

Reflections

Quarterly In-house Newsletter



Shri Amit Shah Ji, Hon'ble Union Minister for Home and Cooperation, Chairman of NEC and President, NESAC Society being presented with a memento by Shri S Somanath, Secretary, Department of Space, Government of India and Chairman, ISRO and NESAC GC during the 11th Meeting of NESAC Society

From the Director's desk



The year 2024 started for us on a busy note. the 11th Meeting of the NESAC Society and the 18th Meeting of NESAC Governing Council was led back to back. The Society Meeting Chaired by Shri Amit Shah Ji, Hon'ble Union Home and Cooperation Minister and the President of NESAC Society helped us in assessing the present status in terms of the completion targets for the Plan of Action (PoA) projects as well as our plans for the near future. The meeting that was attended by Shri G. Kishan Reddy Ji, Hon'ble Union Minister of DONER and Chief Ministers of NE states and senior officials from central and state governments, once again vindicated the growing importance that the centre has been getting in the space applications ecosystem.

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A brief report on 11th Meeting of NESAC Society

The 11th meeting of NESAC Society was held on 19th Jan, 2024 at Meghalaya State Convention Centre, Shillong under the Chairmanship of Shri Amit Shah Ji, Hon'ble Union Home and Cooperation Minister and the President of NESAC Society. The meeting was attended by all the distinguished members of NESAC Society. Meeting was also attended by Shri G. Kishan Reddy, Hon'ble Union Minister of DONER and Chief Ministers of NE states. Senior officials from Union Home, Road, Railways and DONER Ministries attended the meeting as Special Invitees.

Shri S. Somanath, Secretary, Department of Space and the Vice President of NESAC Society welcomed all the distinguished members and special invitees to the 11th meeting of the NESAC Society. Dr. S. P. Aggarwal, Director, NESAC and the Secretary of the Society presented the Action Taken Report, achievements and status of projects and activities taken up since the 10th meeting of the Society. He also presented the Annual Reports and Audited

Statement of Accounts for the approval of the Society.

In his remarks, Hon'ble Union Home Minister and the President of NESAC Society congratulated ISRO for success of Chandrayaan-3 and Aditya-L1 missions. He lauded the activities carried out by NESAC addressing the challenges of the region. He also mentioned that NESAC has assisted in providing better transportation network for rail or road using satellite based topographic maps. He stressed that NESAC should work for providing good governance to the last mile citizens using space technology and provide better administrative support.

Hon'ble Chief Ministers from the NE states offered their views on space technology applications being carried out and the additional requirements for their respective states. They also spoke about the status of projects taken up as part of the Plan of Action on the utilization of space technology by various user



Hon'ble President of NESAC Society presiding over the 11th Meeting of NESAC Society. Hon'ble Union Minister of DONER, Hon'ble Chief Minister of Meghalaya, Secretary of MHA and Secretary, DOS / Chairman, ISRO are also seen on the dais

A brief report on 11th Meeting of NESAC Society



The meeting is in progress

departments in NE states. The meeting provided renewed mandate to NESAC to remain focused on the user needs from the region and interact more

with the state governments to meet their requirements.

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The need for the space technology intervention in developmental planning, monitoring, and project execution in the north eastern region of India has been on the rise. More and more line departments are showing interest to use the geospatial technology for their department related activities.

We at NESAC have also been putting our best effort to train and enhance the capacity towards utilization of geospatial technology by the line departments of both the state government departments as well as the central government departments. We have conducted 27 training program in a year and have trained more than 700 professionals, students, and researchers on different aspects of geospatial technology including the application of the same in different thematic areas. Training, capacity building, and outreach activities has been a major vertical at NESAC in line with the same in ISRO. During November-December, 2023, we have taken the Space on Wheels to about 31 destinations across the states of Arunachal Pradesh and Tripura, where more than

30,000 students from more than 95 schools and colleges visited the facility, interacted with the scientists and faculties and could get a detailed familiarization with the Indian space program as well as the space science and technology. The program, done with the support from Vijnana Bharati will be further extended to other states of the North Eastern Region.

The projects and activities of the centre are also going on very well with more than 125 ongoing projects covering diverse thematic areas. A few projects have been completed recently that mostly cover the plan of action identified projects. As we are heading towards completion deadline for the entire range of plan of action projects, we are leaving no stone unturned to complete the projects within the stipulated deadline with absolute quality. I am sure we will be successful to meet the expectations of the NESAC Society and the Governing Council as well as the large number of active users across the nation and particularly from the NER of India.

Antariksh Anusandhaan Yatra' in Tripura

Dr. Shyam S Kundu and Shri Ayan Saha

Public outreach and capacity building has become a mainstream activity for NESAC, in line with that for ISRO. There are several ways how NESAC has been engaging with the public to enhance the awareness about the Indian Space Program as well as about the benefits of the space technology. ISRO has signed an Memorandum of Understanding with the Vijnana Bharati, Government of India for extensive use of the Space on Wheels facility available at five selected centres of ISRO, to popularize the space science and technology across India. NESAC is spearheading the movement for the north eastern region of India. The 'Space on Wheels' available at NESAC has visited Tripura from 16th November, 2023 to 16th December, 2023. The bus stopped at various educational institutions. This has been a great opportunity for the students of Tripura to learn about Indian Space Research. The whole program has been named as 'Antariksh Anusandhaan Yatra'.



Department of Science Technology and Environment, Government of Tripura.

Training of Volunteers: There are several models of rockets, satellites, payloads and scientific dioramas inside the 'Space on Wheels'. Top most priority was given to demonstration of these to the visitors. On 15th November, 2023 a state level training program for Master resource persons were organized at Shishubihar School, Agartala. The Master Resource Persons trained teachers/students at each venue to act as volunteers. In a separate training program at Udaipur Science Centre, more than 130 teachers and students were trained. In this process, a well-trained team of more than 450 people has been created through 'Antariksh Anusandhan Yatra'; which may be considered as one of the major achievements of the yatra.

Special Educational Activities: Apart from exhibition, special educational activities were organized during the yatra. These included Quiz, Meet the Scientist, Rally, Speech Competition, Popular Talk etc. The program was witnessed by



The Yatra in a nutshell: A route map covering all 8 districts of Tripura was finalized after threadbare discussion at several levels. 'Antariksh Anusandhan Yatra' started from Agartala on 16 November, 2023 and ended on 16 December, 2023 in Dharmanagar. Over a period of one month, 'Space on Wheels' was hosted by 23 educational institutions (as provided in the table). More than 33,000 students, teachers and common people visited space on wheels making 'Antariksh Anusandhaan Yatra' the largest ever science based programme in Tripura. The program was inaugurated on 16th November at Shishubihar School, Agartala in presence of several senior officials including Shri Animesh Das, IAS, Director,



Antariksh Anusandhaan Yatra' in Tripura



several leading personalities including Members of Legislative Assembly in Tripura, Deputy Commissioners, etc.

Collaboration: In addition to the Vijnana Bharati, the following government departments and private organizations extended support for 'Antariksh Anusandhan Yatra'.



- (a) Cochin Shipyard
- (b) Samagra Siksha Abhiyaan, Department of School Education, Govt. of Tripura.
- (c) Pranavananda Vidyamandir.
- (d) School of Science, Agartala.



A team of Pranavananda Vidyamandir conducted the quiz programme at 12 spots. Two major programmes were organized at Udaipur Science Centre for free of cost. Host organizations borne a lion's share of expenditure. PIB and other leading media houses extended help for excellent media coverage of the event. Different Departments and organizations/bodies of State Government extended all possible help without which 'Antariksh Anusandhan Yatra' would have never been successful. Countless people helped at personal level. Hundreds of Teachers/ students rendered voluntary service.

ISRO's 'Space on Wheels' exhibition at Pranavananda Vidyamandir

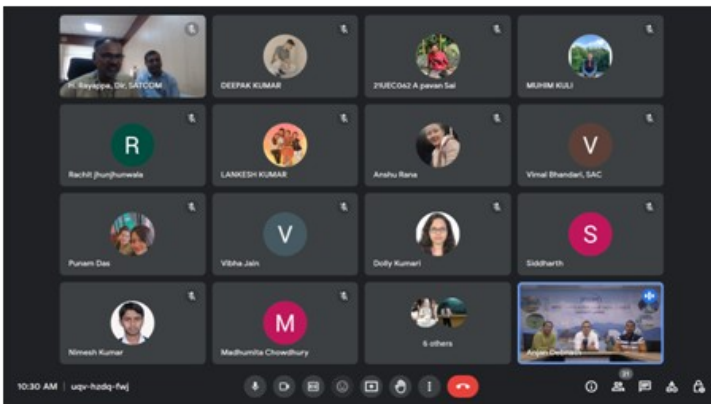


Observer Reporter
Agartala: Nov 20. The 'Space on Wheels' exhibition, a unique initiative to showcase the achievements of the Indian Space Research Organisation (ISRO), reached Tripura. The exhibition, which is part of the 'Antariksh Anusandhan Yatra', aims to inspire and educate students and enthusiasts about the wonders of space exploration and the role of ISRO in advancing the nation's space capabilities. The inaugural ceremony was attended by Sreemat Swami Pandey, state coordinator Ayan Kumar Saha and other respected members of the school managing committee. Along with the exhibition, the programme also included a school science exhibition, a quiz, a speech competition, a...

Training programs organized by NESAC

NESAC Conducts One Week Online Course on SATCOM & SATNAV

The third edition of online Course on Satellite Communication & Satellite Navigation: Technologies & Applications was conducted at NESAC during October 09-13, 2023. A total of 55 participants registered for the course mainly from NITs and other Engineering Colleges. A total of 13 lectures were delivered by Scientists of SUD, NESAC as well as thematic experts from Space Applications Centre (SAC), Ahmedabad, Satcom Program Office (SATCOM PO), ISRO HQ and Industry Experts. The course covered topics like basics of Satellite Communication & Navigation, Ground Station, RF, Baseband technologies, and applications of SATCOM & SATNAV with special emphasis to High Throughput Satellites (HTS) for Internet Services, Mobile Satellite Services (MSS) applications for Disaster Management & NavIC Applications. The Course was inaugurated by Shri H. Rayappa, Director, SATCOM PO, ISRO HQ. Sri Anjan Debnath, SUD, NESAC acted as the Course Officer while Sri Ramani K. Das, Head, SUD, NESAC was the Course Director for the Course.



NESAC conducts two-week course on UAV RS Technological Advances and Applications

NESAC, under its capacity-building and outreach program, conducted a two-week course on UAV Remote Sensing Technological Advances and Applications for the candidates who registered via NESAC online portal. A total of 18 candidates, including students and working professionals from various departments and colleges from different states, attended the course. The Geoinformatics and

IT Division (GID) and the SATCOM and UAV Division (SUD) of NESAC jointly conducted the course. The inaugural program started with a welcome address by the Course Director, Shri Victor Saikhom, Dr. K.K. Sarma, Group Head, RSAD, NESAC, welcomed all the participants and delivered an overview of the course. The inaugural program was concluded with a vote of thanks offered by Shri Sanjay Pandit, Course Officer.

NESAC conducted two-week course on Applications of Remote Sensing and GIS in Water Resources and Flood Management



A two-week course on “Applications of Remote Sensing and GIS in Water Resources and Flood Management” was conducted from November 13-24, 2023 at the NESAC Outreach Facility. In total, 18 participants from government departments and academia from different parts of India attended the course. During the inaugural session, Dr. S.P. Aggarwal, Director, NESAC welcomed all the participants and gave a detailed insights of the course. The course was designed to provide a thorough understanding of the practical applications and intricacies of utilizing remote sensing and GIS technologies to monitor, analyze, and manage water resources, with a particular focus on flood management. The use of HEC-HMS, QGIS, HEC-RAS, SNAP and GEE has also been introduced in the practical sessions apart from 13 in depth theory sessions. The course concluded with the valedictory program held on November 24, 2023. Director, NESAC addressed the participants, inspired and

Training programs organized by NESAC

encouraged all to use these powerful technologies for their developmental planning and governance. On this occasion, Chief Guest, Er. (Mrs) A D Blah, Chief Engineer, Meghalaya Water Resources Department spoke on the importance of geospatial technologies and congratulated the participants for their enthusiastic and active participation before presenting the course completion certificates to all the participants. The program concluded with a formal vote of thanks offered by Dr. Diganta Barman, Course Director & Head of Water Resources Division, NESAC.

NESAC conducted one week capacity building programme on Geo-Spatial Technologies & Applications

NESAC conducted one week capacity building programme on Geo-Spatial Technologies & Applications (GSTA) during November 21-25, 2023 organized jointly by ISRO and Capacity Building Commission (CBC) simultaneously at two locations, namely Regional Remote Sensing Centre (RRSC) North, New Delhi and North Eastern Space Applications Centre (NESAC), Umiam. The program was inaugurated virtually by Hon'ble Minister of State (I/C), Ministry of Science and Technology, Prime Minister's Office, Ministry of Personnel, Public Grievances and Pension, Department of Atomic Energy and Department of Space, Dr. Jitendra Singh in presence of Secretary DOS, Chairman ISRO Sri S. Somanath and Sri Adil



Zainulbhai, Chairman Capacity Building Commission, 21 participants from all over India representing 13 departments have participated in the training. The training programme has been coupled with lectures and hands-on exercises to ensure that the officials not only comprehend theoretical concepts but also gain practical expertise that can be directly applied to their work. This course content was designed to enhance their knowledge and skills in utilizing geospatial technologies for a variety of applications in their respective domains of activities. Mr Harish Chandra Choudhary, Principal Chief Conservator of Forest, Government of Meghalaya delivered an expert talk and shared success stories on the use of geospatial technology to the participants. On 25th Nov 2023, the valedictory program was organized, where Prof D P Goyal, Director, Indian

Institute of Management (IIM), Shillong graced the occasion as the chief guest. During valedictory session, summery report was presented by Dr Jonali Goswami, Program Coordinator, O&CB, NESAC followed by feedback from participants and distribution of certificates. The program ended with vote of thanks by Dr Francis Dutta, Scientist, NESAC on behalf of the organizing committee of GSTA at NESAC.



Training programs organized by NESAC

NESAC conducted two weeks short course on “Remote Sensing and GIS applications in Forestry and Ecology”

Two weeks short course on “Remote Sensing and GIS Applications in Forestry and Ecology” was conducted by Forestry and Ecology Division (FED), NESAC during December 04 -15, 2023 at NESAC Outreach Facility. A total of 30 participants attended the course, which includes officials from Forest departments of NER, faculties from colleges and universities, research scholars and post graduate students. The inaugural programme started with the welcome address by Dr. Kasturi Chakraborty, Head, FED. An overview of course was briefed by Smt. H. Suchitra Devi, Course Director, Scientist/Engineer-‘SF’ followed by introduction of participants. Dr. K. K. Sarma, Group Head, Remote Sensing and Application Group welcomed and addressed the participants on the importance geospatial technology in various application of forest ecosystem such as forest management, forest working plan preparation etc. and utilization of the training in their professional carrier. Dr. S. P. Aggarwal, Director NESAC also interacted with the participants during the course and shared his insights and experience on use of RS and GIS in forestry and ecology applications

The course curriculum includes fundamental concepts of remote sensing and GIS, GPS and hands-on training with remote sensing data and relevant software. The specific topics covered in the course are forest cover and density mapping, growing stock and biomass assessment, wildlife habitat evaluation, species distribution modelling, forest fire monitoring and burnt area assessment. A brief introduction to advance remote sensing applications such as UAV, hyperspectral and microwave remote sensing were imparted to the participants during the training. Dr. Sudhakar Reddy Chintala Head, Forest Biodiversity and Ecology Division, NRSC, ISRO was invited as

resource person to deliver a talk on “Biodiversity Monitoring and Assessment Using Remote Sensing and GIS”.

To provide practical exposure on familiarization of the satellite images and their real world applications, a field visit to Sohra was conducted on December 9, 2023. Finally, five mini projects (group-wise) were carried out by participants and the themes of the projects were on Forest cover change analysis, conserving wildlife, forest fragmentation analysis and forest fire risk assessment. The results of the projects were presented by the lead member of each group. The valedictory program on December 15,



2023, marked the successful conclusion of the course, with certificates distributed to participants and acknowledging their completion of the training. The programme was concluded with vote of thanks offered by Dr. Dhruval Bhavsar, Course Officer, Scientist/Engineer-‘SC’.

Training programme on GeoWeb applications and UAV services in disaster management support

One day training programme on GeoWeb Applications and UAV Services in Disaster Management Support was organized for NDRF, Guwahati on 5th January, 2024. It covered few lectures cum demo on North Eastern Regional Node for Disaster Risk Reduction Node (NER-DRR), North Eastern Spatial Data Repository (NeSDR), Bhunidhi and UAV services. Shri Pankaj Kavidayal, 2IC, NDRF along with other 22 officials/staff of

Training programs organized by NESAC



NDRF has participated in the training programme. During the valedictory programme, Dr SP Aggarwal, Director, NESAC interacted with the participants and offered his valedictory remarks. Dr Dibyajyoti Chutia, Head, GID has coordinated the programme on behalf of NESAC.

NESAC conducted NNRMS sponsored course on fundamentals of Remote Sensing and GIS

NESAC conducted a two-week NNRMS sponsored course on 'Fundamentals of Remote Sensing and GIS' using open source software and python programming during 22nd January to 2nd February, 2024., This comprehensive course aimed at equipping participants with profound insights and practical skills in the realm of remote sensing and GIS. The course was meticulously designed into 10 modules, dealing with various aspects of geospatial technology, fostering a holistic understanding among the participants. The modules covered are introduction to Concepts of Remote Sensing, Introduction to Concepts of GIS, Raster and Vector Geospatial Analysis, Image Processing, Advanced Geospatial Analysis, Beyond the Frontiers of Multispectral Remote Sensing, Emission and Scattering based Remote Sensing, Data Dissemination, Field Work and Guided Projects. The project entailed implementation of machine learning libraries using the Python API of Google Earth Engine. In addition to the comprehensive course modules, NESAC facilitated enriching guest lectures

by eminent scientists viz., Prof. YS Rao from IIT Bombay and Prasun Kumar Gupta from IIRS Dehradun, providing participants with valuable insights. A distinguishing feature of the NNRMS course was its emphasis on open-source software tools such as QGIS and Python. By leveraging these widely accessible tools, participants gained the ability to work with geospatial datasets effectively, even in scenarios where commercial software might not be available. Overall, the NNRMS course by NESAC served as a catalyst in empowering geospatial enthusiasts with the requisite knowledge and skills to navigate the dynamic landscape of remote sensing and GIS. Dr S.P. Aggarwal, Director, NESAC chaired the Valedictory program of the course on 2nd Feb, 2014 and distributed certificates to the participants. A total of 13 participants attended the course.



18th Meeting of the NESAC Governing Council (GC) held on 4th December, 2023

The 18th meeting of the NESAC Governing Council (GC) was held on 4th Dec, 2023 under the chairmanship of Shri S Somanath, Secretary, Department of Space (DOS) & Chairman, NESAC GC on virtual mode. The meeting was attended by the Secretaries of Science & Technology from NE states, Additional Secretary (Personnel), DOS, Additional Secretary & Financial Adviser, DOS, Scientific Secretary, ISRO, Directors of Space Applications Centre, Ahmedabad and National Remote Sensing Centre, Hyderabad, Director, IIT Guwahati, Vice Chancellor, NEHU in addition to the senior officials from ISRO/DOS and other central government organizations in NER.

Members of the GC approved the minutes of the 17th Meeting of the NESAC GC held on 5th May, 2023 and reviewed the status of action identified during the 17th GC meeting.

The Governing Council reviewed the different technical activities of the centre and appreciated the significant contributions of NESAC in providing space-based supports for developmental planning in NER. GC provided the necessary direction and guideline to NESAC for timely execution of the projects and other activities of the centre.

The Governing Council also approved the Annual Report for FY 2022-23 along with audited annual accounts and budget for 2022-2023.



NESAC participates in the 43rd INCA International Congress – 2023 at RRSC-West, Jodhpur

NESAC participated in the 43rd INCA International Congress – 2023 on “Emerging Trends in Digital

Cartography for Sustainable Ecosystems and Geospatial Economy” at RRSC West, Jodhpur, Rajasthan, during November 6-8, 2023. The event was organized by the Indian National Cartographic Association and drew participants from various prominent organizations across the country.

NESAC participated in the exhibition and showcased



its activities, attracting a diverse and enthusiastic audience. Vice Admiral Adhir Arora, AVSM, NM who was the Guest of Honour during the inaugural program, visited the NESAC exhibition stall with other distinguished dignitaries from various organizations and interacted with NESAC team members. Dr. Dhruval Bhavsar and Shri Himangshu Jyoti Das participated and represented NESAC during the event. Director, NESAC participated as a keynote speaker in the panel discussion on “Roadmap for Strengthening Geospatial Ecosystem for National Development.” He shared insights on the necessity of data continuity and frequency, highlighting NESAC’s activities in fulfilling data requirements from different line departments of the north eastern states.

Secretary, MDoNER reviewed NESAC progress at Vigyan Bhawan, New Delhi

Dr S P Aggarwal, Director, NESAC has attended a meeting at MDoNER on 9th Nov, 2023 under the chairmanship of Secretary, MDoNER to discuss the use of Space Technology in improving developmental capacities and governance in the NE region. Director, NESAC has made a brief presentation on the supports of Space Technology for development of NE region along with three new proposals for consideration by the MDoNER.

Director, NESAC was accompanied by Dr B R. Nikam, DD, EDP, ISRO HQ, Dr BK Handique, Head, ASD & PPEG and Dr D Chutia, Head, GID.



Secretary, Ministry of DoNER, Govt. of India visits NESAC

Shri Chanchal Kumar, Secretary, Ministry of Development of North Eastern Region (MDoNER), Govt. of India visited NESAC on 19th Nov, 2023, who was accompanied by Shri Tanung Jamon, Director, S&T, North Eastern Council (NEC), Shillong. He visited various facilities of NESAC and interacted with Scientists of the centre and took a stock of various projects and activities of the centre. Scientists of NESAC made demonstrations of various geoportals and dashboard systems such as NER-DRR portal, NeSDR portal, Project Monitoring dashboard etc. Secretary, MDoNER appreciated the excellent work being carried out by NESAC and suggested come up with new programs adopting advanced geospatial technology that are relevant to the growth and development of NE region. Dr. S.P. Aggarwal, Director, NESAC offered his gratitude to the Secretary, MDoNER for his



maiden visit to NESAC and felicitated him on behalf of NESAC staff.

Half Day Seminar on Enhancing Accountability through Geo-Spatial Technology

Half day seminar on “Enhancing Accountability through Geo-spatial Technology” was organized by the Office of the Principal Accountant General, Shillong in collaboration with NESAC on 24th Nov, 2024 as part of the Audit Diwas. The seminar was started with the opening remarks by the Shefali S Andaleeb Pr Accountant General (Audit). Shri CH Kharsiing, Pr Accountant General (A&E) has spoken on Role of the C&AG in ensuring Accountability of the Executive. Dr SP Aggarwal, Director, NESAC has given a talk on the role of Space Technology supports for the development of NE region. Dr Dibyajyoti Chutia, Head, GID made a presentation on the ICT enabled Geospatial Technology towards empowering Governance activities in NER while Shri Nilay Nishant, Scientist-SE, GID has given live demonstration on various Governance applications developed by NESAC.

The eNortheast Award 2023 for ‘NEC Geotagging/ Geo-Monitoring Project’



The 8th eNortheast Award 2023 (Winner), was conferred to NESAC for ‘GeoTagging and Monitoring of NEC/MDoNER funded Projects/schemes in NE region using Geospatial Technology and Tools’ for Best Digital Innovation in the category of Government & Citizen Engagement. The project was carried out by NESAC in collaborations

with all State Remote Sensing Applications Centres of NER. The award was conferred on 25th Nov, 2023 during the 8th eNortheast Award 2023 held at Royal Global University, Guwahati, Assam. Shri PS Singh, Scientist-SF, and Shri Victor Saikhom, Scientist-SF, presented a comprehensive technical presentation to the Award Jury Committee on November 24, 2023, in defense of the award.

Delegates from South East Asian Countries visited NESAC as a part of the Mekong-Ganga Cooperation training program

19 Delegates from five countries of South East Asia along with officials from North Eastern Regional Institute of Water and Land Management (NERIWALM), Tezpur visited NESAC as a part of their training organized by the Ministry of Jal Shakti, Govt. of India through NERIWALM on 30th November 2023. A lecture session was organized for the delegates by Water Resources Division (WRD), NESAC at NESAC Outreach facility. The session was chaired by Dr. Diganta Barman, HOD, WRD and moderated by Shri Ranjit Das, Sr. Scientist, WRD.

Four lectures were delivered by Scientists from different divisions of NESAC on use of geo-spatial technology in water resources management, Hydrological/ hydraulic modeling using geospatial inputs application of geo-spatial technology for agricultural development and emerging technologies for government application etc. A brief presentation on various mobile applications & services developed by NESAC for various states & central govt. departments were also given. The visit concluded with a valedictory function chaired by Director, NESAC.



Review of SMART AXOM Application by the Chief Secretary of Assam



Shri Paban Kumar Borthakur, IAS, Chief Secretary of Assam taken review of SMART AXOM application on 12th December, 2023 in the Chief Secretary's conference room. The meeting was attended by Shri Ravi Kota, IAS, Additional Chief Secretary, Home & Political Dept and IC & Public Enterprises, Shri Avinash Joshi, IAS, Additional Chief Secretary (H&FW) Dept, Shri Gyanendra Dev Tripathi, IAS, CEO, ASDMA and other senior officials of Assam Government. NESAC made a presentation on the SMART AXOM application which is developed under the project "Integrated WebGIS Platform for Dissemination of Real time Early Warnings/Alerts and Enabling Analytics in Spatial Domain for Monitoring and Management of Disaster Events" sponsored by ASDMA. Dr Dibyajyoti Chutia, Head, GID & Principal Investigator of the project, Dr Rekha Bharali Gogoi, Focal Scientist, NER-DRR and Shri Nilay Nishant, Scientist-SE, GID attended the review meeting.

User Interaction Meet at Kohima

Nagaland GIS & Remote Sensing Centre (NGISRSC) and North Eastern Space Application Centre (NESAC) jointly organized one day User Interaction Meet in Kohima on 14th December, 2023. The main objective of the event was to review and highlight the deliverables and benefits of the outcomes of the projects taken up as part of the Plan of Action (PoA) of Nagaland and also to showcase the utilization of NeSDR geoportal towards empowering governance activities. The event was graced by Shri R Ramakrishnan IAS, Principal Secretary, and Development Commissioner, Government of Nagaland. Er M Kithan, Project

Director of NGISRSC, extended a warm welcome to all participants, setting the stage for the user meet. Dr Dibyajyoti Chutia, Head, GID, NESAC made a presentation on the ICT enabled Geospatial Technology towards empowering Governance activities followed by live demonstration on NeSDR, NER-DRR and SMART AXOM geoportals. The meet was ended with interactive feedback session with all the participants nominated from around 15 Line Departments of Government of Nagaland.



Launching of Meghalaya Geospatial Health Resource Information System

The Department of Health Services (DoHS) in Meghalaya officially launched the Geo Web Portal for Health Centres on 20th December 2023. Dr. HC Lyndem, DHS (MI), inaugurated the portal at the DHS headquarters, emphasizing its role in accessibility and gap analysis for identifying vulnerable populations in remote areas. The application was developed by North Eastern Space Applications Centre (NESAC) in collaboration with DHS (MI), the Health Geo Web Portal and employs satellite imagery and a mobile application to geo-tag all health resources in the state. This initiative is pivotal for assessing existing health facilities, taking into account factors such as road connectivity, population density, and topography.

During the launch, senior scientist PS Singh from NESAC provided a detailed technical presentation, underscoring the necessity of space-based solutions. Dr. Dibyajyoti Chutia, Head of the Geo-Informatics division at NESAC, overseeing the project, highlighted governance solutions implemented in various departments in the North Eastern region. The

event, attended by DHS staff and senior scientists from NESAC in Umiam, aims to optimize the placement of health resources and plan new infrastructure for maximum statewide coverage.



The comprehensive mapping of existing health facilities is a crucial aspect of effective healthcare planning. The Meghalaya Geospatial Health Resource Information System integrates these insights into a Unified Geo-Health Information System, combining map intelligence, applications, health data, and people for holistic decision-making.

NESAC celebrates 75th Republic Day of the Nation

The 75th Republic Day of the Nation was celebrated



News & Events

at NESAC on 26th January 2024 with a colorful program. Dr. S.P. Aggarwal, Director, NESAC hoisted the tricolor amidst singing of national anthem by the staff of NESAC at 09:00 AM. The CISF unit of NESAC offered a guard of honour to Director, NESAC and performed Republic Day parade.

Director, NESAC addressed the staff of the Centre with an informative speech, where he highlighted the significance of Republic Day celebration and briefed about the activities and achievements of ISRO and NESAC in recent times. Following this, a mock drill exercise was exhibited by the CISF Unit of NESAC, where they exhibited handling a terrorist infiltration scenario with a speeding vehicle. This was followed by distribution of sweets to the staff and a colourful cultural program organized by the NESAC Sports & Recreation Committee at NESAC auditorium.. NESAC Staff as well as staff of NESAC CISF Unit

& their families and children took part in the program.

Workshop on innovative practices in irrigation sector for sustainable Agriculture development, organised by the Irrigation Department, Govt. of Assam

Dr. S. P. Aggarwal, Director, NESAC has attended the Workshop on Innovative Practices in Irrigation Sector for Sustainable Agriculture Development, organised by the Irrigation Department, Govt. of Assam. The workshop was also attended by Shri S. Abbasi, Addln. Commissioner & Secretary, Irrigation Dept., Govt. of Assam; Shri V.K. Mittal, Commissioner & Secretary, Irrigation Dept., Govt. of Assam; Shri P. R. Khound, Secretary, Irrigation Dept., Govt. of Assam; Dr. Nayan Sharma, Rtd. Professor, IIT, Roorkee; Prof. A. K. Sharma, IIT, Guwahati; and several dignitaries & senior officials of Irrigation Dept., Govt. of Assam.



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