APN
ASIA-PACIFIC NETWORK FOR
GLOBAL CHANGE RESEARCH

FINAL REPORT

Integrated Climate Action Planning (ICLAP) 2050 Tool in Asia-Pacific Cities

CRRP2020-04MY-SETHI

2024

HOKKAIDO UNIVERSITY

Prince of Songkla University

isard

Indian Society for Applied Research & Development

BEIJING INSTITUTE OF TECHNOLOGY

CHARLES DARWIN UNIVERSITY AUSTRALIA

Kyoto Women's University 京都女子大学

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1. Summary

The climate change phenomenon has global GHG contributions and implications; yet there is a growing and unequivocal consensus that the 2°C global warming challenge can be dealt with concerted local actions. At the same time, local governments in Asia-Pacific cities face triple challenge of addressing local economic development goals to improving standards of living, abatement of air-pollution and GHG emissions and protecting their citizens from extreme climate events. There are some crucial knowledge gaps that impede and delay local action, notably non availability of reliable empirical information on: (a) Short, mid & long-term climate vulnerability scenarios at sub-national level (b) How variedly do different societies contribute to climate change their GHG structures, and (c) What useful climate actions are local governments taking, across the globe. This necessitates into developing smart tools having capability to integrate such wide-ranging and complex data, process it for city governments to undertake evidence-based decisions on future climate initiatives.

Starting from five countries in the Asia-Pacific region i.e. India, Japan, China, Thailand and Australia, this project aimed to create a collaborative research network of experts in preparing an Integrated Climate Action Planning (ICLAP) tool. ICLAP is a decision-making tool for 49 Asia-Pacific settlements with 5 million+ population that enables them in taking evidence based climate actions. It adopts an advanced methodology of integrating 3 different knowledge domains/ analytics: (a) Spatial: Downscaling global/ regional climate scenarios to forecast local climate variability (50 km x 50 km) for 2030 & 2050, (b) Statistical: Meta-analysis of 49 five million-plus cities in Asia to forecast demographics, economy, energy & GHGs, (see Annexure for complete list) and (c) Bibliometric: Systematic review of climate interventions- mitigation and adaptation from city case studies world-wide (from Web of Science/ Google scholar database).

The ICLAP methodology involves local stakeholders including urban agencies, professionals, universities and scholars in needs assessment, ideating, testing/ trials and gaining feedback on the tool through several formal meetings, workshops and conferences and training outcomes across collaborating cities in the region. The findings not only suggest future development pathways and discreet 41 potential urban climate solutions (identified from 5635 global case studies), but the project is useful in guiding national urban policies along with promoting international climate research cooperation. The project culminates with 10 publications (1 ISBN book, 3 peer-reviewed journal papers, 2 policy briefs, 4 proceedings); 4 international results conference and joint/ hybrid training workshops involving 5 countries and over 110+ urban professionals and scholars trained to use smart ICLAP tool, along with a strong commitment to expand its reach *in practice*- working with more local agencies in enhancing ICLAP's on-ground application), *hierarchically*- (including smaller towns within the Asia-Pacific region and *geographically*- in cities from other countries/ continents.

2. Objectives

The aim of this project is to collaborate in preparing an evidence based decision making tool for integrated climate action (ICLAP) that includes mitigation and adaptation measures. The research addresses the following specific objectives:

1. To integrate datasets from 3 different knowledge domains/ disciplines- climate variability (climate science, spatial studies/GIS), quantitative meta-data from 49 Asia Pacific Cities (Social science, Environmental science) and published literature of case studies/ best practices (Data Science/ Bibliometric).
2. Trend analysis and Scenario-making:- To determine current situation, trends and forecast (a) local climate scenarios (b) city GHG profiles, for 2030 (SDG target year) & 2050
3. To systematically review best practices, policies & case study literature on local climate actions.
4. To coalesce all synthesized information at an appropriate scale for practical application in designing an easy to use, ICLAP tool that enables decision-making process.
5. To demonstrate how the ICLAP can be utilized by policy makers and relevant stakeholders for developing a road map (strategic plan) of selected cities, up for 2030 & 2050.
6. To communicate the use of ICLAP tool for local climate action planning.

3. Outputs, Outcomes and Impacts

Based on the original objectives, the key outputs, outcomes and impacts are discussed below:

Outputs	Outcomes	Impacts
1. Developed ICLAP- an evidence based tool that enables local governments, stakeholders, academics, researchers, etc. to integrate data on local climate variability, GHG profiles of diverse development pathways and evaluate possible policy alternatives based on global evidences. 2. Accomplished expert group meetings and stakeholder consultations towards establishing data availability and local needs assessment. 3. Successfully completed	1. More participation of urban professionals in addressing the global climate agenda 2. Greater inter-disciplinary coordination amongst scientists, practitioners and academicians. 3. The international collaboration developed between research institutions of the Asia-Pacific during this project would further enhance and expand. 4. Greater evidence-based reporting of climate change impacts in cities.	1. Renewed focus on how cities can simplify complex data on climate change for mid to long-term policy 2. Greater awareness about climate variability, hazards and vulnerability in urban areas. 3. Improved comprehension of climate challenges and necessary urban action amongst decision makers 4. Higher energy efficiency, urban services and quality of

International Results Conference with 40 inter-disciplinary participants 4. Organized three joint/ hybrid workshops in Japan, India, Australia and Thailand training over 78 participants, mostly early career professionals 5. Published 1 ISBN book, 2 policy brief, 3 peer-reviewed journal papers (including PLOS, Springer), 4 proceedings	5. More integrated and systematic approach in dealing with the climate challenge at the local level.	life in sample cities. 5. Promotion of low-carbon economy, net zero solutions amongst Asia-Pacific cities 6. Better planning and governance of urban areas.

4. Key facts/figures

Based on the above assessment (section 3), notable facts and numbers pertaining to the project are mentioned below:

- Over 41 urban climate solutions identified out of 5635 global case studies
- First of its kind integrated portal for cities (https://iclap2050.in/) providing open-access to ICLAP tool supported on tableau platform
- 110+ urban professionals and scholars from 9 cities trained to use smart ICLAP tool
- 1 ISBN book, 2 policy brief, 3 peer-reviewed journal paper, 4 in-house proceedings published under this project
- 6 events held including stakeholder meetings, international results conference, training workshops, etc. involving 5 countries in both physical and virtual space
- 70+ early career researchers (postgrad and PhD scholars) trained

5. Publications

Sethi, M. (2024). ICLAP 2050: Integrated Climate Action Planning in Asia Pacific Cities. In Integrated climate action planning (ICLAP) 2050 tool in Asia-Pacific cities (1.0, pp. 1–224). Indian Society for Applied Research & Development. ISBN 978-93-5917-005-3.
DOI 10.5281/zenodo.10071297

Sethi M, Creutzig F (2023). Leaders or laggards in climate action? Assessing GHG trends and mitigation targets of global megacities. *PLOSClim2(1):* e0000113.
https://doi.org/10.1371/journal.pclm.0000113
https://journals.plos.org/climate/article?id=10.1371/journal.pclm.0000113

Sethi, M., & Mittal, S. (2022). Developing a smart tool for integrated climate action planning (ICLAP 2050) in Asia-Pacific Cities. *Computational Urban Science 2*, 45. doi.org/10.1007/s43762-022-00074-7. https://link.springer.com/article/10.1007/s43762-022-00074-7

Sethi, M., Liu, L.-J., Ayaragarnchanakul, E., Suwa, A., Avtar, R., Surjan, A., & Mittal, S. (2022). Integrated Climate Action Planning (ICLAP) in Asia-Pacific Cities: Analytical Modelling for Collaborative Decision Making. *Atmosphere*, *13(2),* 247. doi:10.3390/atmos13020247 https://www.mdpi.com/2073-4433/13/2/247

Sethi, M. (2021). It's sink or swim for Asia Pacific's big cities in the war on climate change. East Asia Forum, 23 November 2021. https://www.eastasiaforum.org/2021/11/23/its-sink-or-swim-for-asia-pacifics-big-cities-in-the-war-on-climate-change/

Sethi, M. (2021). Perspective- It's sink or swim for Asia Pacific's big cities in the war on climate change. East Asia Forum, 22 December 2021. https://www.apn-gcr.org/perspective/its-sink-or-swim-for-asia-pacifics-big-cities-in-the-war-on-climate-change/

In addition, there are several in-house institutional publications/ proceedings.

6. Media reports, videos and other digital content

Please find below the online digital content related to the project

1. Project website: https://iclap2050.in/
2. ICLAP project webpage: https://isardorg.in/iclap-2050
3. ICLAP 2050 Tool: https://public.tableau.com/app/profile/shilpi.sethi/viz/iclap2050/dashboard1

The summary of international dissemination activities and events along with visual/ photographic material is provided here:

International Workshop (Virtual) on Integrated Climate Action Planning Tool (ICLAP), March 2021

The meeting helped the experts from different countries to understand different data structures/ inventories, policies for urban climate, data or knowledge gaps, and discuss the expected data structures/ indicators for further analysis to develop an ICLAP tool. Owing to the pursuing Covid-19, the event originally planned in Japan was organized in virtual mode with full attendance by concerned team members/ experts.

Stakeholder Workshop on ICLAP 2050 Tool for The Asia-Pacific Cities; September 2021

The main objective of this expert workshop is to enable a sufficient amount of dialogue between scientists, policy-makers and academicians in order to discuss about key development trajectories and issues, data structures of urban, environmental, economic, social, climate aspects, data availability and integration in N Delhi for contribution towards preparing the ICLAP 2050 tool.

The International Urban Climate Conference, New Delhi + Online, January 2023

The aim of the International Urban Climate Conference 2023 (IUCC) is that despite lingering COVID-19 related travel challenges, enable a sufficient degree of interaction between scientists and policy-makers to discuss ICLAP project results, especially in context of key development trajectories and urban climate and environmental issues. It is important to have a holistic understanding of the expert's opinions on ICLAP findings in their country/ region as in what are the most important takeaways for their cities? and What measures can be taken for implementing these findings while overcoming local developmental or governance related challenges? Secondly, IUCC 2023 intends to introduce ICLAP 2050 tool to urban decision makers, policy planners, urban experts, research scholars, students, etc. through hands on testing/ training of the tool, its different features, demonstrating possible applications in practice, along with scientifically reporting its results. The conference thus not only shares recent project findings with different stakeholders but also incites their opinions to pave a way forward for integrated climate planning in the Asia-Pacific.

Joint/Hybrid Training Workshop by ISARD New Delhi and Hokkaido University, Japan; May 2023

Day I: Project meetings by team members

Day 2: Lecture: Need of Integrated Climate Action Planning

- Cities and climate change- causations and impacts
- Issues in scientific evaluation of urban climate change
- Methods- Introduction to the ICLAP model
- Discussion and feedback

Day 3: Using the ICLAP 2050 tool, a hands on training

- Elements of the ICLAP 2050 tool
- An introduction of the tool features
- Interpreting results for practical application
- Reporting and referencing ICLAP 2050
- Discussion and feedback

Joint/Hybrid Training Workshop by ISARD New Delhi, DIPL and Charles Darwin University, Australia; November 2023

Day I: Project meeting by team members and interactive session between ICLAP and the CDU faculty

Day 2: Training workshop - lecture and hands-on session

Climate change represents a significant challenge to individuals, communities, governments, businesses, industry and the environment globally. Australian Academy of Science published scientific projection of Australia under 3°C of global warming – a future we all must prepare for. This aligns with the global consensus on limiting temperature rise to under 2°C through local action. However, at the local level, there is disintegrated knowledge on: (a) short-, mid- and long-term climate vulnerability, (b) the current economy and GHG structures and their future pathways, and (c) useful mitigation and adaptation measures undertaken elsewhere. Key scholars from selected countries largely supported by APN developed an Integrated Climate Action Planning (ICLAP) model which serves as an evidence-based decision making tool for policy makers, planners and urban experts. This training workshop jointly organized by ISARD New Delhi, Charles Darwin University and Department of Infrastructure, Planning and Logistics (DIPL), Northern Territory Government is meant to learn about ICLAP. The tool adopts an innovative methodology integrating knowledge, data and diverse analytics i.e. spatial, statistical and bibliometric analysis that collectively aid cities on policy inputs for mid-term urban climate variability, GHG profiles and available solutions at local disposal. The participants find that the collaboratively designed open-access tool is useful in scientific reporting on future climate scenarios, guiding climate responsive strategies in cities along with fostering overall urban, regional and global sustainability.

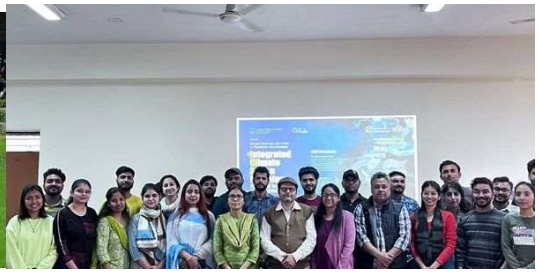
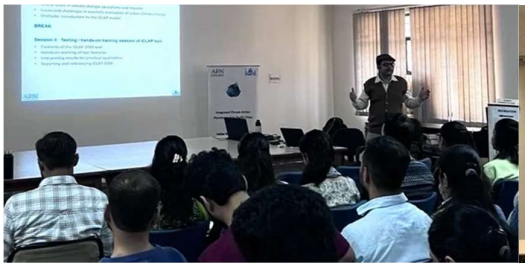
Joint/Hybrid Training Workshop by ISARD New Delhi and Prince Songkla University, Thailand; January 2024

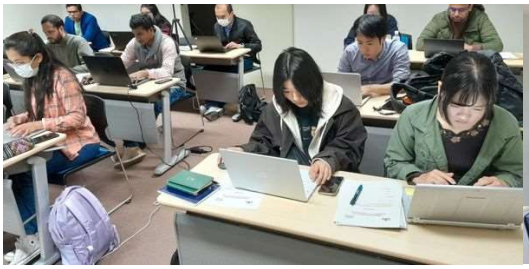
Day I: Project meeting by team members and interactive session between ICLAP team and the PSU faculty

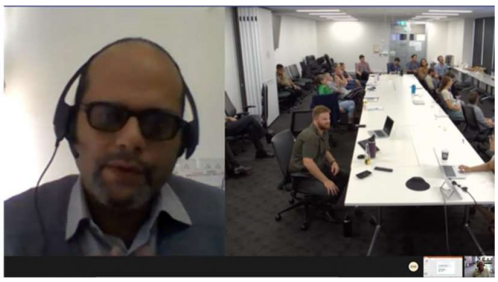
Day 2: Training workshop - lecture and hands-on session

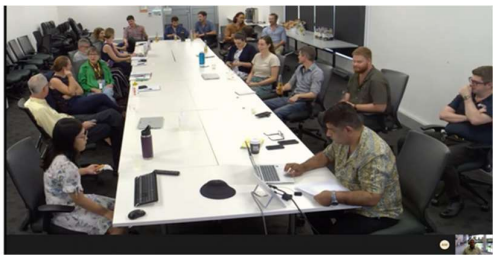
The training intends to introduce the ICLAP 2050 tool to urban experts, research scholars, students, etc. through hands-on testing/ training of the tool, its different features, demonstrating possible applications in practice, along scientific reporting of its results. The training thus not only shares recent project findings with different stakeholders but also incites their opinions to pave a way forward for integrated climate planning in the Asia-Pacific.
The topics covered during the workshop include the following:

- Need of Integrated Climate Action Planning
- Issues in scientific evaluation of urban climate change
- Methods- Introduction to the ICLAP model
- Elements of the ICLAP 2050 tool and its features
- Interpreting results for practical application
- Reporting and referencing ICLAP 2050
- Discussion and feedback



All the above content is available at https://iclap2050.in/dissemination

7. Pull quotes

"Climate change poses a huge challenge to both local governments and societies in functioning effectively. This project is the most fundamental step in demonstrating how Asia-Pacific cities can scientifically deal with this challenge, and it should certainly be extended further in other cities across the globe."

Dr Ajeet Prasad
Secretary, Indian Society for Applied Research & Development, India

"The entire process of conceptualizing, collaborating, data gathering, technically developing, testing and disseminating about the ICLAP 2050 Tool over the last 3 years clearly demonstrates that there is sufficient data on climate change, if integrated and interpreted systematically can guide evidence-based decision making for urban practitioners. The ICLAP 2050 tool offers an open-access platform, powered by bibliometric of 5635 global urban climate solutions applicable for future climate variability and GHG scenarios of 49 Asia-Pacific cities, supported by hundreds of human-hours of testing and series of peer-reviewed paper publications. The most formidable impact of this APN backed project is evident in how the attitude of several participants transforms while attending ICLAP training workshop- from despair of dealing a looming climate challenge in the morning to the sheer confidence in how this tool enables them in cutting across data complexities to arrive at a sound decision for urban intervention by the very same evening. And for those, whose cities are not represented in our sample, I see a glimmer of hope in their eyes when they inquire about applying ICLAP methodology to their cities. I am quite confident that we would continue developing ICLAP for more complex and wider applications."

Dr Mahendra Sethi, Project Leader, (ICLAP) 2050 tool in Asia-Pacific cities
Fellow, Indian Society for Applied Research & Development, India

"ICLAP successfully analyses the current situation and policies of mitigation and adaptation to climate change in typical Chinese cities."

Dr Lijing Liu, Collaborator, (ICLAP) 2050 tool in Asia-Pacific cities
Associate Professor, Center for Energy & Environmental Policy Research/ School of Management and Economics, Beijing Institute of Technology, China

"The ICLAP tool project is a one stop solution for cities and experts grappling with multifarious datasets and ideas in climate change. The tool is based on credible sources of information about GHG projections and spatial manifestation of temperature and precipitation variability for cities under different RCPs up to 2050, yet the key USP of ICLAP remains the strong corpus of hundreds of systematically reviewed global case studies that provide a plethora of information about potential urban climate solutions in a concise manner. The ICLAP tool would be a great learning experience for users worldwide in combating climate change as it has been for team members like us."

Dr Shilpi Mittal, Collaborator, (ICLAP) 2050 tool in Asia-Pacific cities
Research Associate, Indian Society for Applied Research & Development, India

"Thank you for the workshop, it was useful. It would be helpful to practice QGIS analysis of a city to know how to use software for this kind of research"
Emmilce Morillas Agreda, Participant of the Joint/ Hybrid training Workshop by ISARD New Delhi and Hokkaido University, Japan.

"It would be appreciable if more cities could be included."
Akshara C.S. Participant of the International Urban Climate Conference by Indian Society for Applied Research & Development, New Delhi

"The workshop was really informative and relevant in context of climate change and the hands on experience of the ICLAP tool was a great learning."
Vanshika Bajaj; Participant of the Joint/ Hybrid training Workshop by ISARD New Delhi, DIPL and Charles Darwin University, Australia

8. Acknowledgments

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9. Appendices

1. **Book (with complete results of 49 Asia-pacific cities and policy recommendations):**
   ICLAP 2050: Integrated Climate Action Planning in Asia Pacific Cities. In Integrated climate action planning (ICLAP) 2050 tool in Asia-Pacific cities (1.0, pp. 1–224).

2. **Proof of concept paper (peer-reviewed journal paper in *Atmosphere*):**
   Integrated Climate Action Planning (ICLAP) in Asia-Pacific Cities: Analytical Modelling for Collaborative Decision Making. *Atmosphere*, *13(2),* 247.

3. **Methods paper (peer-reviewed journal paper in *Computational Urban Science*):**
   Developing a smart tool for integrated climate action planning (ICLAP 2050) in Asia-Pacific Cities**.** *Computational Urban Science 2*, 45.

4. **Global application (peer-reviewed journal paper in *PLOS Climate*):**
   Leaders or laggards in climate action? Assessing GHG trends and mitigation targets of global megacities. *PLOSClim2(1):* e0000113.

5. **Policy article (peer-reviewed article in East Asia Forum and APN Perspective)**
   It's sink or swim for Asia Pacific's big cities in the war on climate change. East Asia Forum, 23 November 2021.

6. **Major dissemination programmes**
   The details of major events/ dissemination programmes are as following:

Serial No.	Event	Date/Place
1	Expert Workshop on ICLAP Data Structure & Analysis	24 March 2021 Virtual mode
2	Stakeholder Workshop on ICLAP 2050 Tool for the Asia-Pacific Cities	10 September 2021 ISARD New Delhi, India + Virtual
3	Results Discussion: International Urban Climate Change Conference	24-25 January 2023 ISARD New Delhi, India + Virtual
4	Joint/ Hybrid Dissemination and Training workshop -1	23-25 May 2023 Hokkaido University, Sapporo, Japan and ISARD New Delhi, India + Virtual
5	Joint/ Hybrid Dissemination and Training workshop -2	23-24 November 2023 DIPL, Charles Darwin University, Darwin, Australia and ISARD New Delhi, India + Virtual
6	Joint/ Hybrid Dissemination and Training workshop -3	22-23 January 2024 Prince of Songkla University, Songkla, Thailand and ISARD New Delhi, India + Virtual

7. **List of participants attending ICLAP conference and training workshops (A-Z)**

S. No.	Name of Participant	Country
1.	A. K. Sengupta	India
2.	Aadil Nawaz	India
3.	Adams Lukman	Japan
4.	Adelle Godfrey	Australia
5.	Akanksha Mishra	India
6.	Akanksha Sahu	India
7.	Akihiro Suzuki	Japan
8.	Akshara CS	India
9.	Akshay Ajith	India
10.	Allison Hooper	Australia
11.	Amit Magotra	Australia
12.	Ananya Lakhina	India
13.	Andrianoelisoa Lalanivina	Japan
14.	Anjali Kushwah	India
15.	Arnav Shukla	India
16.	Arsha Mohan	India
17.	Arunraj. V. R	India
18.	Arushi Pandey	India
19.	Arya Manoj	India
20.	Ben Wollinski	Australia
21.	Bhoomi Wadhwa	India
22.	Bhujyan Md Alamgir Hossen	Japan
23.	Carla Juliana Monny	Japan
24.	Chandak Mahusudan Santosh	India
25.	Chanudom Kaewjinda	Thailand
26.	Chattraphon Noorod	Thailand
27.	Chotima Pornsawang	Thailand
28.	Christopher Tickner	Australia
29.	Damien Scalora	Australia
30.	Daniel Herlihy	Australia
31.	David Burrow	Australia
32.	Dawn Parkes	Australia
33.	Divya Mulchandani	India
34.	Douglas Lesh	Australia

35.	Dr Ajeet Prasad	India
36.	Dr Bidisha Chattopadhyay	India
37.	Dr Hina Zia	India
38.	Dr Jayeeta Sen	India
39.	Dr Meenakshi Dhote	India
40.	Dr Nisar Khan	India
41.	Dr S.D. Tiwari	India
42.	Dr Shovan Saha	India
43.	Dr Subhakanta Mohapatra	India
44.	Dr Sewaram	India
45.	Emmilie Morillas Agveda	Japan
46.	Eponine Richardson	Australia
47.	Fatima Chaudhary	India
48.	Fletcher Willis	Australia
49.	George Maly	Australia
50.	Himanshu	India
51.	Hitesh Supe	Japan
52.	Imran Jamil	India
53.	Ishe Bhakte	India
54.	James Calder	Australia
55.	Jatin Aggarwal	India
56.	Jeewanshu Uttam	India
57.	Jeswin Sunny V.	India
58.	Jishnu A M	India
59.	Joshua Allbeury	Australia
60.	Joshua Larder	Australia
61.	Jwngma Basumatary	India
62.	K.S.Ananya	India
63.	Kavisha Arora	India
64.	Kotchakorn Intapara	Thailand
65.	Leanne Taylor	Australia
66.	Lingyi Kong	Australia
67.	M Rajagopal	India
68.	Mansi Chauhan	India
69.	Matthew Simpson	Australia
70.	Monica Pham	Australia

71.	Morgan Herlihy	Australia
72.	Moushila De	India
73.	Mrs.Namchit Chanhom	Thailand
74.	Mrunal Ramesh Kelkar	India
75.	Mustajab Hasan	India
76.	Nantiya Indhanu	Thailand
77.	Natcharach Poonthong	Thailand
78.	Natsuki Rokui	Japan
79.	Nilendu Dingal	India
80.	Nitesh Dogne	India
81.	Niti Sudwilai	Thailand
82.	Nitin Lakhina	India
83.	Nuttaya Yuangyai	Thailand
84.	Pavitra Raghavendra Kulkarni	India
85.	Peng Liuyi	Japan
86.	Prakrit Noppradit	Thailand
87.	Preetam Mahajan	India
88.	Rajat	India
89.	Richa Rajesh	India
90.	Rishu Gupta	Australia
91.	Salita Thappum	Thailand
92.	Sally Graetz	Australia
93.	Sami Abdullah Khan	India
94.	Satomi Imagawa	Japan
95.	Saud Siddiqui	India
96.	Saurabh Bhatt	India
97.	Seethalakshmi	India
98.	Serene Maria	India
99.	Shreya Ande	India
100.	Shubhi Saxena	India
101.	Sopin Jirakiattikul	Thailand
102.	Stanley A Suab	Japan
103.	Steven Kubasiewicz	Australia
104.	Supawan Prajaklerttwittaya	Thailand
105.	Susannah Penman	Australia
106.	Susmita Mohan	India

107.	Sutinee Sinutok	Thailand
108.	Umar Farooq Rather	India
109.	Unnati Yadav	India
110.	Varinder Kumar	India
111.	Zeeshan Ibrar	India
112.	Zhou Ziqi	Japan