

## Curriculum Vitae

**Dr. Saon Banerjee,**

Agrometeorologist, AICRP on Agrometeorology

Directorate of Research, BCKV,

Kalyani, Nadia: 741235. W.B., India.

Phone: +9133-25808797

E-Mail: [sbaner2000@yahoo.com](mailto:sbaner2000@yahoo.com)

***Personal Data:***

- Date of Birth: 03.12.1971
- Nationality: Indian
- Male/Female: Male
- Address: 7, Deshbandhu Co-op 2(C), Durgapur-713212.

***Educational qualification:***

Examination Passed	University/Board	Year of passing	Percentage of marks/Grade points
B.Sc. (Ag.) Hons.	VISVA-BHARATI	1993	65.5% (1 <sup>st</sup> Class)
M.Sc. (Ag. Physics)	IARI, New Delhi	1996	OGPA: 3.91/4.00
Ph.D. (Ag. Physics)	IARI, New Delhi	2000	OGPA: 3.75/4.00

***Research Experience:*** Sixteen years on micro-meteorology, crop weather modeling, climate change impact and crop weather relationship.

***Teaching experience:*** Sixteen years in M.Sc. and Ph. D. level and guided four Ph. D. students.

***Service record:***

Position held	Organisation	Period
Lecturer	B.C.K.V.	24.04.2000 to 23.04.2004
Lecturer in Senior Scale	--do--	24.04.2000 to 13.09.2006
Reader	--do--	14.09.2006 to 13.09.2009
Associate Professor	--do--	14.09.2009 to 13.09.2012
Professor	--do--	14.09.2012 to till date

***Awards received:***

- Awarded GOLD MEDAL for academic performance in M.Sc. Degree Programme at IARI.
- Received “Metos Award” for best presentation on Agromet Advisory Services in 2004.
- Best Paper Award in the National Conference on “Impacts of Climate Change with Particular Reference to Agriculture” held at TNAU, Coimbatore, India in 2007.
- Best Poster award in the International Symposium on Agrometeorology and Food Security held at CRIDA, Hyderabad in 2008.
- Best Centre Award (for information dissemination) of AICRP on Agrometeorology during 2008.
- Best paper presentation award in XXVIII INCA International Congress held at Gandhinagar in 2008.
- INSA Bilateral Exchange Programme Award for visiting University of Edinburgh in 2012.
- ELLA (Evidences and Learning from Latin America) Learning into Practice Award (in the form of a project amounting US\$ 5000.00) in 2013.
- CNPq-TWAS Post-Doc award in 2014 (not attended due to personal reason).
- Foreign Fellow, Bangladesh Science Foundation in 2015.

***Project handled and ongoing projects:***

Sl. No.	Name of the Project	Funding agency	Position held
1	Agromet Advisory Service	Ministry of Earth Science	Nodal Officer
2	Energy Water Balance and crop growth monitoring	ISRO	Principal Investigator
3	Impact, adaptability and vulnerability of Climate Change on Indian Agriculture	ICAR	Principal Investigator
4	National Initiative on Climate Resilient Agriculture	ICAR	Principal Investigator
5	Strengthening climate change related adaptive capacity for farming community with special reference to arid and semi-arid regions of SE Asia	Practical Action, UK	Principal Investigator
6	FASAL	Ministry of Earth Science	Co-PI
7	Optimisation of Meteorological resources for sustainable production of pigeon-pea based cropping system under upland condition	Govt. of West Bengal, India	Co-PI
8	Economic impact of Agromet Advisory Service	Ministry of Earth Science	Co-PI
9	Energy-mass exchange in vegetation system	ISRO	Co-PI
10	Revival of Village Pond	DST	Co_PI

**Professional training:**

Title	Duration	Institution	Year
Crop modelling	4 weeks	CASAM, MPKV, Pune	2002
Global warming	3 weeks	Jadavpur University	2003
Land evaluation for watershed towards microlevel plannubg using RS and GIS	3 weeks	NBSSLUP, Regional Centre, Kolkata	2006
Mechanisms for protection of Intellectual Property in North-East and West Bengal	5 days	Assam Agricultural University (organized by NAARM)	2006
Agroclimatic analysis, Crop simulation modeling and Web-page management	7 days	CRIDA	2009
Analysis of crop-weather relationship	5 days	CRIDA	2010
Decision Support System for Agro-technology Transfer	5 days	CRIDA	2012

**Country visited for academic and research purposes:**

Name of country	Year	Purpose
Bangladesh	2004	To attend Int. Seminar on Bengal Basin
Cambodia	2009	To attend the Workshop organized by APN on Global Changes
Australia	2010	--do--
Thailand	2011	--do--
UK	2012	Visiting Scientist in University of Edinburgh through INSA Bilateral Exchange Programme
Thailand, Malaysia, Sri Lanka	2013	Project work of “Strengthening climate change related adaptive capacity ..... SE Asia”
Vietnam	2014	To attend Flux Monitoring Training organized by Asia Flux
Spain	2016	To chair one session in the International Conference on Science, Ecology and Technology (14-16 Oct., 2016 at Barcelona)
Indonesia	2018	To deliver the invited lecture on Climate Resilient Agriculture at University of Padjadjaran

**Other important activities:**

- Respondent (Agril. Section) in IPCC (AR 4) dissemination Workshop for South East Asia in 2007.
- Organized Xth Biennial Workshop of AICRP on Agrometeorology in 2008 (as Organizing Secretary).
- Organized Regional level 10-days Training Programme on “Basic aspects of Agrometeorology and weather based Agromet Advisory Service System” in 2013 (as Training Director).
- Participation in the IPCC (AR 5) dissemination Workshop for South East Asia in 2015.
- Reviewer of papers for National and International Journal.
- External Examiners and Thesis evaluator. Guest lecturer for different training program.

## *List of Full Research Papers*

*(18 papers published from outside India)*

---

---

1. Chandrasekharan, H., N. Gupta, B.R. Yadav and **Banerjee, S.** 1997. Geophysical Techniques for Characterisation of Soil Water Pollution. Proc. Int. Sym. on Emerging Trends in Hydrology, Roorkee, India. Vol.1: 235-241.
2. **Banerjee, S.**, D.K. Das, B.R. Yadav, N. Gupta and Chandrasekharan, H. 1998. Estimation of Soil Salinity at IARI Farm by Inductive Electromagnetic Technique. *J. Indian Soc. Soil Sci.*, 46(1): 110-115.
3. **Banerjee, S.**, Nathan, K.K. and Chandrasekharan, H. 2000. Some Observation on Rainfall—Water Table Relationship in a Micro Watershed near Faridabad. *Annals of Arid Zone*, 39(1): 15-20.
4. **Banerjee, S.**, Trivedy, S. M. and Chandrasekharan, H. 2002. Geo-electrical investigations for the assessment of groundwater salinity in an agricultural farm in Haryana. *Hydrol. J.*, **25** (4): 41-48.
5. Shahi, V. K., **Banerjee, S.** and Nanda, M. K. 2002. Effect of mulching on soil temperature and its impact on seedling emergence of groundnut. *Jour. Agric. Physics*, **2** (1): 9-12.
6. Sharangi, A. B., Nanda, M. K. and **Banerjee, S.** 2002. Effect of temperature and humidity on success of stone grafting of mango varieties in the new alluvial zone of West Bengal. *The Hort. J.*, **15** (3): 23-29.
7. Vinoy, A. T., **Banerjee, S.** and A. Khara. 2003. Study of soil temperature in relation with some meteorological parameters in bare field and agroforestry system. *Asian J. Microbiol. Biotech. Env. Sc.*, **5** (4): 557-559.
8. Khan, M. R. and **Banerjee, S.** 2003. Dynamics of Root-knot Nematode, *Meloidogyne incognita* under a sequence of different crop in West Bengal, *Indian J. Nematol.*, **33**(1): 73-74.
9. **Banerjee, S.** 2006. Microenvironment of yam-bean grown in alley under agroforestry. *J. Agrometeorol.*, **8** (2): 289 – 292.
10. **Banerjee, S.** and L. Das. 2006. Determination of length of growing period in parts of alluvial zone of West Bengal. *RAU J. Res.*, 16 (1-2): 8-11.
11. **Banerjee, S.** and H. Chandrasekharan. 2006. Impact of river on groundwater in the Yamuna river bank area, Delhi, India. *J. Interacad.*, **10** (1): 48 – 53.
12. Mandal, S.K., Sattar Abdus and **Banerjee, S.** 2006. Impact of meteorological parameters on population build up of Red Spider Mite in okra, *Abelmoschus esculentus* L. under North Bihar condition, *Jour. Agric. Physics*, **6** (1): 35-38.

13. Huda, S., Spooner-Hart, R., Chriss, D., Bhattacharya, I., **Banerjee, S.**, Hansen, J., Boote, K. and Sivakumar, M. 2006. Climate and crop disease risk management: An International initiative in the Asia-Pacific region. Report submitted to Asia-Pacific Network for Global Change Research. No. ARCP 2006 -12 NMY.
14. **Banerjee, S.**, Majumder, D. and Nanda, M. K. 2007. Modelling rice bean growth influenced by micrometeorological parameters. *Env. and Ecol.* **25** (3): 666 – 669.
15. Mallick, K. Bhattacharya, B. K., Chaurasia, S., Nigam, R., **Banerjee, S.** Gadgil, A. S. and Parihar, J.S. 2007. Evapotranspiration using MODIS data and limited ground observations over selected agroecosystems in India. *International J. Remote Sensing*, **28** (10): 2091 - 2110.
16. Nanda, M. K. and **Banerjee, S.** 2007. Estimation of Evapotranspiration above Rice Crop Stand Using Flux Profile Method - A Case Study, *Asia Flux Newsletter*, **23**: 10 – 13.
17. **Banerjee, S.** 2008. Possible impact of climate change on rice production in the Gangetic West Bengal, India. Global Issues Paddock Action. Proceedings of the 14th Australian Agronomy Conference (Edited by MJ Unkovich). September 2008, Adelaide South Australia.
18. Bhattacharya, B. K., Mallick, K., Rao, V. U. M., Raji Reddy, **Banerjee, S.**, Venkatesh, H. and Patel, N. K. 2008. Regional scale evapotranspiration from MODIS AQUA and NOAA AVHRR: validation over India agroecosystems. *J. Agrometeorol.*, **10** (2): 372 – 383.
19. Mukherjee, A. **Banerjee, S.** and Sarkar, S. 2008. Productivity and radiation use efficiency of tea grown under different shade trees in the plain land of West Bengal. *J. Agrometeorol.*, **10** (2): 146 - 150.
20. Mukherjee, A. **Banerjee, S.**, Nanda, M. K. and Sarkar, S. 2008. Microclimate study under agroforestry system and its impact on performance of tea. *J. Agrometeorol.*, **10** (SI- I): 99 - 105.
21. Mukherjee, A. **Banerjee, S.**, Khan, S. A. and Saha, G. 2008. Effect of date of planting on performance and water use pattern of potato in New Alluvial Zone of West Bengal. *J. Agrometeorol.* **10** (SI-II): 323 - 327.
22. Mukherjee, A. and **Banerjee, S.** 2008. Rainfall and temperature trend analysis in the red and lateritic zone of West Bengal. *J. Agrometeorol.*, **11** (2): 196 - 200.
23. Dey, S., **Banerjee, S.**, Saha, A. and M. K. Nanda. 2009. Rain induced flood prone area identification in Nadia District, West Bengal through GIS. *Env. and Ecol.*, **27** (4): 1537 – 1540.
24. Mallick, K. Bhattacharya, B. K., Rao, U., Reddy, R., **Banerjee, S.** Venkatesh, H., Pandey, V., Mukherjee, J. and Patel, N. 2009. Latent heat flux estimation in clear sky days over Indian agroecosystems using non-time satellite data, *Ag. and Forest Meteorol.* **149** (10): 1565-1788.

25. Saikia, B., **Banerjee, S.** and Sarkar, S. 2009. Crop weather relationship in Brassica Campestris var. yellow sarson grown in Gangetic West Bengal. *J. Agrometeorol.*, 11 (SI-1): 67 – 69.
26. Sarmah, K., **Banerjee, S.** and Huda, A. K. S. 2009. Simulating the impact of climate change on performance of rapeseed and mustard through crop simulation model. *Int. J. Agric. Environ. and Biotech.* 2 (4): 318 – 322.
27. Mukherjee, A. and **Banerjee, S.** 2009. Rainfall and temperature trend analysis in the red and lateritic zone of West Bengal. *J. Agromet.*, 11 (2): 196 - 200.
28. **Banerjee, S.**, Mukherjee, A., Mukhopadhaya, A., Saikia, B., Bandyopadhaya, S. and Chatterjee, S. 2010. Agro-climatic characterisation of two selected stations in the southern West Bengal, India. *J. Science Foundation*, 8 (1 and 2): 49-54. DOI: <http://dx.doi.org/10.3329/jsf.v8i1-2.14619>.
29. **Banerjee, S.**, Bhattacharya, I., Khan, S. A. and Huda, A.K.S. 2010. Weather sensitivity of downy mildew and Alternaria blight of mustard in the Gangetic West Bengal, India. *J. Science Foundation*, 8 (1 and 2): 77-81. DOI: <http://dx.doi.org/10.3329/jsf.v8i1-2.14629>.
30. Chatterjee, S. K. and **Banerjee, S.** 2010. Changing Irrigation Requirement of Potato in the New Alluvial Zone of West Bengal. *Vikas Vani Journal.*, IV (2): 72-75.
31. Halder, C., **Banerjee, S.**, Dutta, P. and Mukherjee, A. 2010. Variation of growing degree days influencing growth and development of rice in the New Alluvial Zone of West Bengal. *Env. and Ecol.*, 28 (1B): 690 – 693.
32. Saha, G., Lepcha, L., **Banerjee, S.**, Deka, N., Nanda, M.K., Maity, G.C. and Khan, S.A. 2010. Studies on assessment of benefits of weather-based agro-advisories in jute-boro rice cropping system in West Bengal. *Agrometeorological Services for Farmer* (Eds. Vyas Pandey), Anand Agricultural University, Anand, pp. 178-183.
33. Saikia, B., Sarmah, K. and **Banerjee, S.** 2010. Impact of radiation on thermal environment of *Brassica campestris*, var. yellow sarson. *Agrometeorological Services for Farmer* (Eds. Vyas Pandey), Anand Agricultural University, Anand, pp. 51-58.
34. Chakraborty, D., Mazumder, S. P., Garg, R. N., **Banerjee, S.**, Santra, P., Singh, R. and Tomar, P. K. 2011. Pedotransfer functions for predicting points on the moisture retention curve of Indian soils. *Indian J. Agril. Sci.*, 81 (11): 1030-1036.
35. Dey, S., **Banerjee, S.** and Saha, A. 2011. Water deficit patterns for cultivation of rainfed rice in the Lower Gangetic Plain of West Bengal. *Journal of Agricultural Physics*, 11: 79-83.
36. Das, L., **Banerjee, S.**, Saha, G., Saha, A. and Rai, S. K. 2012. 20<sup>th</sup> Century rainfall change over Gangetic West Bengal and its neighbourhood. *Journal of Agrometeorology*, 14: 58-66.

37. Mukherjee, A. L., Mukherjee, A., **Banerjee, S.** and Chaudhuri, S. 2012. Rainfall probability analysis of Purulia District, West Bengal. *Journal of Agrometeorology*, **14**: 157-161.
38. Basu, B., Mondal, B. C., Mukherjee, A., **Banerjee, S.** and Rao, V. U. M. 2012. Weather-based agro-advisories towards enhancing resilience of agriculture at Bongheri Village, West Bengal. *Journal of Agrometeorology*, **14**: 252-255.
39. Samanta, S., **Banerjee, S.** and Mukherjee, A. 2012. Rainfall variability study over Kalyani Region. *Journal of Agrometeorology*, **14**: 401-406.
40. Nanda, M. K., Bera, N., Bhattacharya, B. K., Parihar, J. S., **Banerjee, S.**, Pal, S. and Khan, D. K. 2012. Energy Balance Closure Study over rice field. *Journal of Agrometeorology*, **14**: 543-548.
41. Chatterjee, S. K., **Banerjee, S.** And Bose M. 2012. Climate change impact on crop water requirement in Ganga River Basin, West Bengal, India. *IPCBE, IACSIT Press*, Singapore. **46**: 17-20.
42. Chatterjee, S. K., **Banerjee, S.**, Bose M. and Konar, A. 2012. Study of irrigation requirement and crop ET status over potato field in selected locations in Southern West Bengal. *River Behaviour & Control*, **32**: 67-73.
43. Das, S., Biswas, S., Mukherjee, A., **Banerjee, S.** 2012. Evaluating performance of rice under elevated CO<sub>2</sub> and temperature condition through DSSAT model. *Journal of Agrometeorology*, **14**: 325-330.
44. Mukherjee, A., **Banerjee, S.**, Chatterjee, S., Banerjee, S., Chakravarty, A.K. and Sarkar, S. 2012. Yield and water use pattern of wheat grown under different date of sowing and varying irrigation scheduling. *Journal of Agrometeorology*, **14**: 285-291.
45. Luck, J., Asaduzzaman, M., **Banerjee, S.**, Bhattacharya, I., Coughlan, K, Chakraborty, A., Debnath, G. C., De Boer, R. F., Dutta, S., Griffiths, W., Hossain, D., Huda, S., Jagannathan, R., Khan, S., O'Leary, G., Miah, G., Saha, A., Spooner-Hart, R. 2012. The effects of climate change on potato production and Potato Late Blight in the Asia-Pacific Region. *APN Science Bulletin*, March 2012 (2): 28 – 33.
46. **Banerjee, S.**, Chatterjee, S., Mukherjee, A., Samanta, S. and Bose, M. 2013. Variation of crop evapotranspiration from the potato field at two selected locations of West Bengal, India. *J. Agrometeorol.*, 15 (II): 64-66.
47. Mukherjee, A., **Banerjee, S.**, Samanta, S. Chakraborty, A. J. and Deka, N. 2013. Variation of absorbed PAR and yield of different *Kharif* rice cultivars influenced by date of transplanting. *Journal of Agrometeorology*, **15**: 126-128.
48. Banerjee, H., **Banerjee, S.** and Puste, A. M. 2013. Contingency crop planning for varied weather conditions to improve livelihood of dry-land areas in India. Proceedings of the International Conference on Climate Change Impact and Adaptation, 14-16 Nov., 2013, DUET, Gazipur, Bangladesh.

49. Barma, P., Jha, S. and **Banerjee, S.** 2013. Prediction of population development of melon fruit-fly (*Bactrocera cucurbitae* Coq.) on pointed gourd (*Trichosanthes dioica* Roxb.). *African J. Agril. Research*, 8 (38): 4740-4747.
50. Bera, N., **Banerjee, S.**, Sharma, K., Nanda, M. K., Bhattacharya, B. and Khan, D. K. 2013. Determining potential yield and effect of change of transplanting date on yield of Kharif rice through crop growth simulation model. *Journal of Agricultural Physics*, **13**: 80-85.
51. Das, S., Biswas, S., **Banerjee, S.** and Mukherjee, A. 2013. Projected boro rice yields for different locations of West Bengal using DSSAT model. *J. Agrometeorol.*, 15 (SI-II): 244-245.
52. **Banerjee, S.**, Mukherjee, A., Das, S. and Saikia, B. 2014. Adaptation strategies to combat climate change effect on rice and mustard in Eastern India. *Mitigation and Adaptation Strategies for Global Change*, 21: 249-261. DOI: 10.1007/s11027-014-9595-y.
53. Saikia, B. and **Banerjee, S.** 2014. Radiation balance and radiation pattern study over *Brassica campestris* var yellow sarson in Gangetic West Bengal. *J. Agrometeorol.*, 16(2): 178-182.
54. Harwadikar, N.S., Samanta, S., Kundu, M., Mukherjee, A., **Banerjee, S.** and Sarkar, S. 2014. Evapotranspiration and yield pattern of three potato cultivars influenced by date of planting. *J of Agrometeorol* 16 (special issue 1): 286-289.
55. Sattar, A., Khan, S.A. and **Banerjee, S.** 2015. Analysis of assured rainfall for crop planning under rainfed condition in drought prone tract of Bihar. *Journal of Agricultural Physics*, 15 (1): 16-22.
56. Biswas, R., Bhattacharyya, B. and **Banerjee, S.** 2015. Predicting wet season rice yield of Gangetic West Bengal through weather based regression model using dummy variable. *The Ecoscan*, 9 (1 and 2): 37-41.
57. **Banerjee, S.** and Dutta, P. 2015. Albedo pattern over rice field in lower Gangetic Plains of West Bengal during Kharif and Boro seasons. *Indian J. of Applied Research*, 5 (9): 553-554.
58. **Banerjee, S.**, Mukherjee, A., Sattar, A. and Biswas, B. 2015. Change detection of annual temperature and rainfall in Kalimpong station under Hill Zone of West Bengal. *Indian Journal of Hill Farming*, 28 (2): 81-84.
59. Biswas, R., **Banerjee, S.** and Bhattacharyya B. 2015. Use of statistical and crop growth simulation models for predicting rice yield in Lower Gangetic Plain of India. *Advances in Bioresearch*, 6 (4): 137-141.
60. **Banerjee, S.**, Chatterjee, S., Sarkar, S. and Jena, S. 2016. Projecting future crop evapotranspiration and irrigation requirement of potato in Lower Gangetic Plains of



India using the CROPWAT 8.0 model. *Potato Research*, 59 (4): 313-327. DOI: 10.1007/s11540-016-9327-7.

61. Pratiher, S., Mukhopadhyay, S., Barman, R., Pratiher Souvik, Dey, S., **Banerjee, S.** and Panigrahi, P. K. 2016. Recurrence Quantification and ARIMA based forecasting of Rainfall-Temperature Dynamics. *IEEE*: 490-495.
62. Thakur, S., **Banerjee, S.** and Mukherjee, A. 2017. Variation of latent heat flux and canopy temperature over potato crop governed by soil moisture. *Int.J.Curr.Microbiol.App.Sci*, 6 (10): 130-137.
63. Mukherjee, A., Huda, A.K.S., Thentu, T.L. and **Banerjee, S.** 2017. Increasing wheat productivity under variable and changing climatic condition in West Bengal, India. *International Journal of Bio-resource and Stress Management* 8(3): 473-476. DOI.ORG/10.23910/IJBSM/2017.8.3.1781.
64. Giri, R., Biswas, B. and **Banerjee, S.** 2017. Changing rainfall pattern and flood risk: Impact on agriculture in the New Alluvial Zone of West Bengal, India. *Eco. Env. and Cons.*, 23 (3): 363-365.
65. Barma, P., Jha, S., **Banerjee, S.** and Karmakar, K. 2017. Bio-Ecology of two spotted Mite infesting pointed gourd in West Bengal. *Trends in Bioresources*, 10 (18): 3210-3216.
66. Biswas, R., Bhattacharyya, B. and **Banerjee, S.** 2017. Predicting rice yield from weather variables through detrended production index. *Contemporary Research in India*, 7 (3): 197-201.
67. Chakraborty, P. K., Samanta, S., **Banerjee, S.** and Mukherjee, A. 2017. Thermal use efficiency for determining optimum date of transplanting and water regime in Boro Rice (Short Commn). *J of Agrometeorol*, 19 (2): 149-152.
68. Dey, S., Pratihar, S., Mukherjee, C.K., **Banerjee, S.** and Chakraborty, A. 2018. Augmented logarithmic Gaussian Process Regression methodology for Chlorophyll Prediction. Conference Proc of SPIE ([www.spiedigitallibrary.org](http://www.spiedigitallibrary.org)).
69. Chakraborty, P. K., **Banerjee, S.**, Mukherjee, A., Nath, R. and Samanta, S. 2018. Extinction coefficient and photosynthetically active radiation use efficiency of summer rice as influenced by sowing date, *Journal of Env. Biology*, 39: 467-471.
70. Biswas, R., **Banerjee, S.** and Bhattacharyya, B. 2018. Impact of temperature increase on performance of Kharif rice at Kalyani, West Bengal using WOFOST model. *J of Agrometeorol*, 20 (1): 28-30.
71. Sattar, A., Khan, S. A. and **Banerjee, S.** 2018. Evaluation of onset, cessation and length of rainy season for sustainable rainfed crop production in Bihar. *Mausam*, 69 (2): 315-322.

72. Samanta, S., Patra, P. K., **Banerjee, S.**, Narsimhaiah, L., Sarath Chandran, M. A., Vijaya Kumar, P. and Bandyopadhyay, S. 2018. Generation of common coefficients to estimate global solar radiation over different locations of India. *Theoretical and Applied Climatology*, DOI: 10.1007/s00704-018-2531-4.
73. Goswami, B., Hussain, R., Kumar, P.V., Saikia, U.S. and **Banerjee, S.** 2018. Impact assessment of climate change on potato productivity in Assam using SUBSTOR-potato model. *J of Agrometeorol*, 20 (2): 105-109.
74. Chakraborty, P. K., **Banerjee, S.**, Nath, R. and Samanta, S. 2018. The influence of Photo-thermal quotient on the growth and yield of summer rice under varying dates of transplanting and irrigation regimes in lower Gangetic Plains of India. *Current journal of Applied Science and Technology*, 29 (6): 1-14.
75. Sattar, A., Khan, S. A. and **Banerjee, S.** and Nanda, M. K. 2018. Assessing sowing window and water availability of rainfed crops in eastern Indian state of Bihar for climate smart agricultural production. *Theoretical and Applied Climatology*, DOI: 10.1007/s00704-018-2741-9.
76. Sattar, A., Khan, S. A. and **Banerjee, S.** 2018. Assured rainfall analysis for enhanced crop production under rainfed condition in Bihar. *J of Agrometeorol*, 20 (4): 332-335.
77. Chakraborty, A. J., **Banerjee, S.**, Mukherjee, A., Bairagya, M. D. and Ghosh, S. Climate change and weather based Agrometeorological Advisory Service: an analysis from Farmer's Perspectives. *Italian J of Agrometeorology*, DOI: 10.19199/2018.3.2038-5625.005.
78. **Banerjee, S.**, Samanta, S. and Chakraborty, P. K. 2018. Impact of Climate Change on Coastal Agro-ecosystems. *Sustainable Agricultural Reviews*, 33: 115-133. DOI: 10.1007/978-3-319-99076-7\_4.

## Chapter in a Book

---

---

1. Chandrasekharan, H., **Banerjee, S.**, Trivedy, S. M. and Yadav, B.R. 2001. Geophysical techniques for assessment of soil moisture and soil salinity. In: “*Physical Methods of Soil Characterisation*” (Ed., J. Behari), Narosa Publ. House, New Delhi, 101-106.
2. **Banerjee, S.** 2003. Remote Sensing in Agriculture: Scenario in West Bengal (in Bengali), pp. 193 – 200. In: “*30 Years Progress of Agriculture in West Bengal*” (Eds., Raj, S. K., Pan, S. K. and Dasgupta, M. K.), pp. 200.
3. Sattar, A., **Banerjee, S.** and Khan S. A. 2006. Weather forecast in Agriculture (in Bengali), pp. 25 – 26. In: ‘*Samiksha: Ajker Krishi-vabna*’, pp. 143.
4. **Banerjee, S.**, Khan M. R. and Jha, S. 2007. Impact of weather on pest-disease infestation and forewarning system (in Bengali), pp. 233 – 238. In: “*Ajker Krishi-vabna*” (Ed., Mukherjee, N.), National Book Agency Pvt. Ltd., pp. 334.
5. **Banerjee, S.** and Khan, S. A. 2008. Impact of climate change on agriculture over West Bengal. In: Climate change and agriculture over India. (Eds., Rao, G. S. L. H. V., Rao, G. G. S. N., Rao, V. U. M. and Ramakrishna, Y. S.), PHI Learning Pvt. Ltd., New Delhi, 203 – 215.
6. **Banerjee, S.**, Mukherjee, A., Thakur, S., Saikia, B., Samanta, S., Dutta, P. and Patra, P. K. 2016. Solar energy and its partitioning over different crop surfaces: A case study. Eds. S. Chaudhury, A. K. Hazra and S. Balachandran. Jayasree Press. pp. 16-27. (ISBN: 978-81-922916-6-6)

## ***Technical Book and Training Manual***

---

1. Chandrasekharan, H., **Banerjee, S.**, Yadav, B.R. and Singh, A.K. 2001. Assessment of Soil Moisture, Soil Salinity and Groundwater: Geophysical and GIS Approach. Tech. Report No. WTC/WRDI/2001, Water Technology Centre, IARI, New Delhi, pp. 74.
2. Khan, S. A., Saha, A., **Banerjee, S.**, Saha, G., Chakraborty, P. K. and Nanda, M. K. 2008. Analysis of weekly rainfall for planning in West Bengal under rainfed condition. Tech. Book: AICRP on Agrometeorology, Mohanpur Centre, India, pp.115.
3. **S. Banerjee**; A. Mukherjee, S.A. Khan, P.K.Chakraborty, V.U.M. Rao; G.G.S.N. Rao and B. Venkateswarlu. 2010. Glimpses of Research on Agrometeorology in west Bengal. AICRPAM (Mohanpur). B.C.K.V., Mohanpur, West Bengal. 60p.
4. Mukherjee A., **S. Banerjee**, K. Roy, V.U.M. Rao, G.G.S.N. Rao and B. Venkateswarlu. 2010. Weather based decision for growing Kharif rice in West Bengal. AICRPAM (Mohanpur) Tech. Bul. No. 1/2010. BCKV, Mohanpur, West Bengal. 24 p.
5. Jha Chakraborty A., **S. Banerjee**, A.Mukherjee and S. Das. 2013. Awareness and perception of farmers on climate change: West Bengal Perspective, AICRPAM-NICRA, Directorate of Research, BCKV, Kalyani, Nadia, West Bengal, India. 42p.
6. **S. Banerjee**; A. Mukherjee, B. Basu, S. Mukhopadhyay and G. Sarkar. 2013. Contingency crop planning for different Agro-climatic zones of West Bengal. AICRP on Agrometeorology, (Mohanpur Centre), Directorate of Research, B.C.K.V., Kalyani, Nadia, West Bengal.
7. Mukherjee A., A. Saha, G.Saha, L.D as, M.K.Nanda, P.K. Chakraborty, S.A.Khan, S.Sarkar and **S. Banerjee**. 2013. Training Manual for Training Programme on “ Basic aspects of Agrometeorology and weather-based Agromet Advisory Service System”. Organised by : AICRPAM - NICRA Project, Directorate of Research, B. C. K. V., Kalyani, Nadia, West Bengal, India, Sponsored by: CRIDA, Hydrabad. 88p.
8. **S. Banerjee**, M.D. Bairagya, A. Mukherjee, B. Saikia, P. Dutta and C. Halder. 2013. Solar Radiation and Crop Growth, AICRPAM- NICRA, Directorate of Research, B.C.K.V., Kalyani, Nadia, West Bengal, India. 168p.
9. M. D. Bairagya, **S. Banerjee** and A. Mukherjee. 2014. Crop Weather Calendar of *Kharif* Rice, Mustard and Potato. Directorate of Research, B.C.K.V., Kalyani, Nadia, West Bengal, India.
10. Mukherjee A., **S. Banerjee**, S. Mukherjee, S. Samanta and A. Jha Chakraborty. 2014. Agrometeorology requirements and management practices of rapeseed- mustard in Gangetic West Bengal, AICRP on Agrometeorology (Mohanpur Centre), Directorate of Research, B.C.K.V., Kalyani, Nadia, West Bengal, India. 32p.
11. Mukherjee, A., Banerjee, S., Samanta, S., Das-Bairagya, M., Chakraborty, P. and Mahata, D. 2015. Agroclimatic Atlas of West Bengal. Lahor Publication House. P. 249. (ISBN: 978-81-929475-6-3)

## Leaflets

---

---

1. B. Basu; **S. Banerjee**, A. Mukherjee and L. Das: Mushroom cultivation in-house conditions; AICRPAM-NICRA Project, Directorate of Research, B. C. K.V., Kalyani, Nadia, West Bengal. (In Bengali).
2. B. Basu; **S. Banerjee**, A. Mukherjee, L. Das and B. Mondal: Neem extract application in agricultural operations; AICRPAM-NICRA Project, Directorate of Research, B. C. K.V., Kalyani, Nadia, West Bengal. (In Bengali).
3. B. Basu; **S. Banerjee**, A. Mukherjee and L. Das: Disease, Pest and Control for winter vegetables; AICRPAM-NICRA Project, Directorate of Research, B. C. K.V., Kalyani, Nadia, West Bengal. (In Bengali).
4. B. Basu; **S. Banerjee**, A. Mukherjee and L. Das: *Boro* (Summer) rice cultivation; AICRPAM-NICRA Project, Directorate of Research, B. C. K.V., Kalyani, Nadia, West Bengal. (In Bengali).
5. A. Jha Chakraborty, S. Dutta, **S. Banerjee** and A. Mukherjee: Critical stages and time of irrigation of some selected crops. AICRPAM-NICRA Project, Directorate of Research, B. C. K.V., Kalyani, Nadia, West Bengal. (In Bengali).
6. K. Roy, A. Jha Chakraborty, **S. Banerjee** and A. Mukherjee: Pest, Disease and Their Control- Chilli Cultivation. AICRPAM-NICRA Project, Directorate of Research, B. C. K.V., Kalyani, Nadia, West Bengal. (In Bengali).
7. K. Roy, A. Jha Chakraborty, M.D. Bairagya, **S. Banerjee** and A. Mukherjee: Aman (Rainy season) Rice Cultivation. AICRPAM-NICRA Project, Directorate of Research, B. C. K.V., Kalyani, Nadia, West Bengal. (In Bengali).
8. A. Jha Chakraborty, M.D. Bairagya, **S. Banerjee**, A. Mukherjee and K. Roy: Cucurbits- Insects and disease and their control. AICRPAM-NICRA Project, Directorate of Research, B. C. K.V., Kalyani, Nadia, West Bengal. (In Bengali).
9. A. Jha Chakraborty, M.D. Bairagya, **S. Banerjee**, A. Mukherjee and K. Roy: Potato- Insects and disease and their control. AICRPAM-NICRA Project, Directorate of Research, B. C. K.V., Kalyani, Nadia, West Bengal. (In Bengali).

Date: 20.3.19



(Signature)