

CURRICULAM VITAE

Name: - Dr. Asit Kumar Choudhury

Address: - Kutubpur, Nayagram, P.O+Dist: Malda, Pin: - 732101

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Designation: - Retired TIC of L M S M High School (HS), Malda, Retired Headmaster, Govt Model School, Ratua-II, Malda

and

Honorary Assistant Professor, Indian Centre for space Physics, Kolkata

Academic qualification: - M.Sc, B.Ed, PhD

Teaching Experience: - 41 years

Research Interest: - **High**-energy astrophysics, Observational Data Analysis. VLF Wave Propagation.

Awards: -

1. National Scholarship, 1979, Government of India, Ministry of Human Resource Development, for B.Sc.
2. Nation builders award by Rotary club of India in 2017
3. Inspiring best teachers award by University of Engineering & Management, Kolkata. 2018

Research Publications: -

- 1 Evidence of Class Transition in GRS 1915+105 from Indian X-Ray Astronomy Experiment data, S K Chakrabarti, A Nandi, **A Choudhury**, U Chatterjee the Astrophysical Journal, **307**, 406-409, 2004 May 20.
- 2). Class Transition and Two Component Accretion Flow in GRS 1915+105. S K Chakrabarti, A Nandi, A K Chatterjee, **A K Choudhury** and U Chatterjee: Astronomy and Astrophysics **431**, 825-830, 2005
- 3). Different Types of Class Transitions of GRS 1915+105 using IXAE Data, **Asit K Choudhury**, Achintya K Chatterjee, Anuj Nandi: Bull. of Astr. Soc. of India. **35**, 41-52. 2007 March 16.

- 4). Class Transitions of the Compact object CYGNUS X-1 & CYGNUS X-3. - Achintya K Chatterjee, Md Washimul Bari, **Asit K Choudhury**. **82**(11), 1429-1440 (2008)
- 5). Live Coverage of Class Transitions in the Nano Quasar GRS 1915+105. American Institute of Physics. Conf. Proc. 1053 October 8, 2008, **A. K. Choudhury**, A. K. Chatterjee, W. Bari, and S. K. Chakrabarti,
- 6) Anomalous behavior of D-layer formation time of the ionosphere due to earthquake. Achintya K. Chatterjee, Md Washimul Bari, **Asit K. Choudhury**. Indian Journal of Radio & Space Physics Vol. **38**, June 2009, pp. 138-142
- 7). ICSP VLF observation of GRB 090424 from four receivers by Sandip K. Chakrabarti (S. N. Bose Centre and ICSP), Sushanta K. Mondal (ICSP), **Asit K. Choudhury** (ICSP, Malda branch), Achintya Chatterjee (ICSP, Malda Branch), Narendra N. Patra (Univ. Pune) and D. Bhowmick (ICSP) (**GCN no. 9316, 2009**).
- 8). First VLF detections of ionospheric disturbances due to Soft Gamma Ray Repeater SGR J1550-5418 and Gamma Ray Burst GRB 090424. SK Chakrabarti, SK Mandal, S Sasmal, D Bhowmick, **A K Choudhury**. Indian J. Phys. **84** 1461 (2010)
- 9). Detection of Sudden Ionospheric Disturbances due to Solar flares by monitoring the Very Low Frequency signal at Malda, Nandi. N. M., Chatterjee. A. K., Bari. W., **Choudhury A. K.** American Institute of Physics. Conc Proc. 1286. 205-210 (2010).
- 10). Anomalous Behavior of D-Layer Preparation Time of the Ionosphere Due to Earthquakes as observed from Malda (India). Chatterjee, A. K., Bari, W., Nandi N. M., **Choudhury, A. K.** American Institute of Physics. Conc Proc. 1286. 291-297 (2010).
- 11) Correlations between the Anomalous Behaviour of the Ionosphere and the Seismic Events for VTX-MALDA VLF Propagation. Ray. S., Chakrabarti. S. K., Sasmal. S., **Choudhury A. K.** American Institute of Physics. Conc Proc. 1286. 298-308 (2010).
12. "Anomalous behaviours of the VLF signals before earthquakes for VTX-Malda propagation path", Ray. S., Chakrabarti. S. K., Sasmal. S., **Choudhury A. K.** 2011, IEEE Conf. Publication, DOI 10.1109/URSIGASS.2011.6051047.
- 13). Comparison of ICSP VLF observation of GRB 090424 with satellite observations by Sushanta K. Mondal (ICSP), Sandip K. Chakrabarti (S. N. Bose Centre and ICSP), **Asit K. Choudhury** (ICSP, Malda Branch), Achintya Chatterjee (ICSP, Malda Branch), and D. Bhowmick (ICSP) (**GCN no. 11883, 2011**).
- 14) Anomalous behaviors of the VLF Signals before earthquake for VTX-Malda propagation path' by S. Ray, S. K. Chakrabarti and **A. K. Choudhury** at 'XXX URSI General Assembly and Scientific Symposium of International Union of Radio Science' during 13-20 August, 2011

15) Calibration of the VLF Signals for VTX-Malda Propagation Path: Correlation between Ionospheric Anomaly and Seismic Activities by S. Ray, S. K. Chakrabarti, S. Sasmal & **A. K. Choudhury** at '39th COSPAR Scientific Assembly' during 14-22 July, 2012.

16) VLF signals in summer and winter in the Indian sub-continent using multi-station campaigns. SK Chakrabarti, SK Mondal, S Sasmal, S Pal, T Basak, S Chakrabarti, **Asit K Choudhury**. Indian J Phys (May 2012) **86**(5):323–334, May 2012.

17) VLF campaign during the total eclipse of July 22nd, 2009: Observational results and interpretations. S.K. Chakrabarti, S. Pal, S. Sasmal, S.K. Mondal, S. Ray, T. Basak, S.K. Maji, B. Khadka, D. Bhowmick, **A.K. Choudhury**. Journal of Atmospheric and Solar-Terrestrial Physics **86** (2012) 65–70, September, 2012

18) The Very Low Frequency monitoring programme of Indian Centre for Space Physics, Kolkata. SK Chakrabarti, S Sasmal, S Pal, SK Mondal, T Basak, S Ray, **A K Choudhury** 39th COSPAR Scientific Assembly 39, 291, July, 2012

19) Monitoring of sudden ionospheric disturbances with very low frequency signal by ICSP Malda Branch; **Asit K Choudhury**, Achintya K Chatterjee. Ind. J. Mul. Acad. Res. 1 (January 2014) 31-37 (ISSN No. - 2347-9884).

20) From black holes to earthquakes – Saga of a long and lovely journey, **Asit K Choudhury**. Exploring the Universe: From Near Space to Extra-Galactic, Astrophysics and space science proceedings, **53** 357-370, 2018

21) VLF Results of Solar Eclipse Campaigns by Indian Centre for Space Physics. Chakrabarti, Sonali., Sasmal, Sudipta, **Choudhury, Asit Kumar**; Bhowmick, Debasish; Ghosh, Soujan; Ray, Suman; Kundu, Subrata; Chowdhury, Swati; Biswas, Sagardweep. 43rd COSPAR Scientific Assembly. Held 28 January - 4 February, 2021. Abstract C0.3-0018-21 (poster), id.576.

22. VLF Results of Solar Eclipse Campaigns by Indian Centre for Space Physics. Sonali Chakrabarti, Sudipta Sasmal, **Asit Kumar Choudhury**, Debasish Bhowmick, Soujan Ghosh, Suman Ray, Subrata Kundu, Swati Chowdhury, Sagardweep Biswas. 43rd COSPAR Scientific Assembly. Held 28 January-4 February, 2021, 43. 576

23) Observations and modeling of D-region ionospheric response of Annular Solar Eclipse on December 26, 2019, using VLF signal amplitude and phase variation. Ghosh, Soujan, Swati Choudhury, Bari, **Choudhury, Asit Kumar**; Md Washimul et. al. Astrophysics and Space Science 368 (3), 19, 2023.

24) *“Unusual Behaviour of VLF Signal Parameters Before Devastating Nepal Earthquake of 25th April, 2015”* by **Asit K Choudhury**, Sandip K Chakrabarti, Md Washimul Bari and

Achintya K Chatterjee in *Indian Journal of Physics*, DOI <https://doi.org/10.1007/s12648-025-03656-3> (2025).

Organization of Conferences:

LOC of “First International Conference on Very Low Frequency (VLF) Radio Waves: Theory & Observations (VELFRATO-10)”, 13th to 18th March, 2010, S. N. Bose National Centre for Basic Sciences, Kolkata, India.

LOC District-wise Space Science Symposium, 4th June ‘2000, at Malda College Auditorium, organized by Indian Centre for Space Physics, Kolkata, India.

LOC “District-wise Space Science Symposium”, 20th October ‘2001, at Raiganj Coronation High School, organized by Indian Centre for Space Physics, Kolkata, India.

LOC District-wise Space Science Symposium, 21st February 2006, Siliguri, Darjeeling. organized by Indian Centre for Space Physics, Kolkata, India.

LOC District-wise Space Science Symposium, 20th February 2006, Balurghat, Dakshin Dinajpur, organized by Indian Centre for Space Physics, Kolkata, India.

Seminars, Schools, Conferences, meeting Attended:

1. Presented an invited talk on “Unusual Precursory Behaviour of VLF signal parameters Before Devastating Nepal Earthquake, 25th April, 2015” at **Exploring the Universe: Near Earth Space Science to Extra-Galactic Astronomy** 14-17 November, 2018, S N Bose National Centre for Basic Sciences.

2. Presented an invited talk on “**Correlation between ionospheric activities with earthquakes by monitoring Very Low Frequency (VLF) signals**”, at Gour Mahavidyalaya on 13.12.2017

3. Presented an invited talk on “Bio Fuels, a renewable fuel to meet today's and tomorrow's energy needs in a clean and sustainable manner” Presentation at Malda Town Hall on the occasion of WORLD BIO FUEL DAY, Malda, August 12, 2017, **Organized by Ministry of Petroleum and Natural Gas and NYCS (National Youth Co-Operative Society, New Delhi)**.

4. Attended 1st international conference on “**Very Low Frequency (VLF) Radio Waves: Theory & Observations (VELFRATO-10)**” from 13th March, 2010 to 18th March, 2010, at Lecture Hall 2, S. N. Bose National Centre for Basic Sciences, Kolkata, India, organized by ‘S. N. Bose National Centre for Basic Sciences’, Kolkata, India.

5. Presented an invited talk on “CALIBRATION OF THE VLF SIGNAL OF VTX CALIBRATION OF THE VLF SIGNAL OF VTX 18.2 KHz STATION BY A RECEIVER IN MALDA” **The Sharjah-Stanford AWESOME VLF Workshop, College of Sciences, University of Sharjah, Sharjah, UAE, Feb. 22-24, 2010**

6. Presented an invited talk on “DIRECT EVIDENCE OF CLASS TRANSITION IN GRS 1915+105” Second Kolkata Conference on “**Observational Evidence for Black Holes in the Universe**” from February 10-15, 2008 at Vedic village and Radisson Fort, Kolkata, India; organized by S. N. Bose National Centre for Basic Sciences, Kolkata, India.

7. Satellite Meeting on Black Holes, Neutron Stars and Gamma Ray Bursts,

February 16 to 17, 2008, Kolkata, India.

8. Presented an invited talk on “Our Contribution to Popularization of Space Science.” in the seminar “A Decade of Achievements”, December 9th, 2009, Yuba Kendra Auditorium (Moulali), Kolkata, West Bengal, India. Organized by Indian Centre for Space Physics, Garia, Kolkata, India.

9. Attended Symposium on Developments in Space Research in the Last 25 Years, 16th November, 2008, Indian Centre for Space Physics, Kolkata, India.

10. Presented an invited talk on “**Variability Class Transitions in GRS 1915+105**” **Mini-school on Hydrodynamic and Radiative Processes in Astrophysics**, January 31 to February 03, 2007, organized by ‘S. N. Bose National Centre for Basic Sciences’, Kolkata, India.

11. Attended VLF science and electronic circuitry with PCB making workshop organized by Indian Centre for Space Physics, Garia, Kolkata, India, in the month of October’2004.

12. Presented an invited talk on “**Analysis of Class Transition of the Black Hole GRS 1915+105**” at ‘Symposium on Space Research by Malda Scientists’ at the Inaugural Ceremony of Centre For Space Physics Malda branch, Malda, West Bengal, India. On 27.1.2004.

13. **Visited S. N. Bose National Centre for Basic Sciences for two weeks (October 2004)** in connection with Analysis of Indian Satellite Data project under S. K. Chakrabarti.

14. **Attended State Wise Telescope Making Workshop, June 2nd. to June 8th, 2003, Salt Lake, Kolkata, India. organized by Centre for Space Physics, Garia, Kolkata, India**

15. Attended “Workshop on Techniques of Satellite Data Analysis”, July 13th to 14th, 2002, at Seminar room of Indian Centre for Space Physics, Kolkata, India,

16. Attended “**Workshop on Three Generation of Space Physicists of Kolkata**”, 10th December, 2001, at M. P. Birla Planetarium, Organized by Centre for Space Physics, Kolkata, India,

17. Attended “**National Conference on Young Astrophysicists of Today’s India (YATI-2001)**”, March 26th to March 28th, 2001, at M. P. Birla Planetarium, Organized by Centre for Space Physics, Kolkata, India,

18. Attended “**National workshop on Black Hole Astrophysics**”, March 29th to March 30th, 2001, at M. P. Birla Planetarium, Organized by Centre for Space Physics, Kolkata, India,

Programming Languages: 1) Fortran, Latex, GNUPLOT, Surfer, FTOOLS

2) Spectrum for VLF-data analysis.

Participation in Special Events & Experiments:

1) Participated, in Balloon flight Experiment, 22nd July, 2009 Raiganj, during the Total Solar Eclipse, West Bengal, India.

2) Participated in ‘Multi Station VLF campaign all around India and Nepal’ in December, 2008 to January, 2009, Organized by Indian Centre for Space Physics, Kolkata, India,

3) Participated as an expert in Live Telecast of the event of Venus Transit of 8th June, 2004 in which live question/answer session was conducted organized by Malda Cable Network and ICSP jointly.

4) Participated as an expert in Live Telecast of the event of Venus Transit of 4th June, 2012 in which live question/answer session was conducted organized by Malda Cable Network and ICSP jointly.