilities for MicroVAX-II System, Colombo, Srilanka in 1992. vi) Training on HP-Unix OS and System Management for HP-UX (RISC-6000 Processor) Workstations, Dhaka, Bangladesh in 1998-99. vii) Training on Sun Unix OS and System Management for Sun Microsystem Server (RISC-6000 Processor), Dhaka, Bangladesh in 2002. viii) Training on GMS and NOAA Receiving Systems for HP-UX (RISC-6000 Processor) Workstations, Dhaka, Bangladesh in 1998-99.
- ix) Training on BTV (Development of Weather Products) and Radar Systems, Dhaka, Bangladesh in 1998-99.
- x) A two-week course in Basics of Unix/Linux Operating System and System Administration at BMD and Flora Ltd, Dhaka, Bangladesh.
- xi) Storm Surge Formulation (Modeling) at Indian Institute of technology (IIT), Kharagpur, India in 2002.
- xii) Combined Modeling and Data Management (Unix OS), Oostende, Belgium in 2005.
- xiii) Training Workshop on Numerical Weather Prediction (NWP) Modeling conducted by Dr. Vijay Tallapragada, Researcher & Scientist from Florida State University, Tallahassi, USA at Bangladesh Computer Council (BCC), Dhaka: 2001 (04 days).
- xiv) Training Workshop on Numerical Weather Prediction (NWP) Modeling conducted by Dr. Vijay Tallapragada, Scientist from NOAA/NCEP, USA at Bangladesh Computer Council, Dhaka: 03-06 June 2006.

16. A brief list of Research/Publications:

- (1) Debsarma S.K., 1988: Storm Track Prediction by Quadratic Regression Analysis Method. Presented at the Technical Seminar on the occasion of the World Meteorological Day, BMD, Dhaka: 23 March 1988.
- (2) Debsarma, S.K. (as S.D. Sarma), 1991: Cyclones: Scientific Background, "Cyclone'91, An Environmental and Perceptional Study. The Book was published by Bangladesh Centre for Advanced Studies (BCAS), pp. 17-27.

- (3) Chowdhury M.H.K and Debsarma S.K., 1992: Climate Change in Bangladesh- A Statistical Review. Presented at the IOC UNEP Workshop on the Sea Level Rise due to Global Warming in the South Asian Seas Regions, organized by NOAMI, Bangladesh, 16-19 November, 1992. Report on IOC-UNEP Workshop on Impacts of Sea Level Rise due to Global Warming, Bangladesh, 16-19 November, 1992. pp. 15.
- (4) Debsarma S.K., 1992: Environmental and Ecological Consequences of Natural Disasters in Bangladesh. Presented at the Disaster Management Training of Trainers, organized by Bangladesh Development Partnership Centre, at CARITAS Premises, 1992.
- (5) Debsarma S.K., 1992: A User Friendly Meteorological Routine Software Package (PC-based) named "METEOR" (Storm Surge Model, Storm Track, 1992 etc.). Being used at Bangladesh Meteorological Department (BMD).
- (6) Debsarma, S.K., 1992: Some Generalized Features and Impacts of the Southwest Monsoon over the Sub-Continent. Presented at the Seminar on "Asian Monsoon and its Fluctuations" organized by Bangladesh Academy of Sciences (BAS) and the Centre for Scientific and Technological Information (CESTI), alliance Francaise de Dhaka, 13 July1992.
- (7) Debsarma, S.K., 1992: Climate Change in Bangladesh- A Statistical Review. Report on IOCUNEP Workshop on Impacts of Sea Level Rise due to Global Warming, 16-19 November, 1992, Bangladesh, pp. 15.
- (8) Debsarma, S.K., 1994: Storm Track Prediction (STP) Model (presented at the BeWARES Workshop at the University of Victoria, Canada (1994) and at the International Symposium on Natural Disasters and their Mitigation: Bangladesh Perspective, Dhaka, Bangladesh: Date: 27-29 March, 1995). [This paper was awarded the 13th SAARC Award for Young Scientists (1995)].
- (9) Debsarma, S.K., 1995: Steering and Persistence (STEEPER) Model for the Storm Track Prediction (presented at the workshop on "Global Change and Tropical Cyclones" START, SASCOM, Bangladesh Academy of Sciences, Dhaka, Date: 18-20 December, 1995).
- (10) Debsarma, S.K., 1995: Steering and Persistence (STEEPER) Model for the Storm Track Prediction. In Report: Ministry of Disaster Management & Relief, Disaster Management Bureau, Aug. 1998, pp. 55-60.
- (11) Debsarma, S.K., 1998: Meteorological Aspect of Drought in Bangladesh. International Decade for Natural Disaster Reduction (IDNDR) Day, Dhaka, Bangladesh: 08 Oct. 1997. In Report: Ministry of Disaster Management & Relief, Disaster Management Bureau, Aug. 1998, pp. 141152.

- (12) Debsarma, S.K., 1998: Meteorological Terminology and their Bengali Version. In Report: Ministry of Disaster Management & Relief, Disaster Management Bureau, Aug. 1998, pp. 69-75.
- (13) Debsarma, S.K., 2001: Cyclone and its Warning Systems in Bangladesh. Presented at the Seminar on National Disaster Day, organized by Disaster Management Bureau (DMB), Ministry of Food & Disaster Management, Dhaka, Bangladesh: 29 March 2001.
- (14) Debsarma, S.K., 2001: Cyclone Warning System in Bangladesh. Presented at the "Briefing Session on Disaster Management for High Officials", organized by Disaster Management Bureau (DMB), Ministry of Food & Disaster Management, Dhaka, Bangladesh: 25 February 2001.
- (15) Debsarma, S.K., 2002: Intra-Annual and Inter-Annual Variations of Rainfall over Different Regions of Bangladesh. Proceedings of SAARC Seminar on Climate Variability in the South Asian Region and its Impacts, 10-12 December 2002, SAARC Meteorological Research Centre (SMRC), 2003, pp.137-145.
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- (17) Debsarma, S.K., 2003: Cyclone Forecasting and its Constraints for the Bay of Bengal. Presented at the "Seminar on Weather and its Constraints for Weather Forecasting in the Respective Country of the SAARC Region", organized by SAARC Meteorological Research Centre (SMRC), Dhaka: 11-12 July 1999. Published in the *Journal of BAKP "The Atmosphere"*, **Vol No. 2,** June 2003, pp. 40-52.
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- (19) Debsarma, S.K., 2003: Cyclone Forecasting and its Constraints for the Bay of Bengal. Published in the Journal of BAKP "The Atmosphere", Vol No. 2, June 2003.
- (20) Debsarma, S.K., 2003: Cold Wave in Bangladesh. Submitted in fulfillment of the assignment on the completion of one year probationary period (13 Nov. 2002 12 Nov. 2003) due to promotion as Assistant Director.
- (21) Debsarma, S.K., 2004: Post mortem (analysis) of the nor'wester that hit Dhaka on 14 April 2003. The paper is presented at the Seminar on "Local Severe Storm Over South Asian Region", organized by SAARC Meteorological Research Centre (SMRC), Dhaka, Bangladesh: 28-30 November 2004.

- (22) Debsarma, S.K., 2004: Visualization of May 1997 Storm Surge by Using IIT Model. *Proceedings of SAARC Seminar on Tropical Cyclones & Storm Surges in the South Asian Region.*, 20-22 December 2003, SAARC Meteorological Research Centre (SMRC). Dhaka, Bangladesh. Pp. 23-48.
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- (24) Debsarma, S.K, 2006: Developed PC-Linux based Tsunami Propagation Model at BMD to visualize Tsunami Travel Time in February 2006.
- (25) Debsarma, S.K., 2007: Numerical Simulations of Storm Surges in the Bay of Bengal, *Proceedings of the First JCOMM Scientific and Technical Symposium on Storm Surges*, Seoul, Republic of Korea, 02-06 October, 2007.
- (26) Debsarma, S.K., 2008: Simulation of 3D storm surge due to cyclone Sidr of 15-16 November 2007, Bose Conference on Contemporary Physics 2008, Organized by the University of Dhaka and ICTP, Trieste, Italy, Dhaka, Bangladesh: 19-21 March 2008.
- (27) S.M.Quamrul Hassan, **Sujit K. Debsarma**, S.M. Mahmudul Huque, 2008: Impact of Temperature Rise on Socio-Economic Development in Bangladesh, Proceedings of SAARC Seminar on Application of Weather and Climate Forecasts in the Socio-economic Development and Disaster Mitigation, Dhaka, Bangladesh: 06-07 Aug., 2007. pp.1-10.
- (28) M.A. Manan, Samarendra Karmakar, **Sujit K. Debsarma**, 2008: Climate Feature of Thunderstorm Days Frequency and their Impact on the Society in Bangladesh, Proceedings of SAARC Seminar on Application of Weather and Climate Forecasts in the Socio-economic Development and Disaster Mitigation, Dhaka, Bangladesh: 06-07 Aug., 2007. pp.11-26.
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- (31) Debsarma, S.K., 2009: Influence of Easterlies and Westerlies on Rainfall Activities in and around Bangladesh, SAARC Seminar on "Interaction between Easterly and Westerly Troughs and its Impact on Weather over SAARC Region", Islamabad, Pakistan: 08-09 June 2009.

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- (33) Debsarma, S.K., 2009: Simulation of Storm Surge due to Cyclone "AILA-2009", Seminar on Atmospheric-Oceanic Phenomena and Climate Change: Perspective Bangladesh, Department of Physics, University of Dhaka, 03 November 2009.
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- (36) Najifa Ahmed, Prof. Sultana Shafee and **Sujit Kumar Debsarma**, 2010: Investigation Into The Relationship Between North Atlantic Oscillation Index (NAO Index) and Monsoon Rainfall During The Period 1971-2008 In Bangladesh, International Conference on Recent Advances in Physics RAP-2010, Organized by Department of Physics, University of Dhaka, Bangladesh, March 27-29, 2010, http://www.univdhaka.edu/rap2010/pdf_file/program-final.pdf
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- (40) Nikhil Chandra Sarkar, Anowarul Islam and **Sujit K. Debsarma**, 2011: Coastal Geometry and Storm Surge Model for the Bay of Bengal, *Proceedings of the International Conference on Environmental Technology and ConstructionEngineering for Sustainable Development, ICETCESD-2011*, Edited by M. Aktarul Islam Chowdhury, Mushtaq Ahmed, G. M. Jahid Hasan, Organized by Department of Civil and Environmental Engineering, Shahjalal University of Science and Technology, Sylhet, Bangladesh, pp. 980-989.
- (41) Debsarma, S.K., 2011: Study of the Thunderstorm of 03 May 2009 by using WRF-ARW Model, *Proceedings of the Seminar on Space Technology Application for Monitoring Earth Resources, Disasters*

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- (42) M.A. Rouf, M.K. Uddin, **S.K. Debsarma** and M. Mizanur Rahman, 2011: Climate of Bangladesh: An Analysis of Northwestern and Southwestern Part using AOGCM; *The Agriculturist* **9(1&2)**:143154(2011).
- (43) Md. Azizur Rahman, **Sujit Kumar Debsarma** (Co-Supervisor), M. Zillur Rahman and Md. Ashabul Hoque, 2011: Effects of Air Bubbles on Storm Surge, PhD Thesis of Dr. Md. Azizur Rahman, Deptt. of Math., University of Rajshahi, Bangladesh, June 2011.
- (44) Someshwar Das, Surya K. Dutta, **Sujit K. Debsarma**, Nazlee Ferdousi and Farhana Faqrun Nessa, 2012: Assimilation of STORM 2009 Field Observations in WRF Model and Their Impact on the Simulations of Thunderstorms. Published as the *SAARC Meteorological Research Centre (SMRC)* **Report No. 43,** 2012.
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- (47) Md. Abdur Rouf, **Sujit Kumar Debsarma** (Co-Supervisor), Md. Khabir Uddin, 2013: Climatic Effects on the Livelihood of Small Scale Farmers at Naogaon & Patuakhali Regions and Policy Recommendations for their Sustainable Development, PhD Thesis of Dr. Md. Abdur Rouf, Deptt. of Environmental Sciences, Jahangirnagar University, Bangladesh, January 2013.
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- (49) M. N. Ahasan & S. K. Debsarma, 2014: Impact of data assimilation in simulation of thunderstorm (squall line) event over Bangladesh using WRF model, during SAARC–STORM Pilot Field Experiment 2011, Journal of the International Society for the Prevention and Mitigation of Natural Hazards, ISSN 0921-030X, Nat Hazards, DOI 10.1007/s11069-014-1369-z, online by Springer.
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