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# REVIEW OF SAHF FORECASTERS' FORUM

Strengthening Regional Forecasting  
Capabilities through Collaboration and  
Innovation



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## EXECUTIVE SUMMARY

Under South Asia Hydromet Forum (SAHF), the Forecasters' Forum (FForum) was established in February 2022 as a platform to facilitate knowledge exchange among NMHSs through weekly meetings focused on enhancing operational forecasting and service delivery. Bringing together weather forecasters from SAHF countries, the FForum sustains an active dialogue, where members share insights on the latest regional forecasts, discuss extreme weather events, and explore emerging technologies and strategies for improved forecasting. The FForum's objectives center around leveraging regional expertise and promoting innovation to refine forecasting capabilities. Through these efforts, the forum works to communicate anticipated weather patterns, including their limitations, evaluate model performance, share new technologies, and enhance the region's overall disaster response.

The Review of SAHF Weekly FForum is conducted annually to ensure that the forum remains impactful and meets the evolving needs of participants. By gathering feedback directly from participants, this survey aims to evaluate the effectiveness of the forum's structure, content, and overall relevance to participants' work. The review will guide potential improvements and enhance the forum's capacity to support regional forecasters effectively. The survey underscores SAHF's commitment to continuous improvement, fostering a culture of proactive climate risk management, and supporting NMHSs in delivering reliable and timely weather information for their communities.

The 2023 review of FForum highlights its valuable role in strengthening forecasting capabilities among South Asian NMHSs. Participants noted that the FForum effectively enhances collaboration, knowledge-sharing, and preparedness for extreme weather events. Key strengths include the forum's focus on emerging tools and technologies, such as AI and machine learning in forecasting, and its emphasis on improving climate risk management. However, some participants recommended adjustments, such as refining session timing and focusing on extreme events, to better fit their operational schedules. Additionally, there is interest in extending FForum content to include more practical training and case studies. *Overall, the forum received strong support as an essential resource for regional capacity building, with participants expressing a high likelihood of incorporating FForum insights into daily operations and planning.*

## I. INTRODUCTION: THE FORECASTERS' FORUM

The SAHF FForum was established under the aegis of SAHF on 17 February 2022. The primary objectives of FForum are multifaceted, aimed at leveraging regional knowledge sharing to improve operational forecasting and service delivery. The FForum brings together the weather forecasters from NHMSs of SAHF countries on a weekly basis to sustain dialogue and share the latest forecasts on extreme weather events in the region, emerging technology and ideas. SAHF builds and facilitates the regional collaboration between the SAHF member countries- Afghanistan, Bangladesh, Bhutan, India, Maldives, Myanmar, Nepal, Pakistan and Sri Lanka.

Thus, the FForum has the following objectives:

1. FForum undertakes a comprehensive review of weather forecasts from the previous week, assessing the performance of models and forecast skills. This retrospective analysis serves as a valuable tool for continuous improvement in forecasting methodologies.
2. The forum serves as a platform for communication and discussion among meteorological experts. It focuses on sharing and discussing weather and climate forecasts for the coming days and weeks, highlighting uncertainties and limitations inherent in these predictions.
3. FForum plays a crucial role in describing impending extreme weather events in the South Asian region. Additionally, it strives to improve mechanisms for the timely sharing of forecast information between National Meteorological and Hydrological Services (NMHSs) to facilitate coordinated responses.
4. The forum serves as a hub for the exchange of innovative ideas and the latest technology to enhance weather and climate forecasting. This ensures that participants stay abreast of cutting-edge developments in the field.

### CURRENT FORMAT

- Day: Every Thursday
- Time: 4:30 PM-5:30 PM Bangkok Time (UTC+7 hrs.)

Program	Lead	Time
Realized weather of the past week, significant synoptic phenomena, and weather outlooks for upcoming week	RIMES Expert	20 min

Significant weather/climate events during next 2-4 weeks (Extended Outlook)	NCMRWF Expert	10 min
Significant weather report by countries	Operational Forecasters from NMHSs	15 min
Ocean State Forecasts (OSF)	INCOIS Expert	10 min
Open discussion	All Participants	10 min

## **FINDINGS FROM ANNUAL REVIEW 2022**

The Annual Review of FForum for the year 2022 highlighted several noteworthy achievements:

- FForum successfully brought together forecasters from NMHSs every week to discuss the synoptic weather situation over the region, with a particular emphasis on extreme weather events.
- The weekly discussions led by regional experts progressively introduced new operational forecast products from leading global and regional centres, enhancing the forum's value and relevance.
- Participants widely expressed their support through regular and active engagement. The benefits gained from these interactions were further emphasized through specific surveys, indicating the tangible impact of FForum in advancing meteorological capabilities in the SA region.

## **II. THE 2023 FFORUM EVALUATION**

The FForum plays a critical role in building the capacity of South Asian NMHSs and fostering regional collaboration to improve forecasting accuracy and disaster preparedness. However, as the Forum evolves, it is essential to evaluate its processes systematically to ensure that it continues to meet the needs of the participants and remains aligned with its overarching goals.

A process evaluation is necessary to assess the design, implementation, and delivery of the FForum. This evaluation will help identify operational strengths, uncover areas for improvement, and provide insights into the effectiveness of the

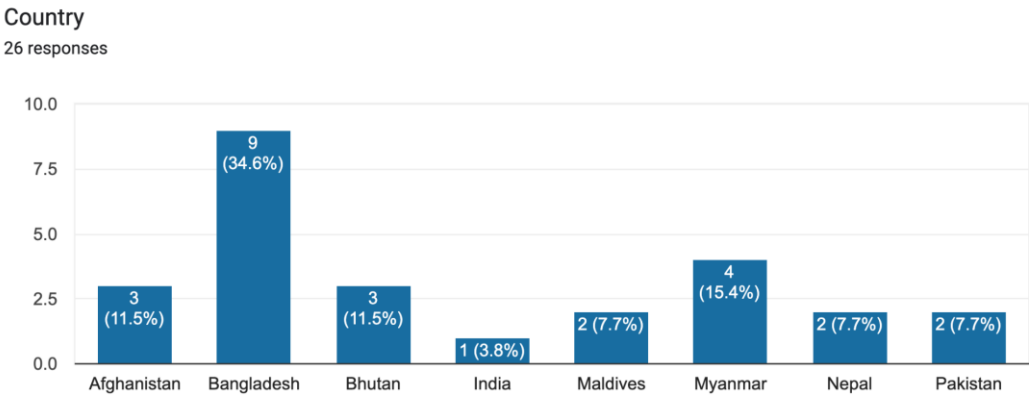
forum's activities in fostering knowledge exchange, skill enhancement, and collaboration. It will also ensure that the forum remains relevant, inclusive, and sustainable, particularly as climate risks and forecasting challenges continue to grow in complexity. Specifically, the evaluation aims to: a) evaluate relevance and adaptability, b) assess implementation efficiency, c) measure stakeholder engagement, and d) identify gaps, lessons learned, and recommendations for improvement.

A survey (refer to Annex I) was administered in October-November 2024 to NMHS representatives from South Asia to evaluate the implementation of the SAHF Forecasters' Forum covering the period March 2023-October 2024 \_\_\_\_\_. It focuses on the design, delivery, and operational aspects of the FForum, with emphasis on its relevance, whether the program's design and implementation address the actual needs and priorities of stakeholders and the context in which it operates; coherence or the consistency of the FForum's implementation with existing policies, frameworks, or other initiatives; how well the implementation process delivers the intended outcomes (effectiveness); and whether the implementation process has laid the groundwork for sustained benefits.

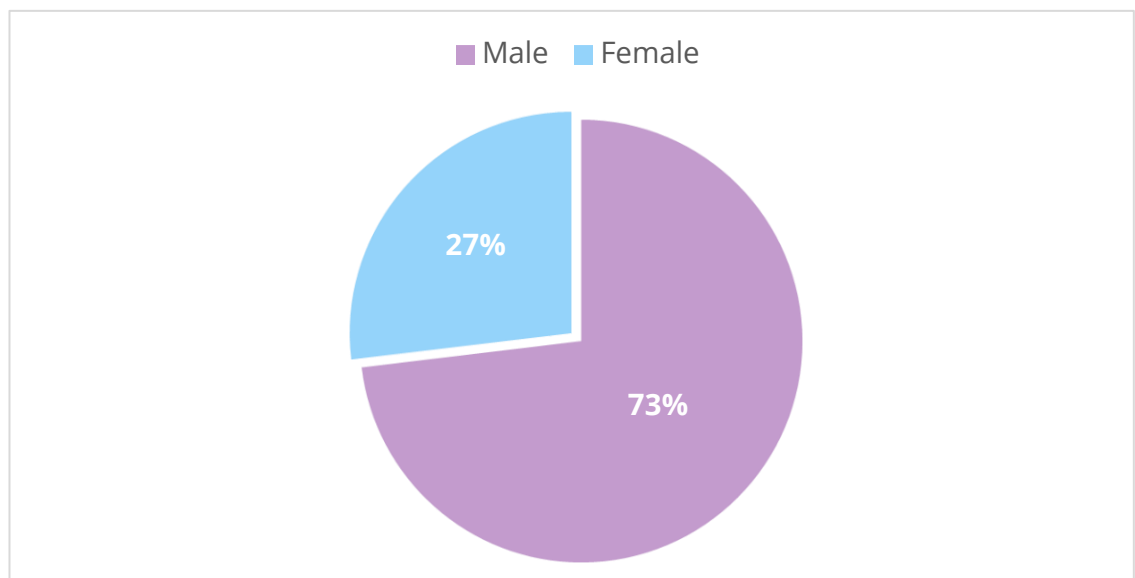
The survey also solicited insights on lessons learned and recommendations for improving implementation.

**A. SURVEY RESPONDENTS**

There was a total of 26 responses through the Google Form, consisting of respondents from Bangladesh (35%), Myanmar (15%), Afghanistan (12%), Bhutan (12%), Maldives (8%), Nepal (8%), Pakistan (8%), and India (4%). This represents the regular active participants of the FForum demonstrating a strong and diverse regional participation.



The 2023 review of the SAHF FForum demonstrated broad engagement among mid- to senior-level professionals, including senior forecasters, meteorologists, deputy directors, and general managers. This participation profile suggests the forum’s relevance to experts in leadership roles, who are well-placed to influence institutional practices and advocate for enhancements in weather forecasting and climate risk management. Respondents represented SAHF member countries underscoring strong buy-in across diverse climates and operational contexts, fostering rich exchanges and potential for collaborative approaches to shared challenges in the region. With age representation spanning early-career professionals to senior experts (ages 25 to 60), the forum engaged participants at various stages of professional development. While the review showed most male respondents, highlighting opportunities to further enhance gender diversity, the age and role diversity reflects the forum’s inclusive approach to skill-sharing and knowledge-building across career levels.



*Figure 1. Gender distribution in the annual review of FForum*

## **B. KEY FINDINGS**

The survey questions were divided according to themes in terms of relevance, coherence, effectiveness, impact, and sustainability. The following are the highlights of the key findings:

## Relevance

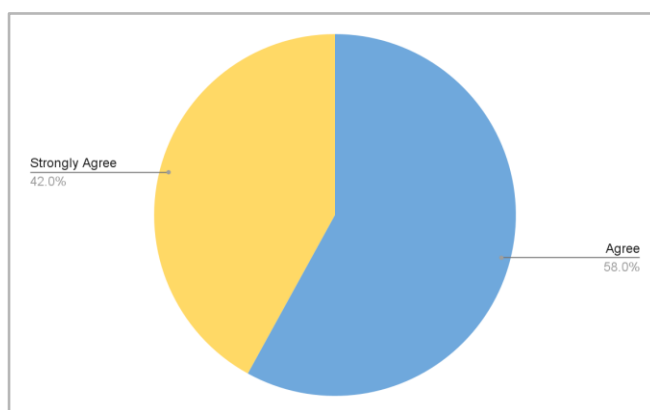


Figure 2. Relevance of the FForum contents vis-a-vis operational requirements

- All of the respondents (see Figure 2) agreed that the FForum content met operational requirements for predicting and monitoring extreme weather events.
- 96% of participants acknowledged the relevance of the tools, data, and methods shared, citing their adaptability to organizational and regional realities. Specific tools like IMD models, NWP models, and synoptic features were particularly highlighted.

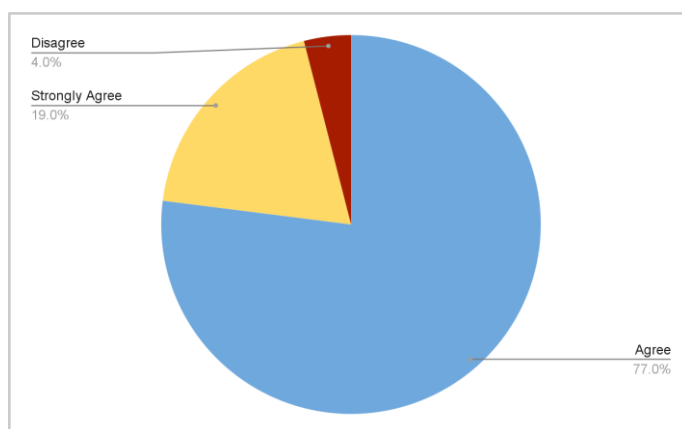


Figure 3. Relevance of tools, data, or methods shared during the FForum in addressing specific challenges in respective countries

- The forum's inclusive and participatory approach received strong support (96% agreement, see Figure 3), but a small fraction expressed a neutral stance.
- While 80% of respondents agreed that the forum content addresses emerging climate risks such as intensified monsoons and cyclones, 20% were neutral or in disagreement, indicating room for improvement in localized content.

## Coherence

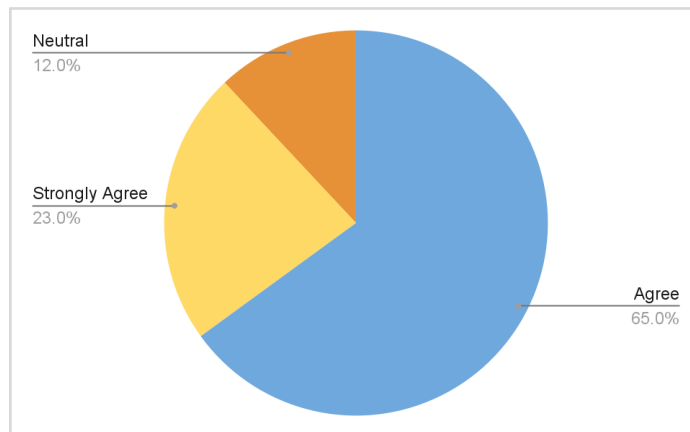


Figure 4. FForum supports the operational mandates of NMHSs in terms of reliable and timely forecasts

- 88% agreed (see Figure 4) that the FForum enhances NMHSs' ability to provide reliable forecasts and early warnings, aligning with institutional mandates.

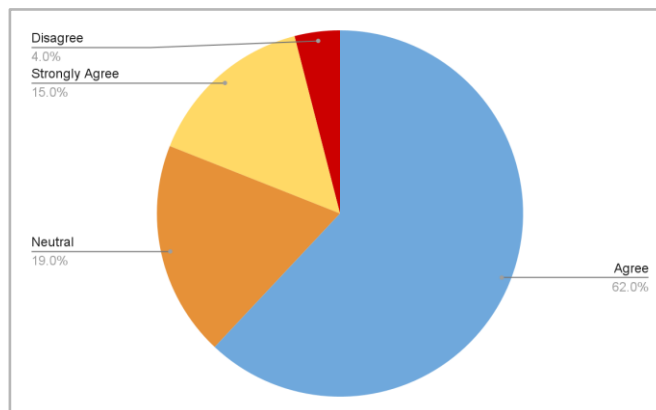
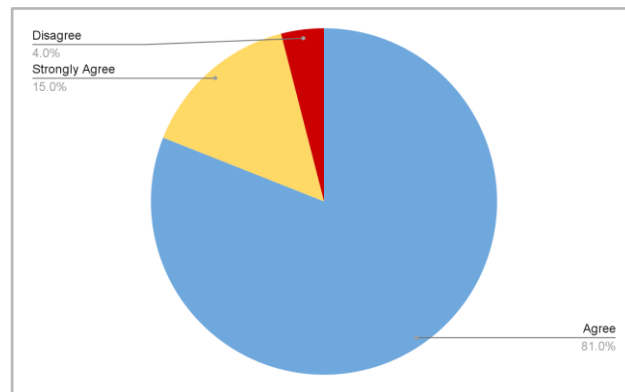


Figure 5. FForum addresses gaps in the application of climate information across operational, tactical, and strategic plans and decisions

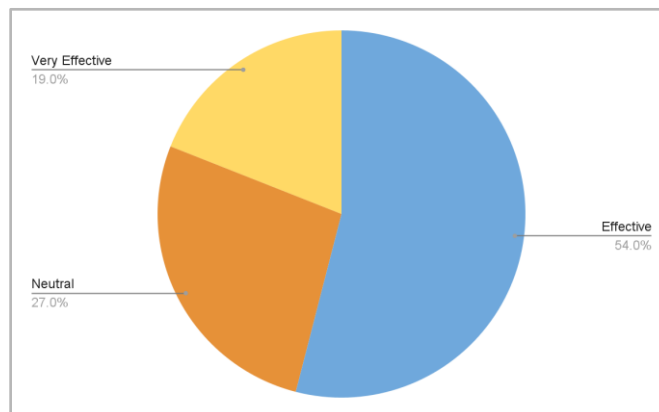
- 85% recognized its role in facilitating improved forecasting and disaster risk reduction, while 77% agreed that it complements existing policies and regional initiatives.
- A notable insight was that the forum significantly improved prediction accuracy and lead time for extreme weather events, fostering timely early warnings.

## Effectiveness



*Figure 6. Effectiveness of the Fforum Structure*

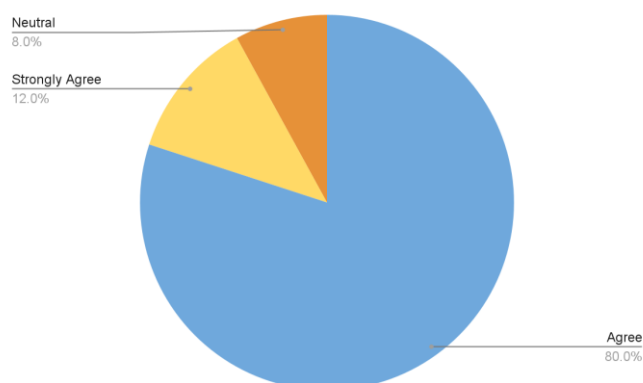
- Almost all respondents agreed that the Fforum structure (frequency, timing, facilitation) was effective in delivering content.
- 85% found the forum effective in fostering discussions on new tools and technologies, although some suggested combining overlapping forums to reduce scheduling conflicts.



*Figure 7. Effectiveness of the Fforum in strengthening knowledge of proactive and anticipatory climate risk management*

- 73% of participants noted improved knowledge of proactive climate risk management, though feedback highlighted the need for more practical applications and skill-based sessions.

## Impact



*Figure 8. The FForum has significantly improved the availability, reliability, and timely dissemination of forecasts and early warnings of the NMHSs*

- 92% agreed that the forum significantly improved the availability, reliability, and dissemination of forecasts, contributing to enhanced institutional collaboration.
- 96% expressed a likelihood of incorporating forum outcomes into their projects and workflows, with specific applications in agriculture, disaster preparedness, and regional weather forecasts.
- Respondents foresee long-term departmental improvements, including better forecast accuracy, regional extreme weather indices, and climate-informed project designs.

## Sustainability

- 92% plan to share FForum learnings with colleagues, with many institutions already integrating forum practices into standard procedures.
- 96% believe the forum fosters continuous learning and inter-agency collaboration.

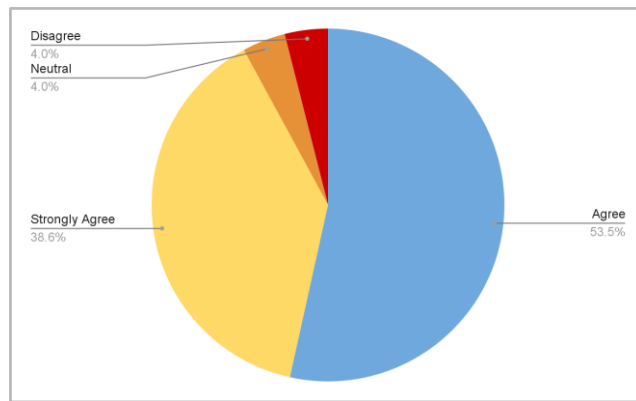


Figure 9. Sustaining the FForum as a regular part of the NMHSs' capacity building initiatives

- Most respondents recommend institutionalizing the FForum as part of capacity-building initiatives.

### C. DISCUSSION

The survey findings indicate that the FForum has been highly effective in meeting its objectives of improving operational forecasting and enhancing regional preparedness for extreme weather events. Participants recognized the forum's relevance, coherence, and impact on institutional practices, as well as its role in fostering collaboration across NMHSs. However, the responses also highlighted areas where adjustments and enhancements could maximize its long-term value and broaden its applicability.

#### Relevance to Operational Needs

The overwhelmingly positive feedback on the forum's alignment with operational requirements underscores its success in addressing critical challenges faced by forecasters in the region. Tools like IMD models, NWP methods, and synoptic features were noted as directly applicable to daily and weekly forecasting, demonstrating the forum's practical utility. Furthermore, the forum's adaptability to emerging climate risks, such as more frequent cyclones and intensified monsoons, was appreciated by most respondents. However, feedback from those who were neutral or disagreed suggests a need for more localized content, particularly for equatorial regions like the Maldives, where unique forecasting challenges exist. Addressing these gaps can enhance the forum's inclusivity and ensure that all participants find its content equally relevant and beneficial.

## **Inclusivity and Participatory Approach**

The forum's participatory nature was a key strength, enabling operational forecasters to engage meaningfully and feel a sense of ownership over the discussions. This approach was cited as instrumental in tailoring content to local needs and ensuring adaptability to different operational realities. However, the minority of respondents who expressed neutrality or indecision suggest there is room to strengthen this aspect further. For instance, including more participant-driven discussions, region-specific case studies, and practical applications could increase engagement and ensure all participants feel their needs and contexts are addressed.

## **Effectiveness in Knowledge Sharing and Skill Development**

The forum's structure—covering aspects like session frequency, timing, and facilitation—was rated positively by most participants. Many respondents highlighted its role in facilitating discussions on advanced tools and technologies, enhancing their ability to deliver timely and accurate weather forecasts. However, feedback suggests that the effectiveness of the forum could be amplified by incorporating more hands-on learning opportunities. Practical exercises, simulation-based learning, and direct application of tools were recurrent themes in participant comments. These adjustments would allow participants to not only understand but also apply the methodologies discussed, ultimately increasing the forum's practical impact.

## **Operational and Institutional Impact**

The forum has made notable contributions to institutional practices, with most participants reporting the adoption of its tools, methods, and approaches within their organizations. Insights from qualitative responses reveal specific areas where these practices are making a difference, including enhanced forecasting accuracy, proactive disaster risk management, and improved confidence in delivering early warnings. Additionally, participants emphasized the forum's value in improving cross-departmental and cross-agency collaboration as evident in the following statements from the respondents:

*"FForum is effective in planning anticipatory actions well before the occurrence of extreme weather events."*

*"In FForum, our forecasters get more knowledge about the regional weather systems. The information we gained in FForum is crucial for improving forecasting skills. We will plan internal discussions after the usual FForum, so that all the forecasters within MMS know what has been discussed on the day (Thursday)."*

However, to ensure sustained institutional impact, structured follow-up mechanisms could be introduced. These could include periodic assessments of how FForum outcomes are being integrated into workflows and tailored support for addressing implementation challenges.

## **Sustainability and Collaboration**

The forum's contribution to fostering a culture of continuous learning within participating organizations is a significant achievement. Most respondents indicated their intent to share forum learnings with colleagues and integrate recommended practices into standard procedures. This demonstrates the forum's potential for long-term sustainability as a capacity-building initiative.

Moreover, the strong emphasis on collaboration among participants suggests an opportunity to formalize these networks. For instance, the forum could expand its scope to include collaborative forecasting projects or joint efforts to address high-risk periods and regions. This would reinforce the idea of shared responsibility and strengthen regional resilience, as one respondent remarked:

*"Sharing among the forecasters and weather/climate related personnel eventually increases the capacity of the institution as a whole. Other stack holders/ departments may also make use of all activities being done by FForum."*

The cross-agency interactions have laid the groundwork for collaborative forecasting initiatives. FForum sessions could expand to include collaborative projects, where agencies jointly tackle forecasting for high-risk periods or regions, reinforcing the idea of shared responsibility in weather prediction across South Asia.

## **D. FEEDBACK THEMES**

### **Positive Aspects**

- Respondents valued the chance to share knowledge on forecasting tools and regional weather patterns. The forum was recognized as a platform for staying updated on advanced tools and international best practices in forecasting.
- Many comments emphasised the expertise of forum experts and facilitators. Participants felt that access to experts added significant value to the sessions, underscoring the need to maintain this quality.

## Addressing Emerging Challenges

While the FForum has successfully addressed many forecasting needs, participants highlighted several emerging challenges that require greater focus, which were:

- lack of content on seasonal forecasting and extreme event prediction for specific disaster-prone regions,
- a need for more discussions on the synoptic understanding of severe weather systems, particularly in relation to unique regional weather phenomena,
- logistical issues such as time zone differences, overlapping forums, and session schedule, and
- user interface for the SAHF Knowledge Hub

Addressing these gaps through targeted sessions or dedicated working groups would enhance the forum's ability to meet the diverse needs of its participants and further enhance the participants' experience.



## **Opportunities for Future Growth**

The survey results indicate several opportunities to enhance the FForum's impact and relevance. Participants expressed a strong interest in skill-based training, particularly in emerging areas like AI and machine learning for weather forecasting. By introducing structured training tracks and advanced skill-building sessions, the forum can position itself as a leader in capacity development for NMHSs. Furthermore, the forum's success in fostering regional cooperation could be leveraged to establish long-term partnerships or formal agreements for collaborative forecasting and disaster management initiatives.

### **III. RECOMMENDATIONS AND WAYS FORWARD**

To ensure the Forecasters' Forum (FForum) continues to effectively support National Meteorological and Hydrological Services (NMHSs) and addresses emerging challenges in weather forecasting and disaster risk management, the following are proposed:

#### **Enhance Local Relevance**

- **Incorporate Region-Specific Content:** Expand the forum's agenda to include localized case studies and discussions, particularly for underserved regions such as equatorial zones. This will ensure that the content addresses the unique challenges and forecasting needs of all participants.
- **Address Emerging Risks:** Tailor discussions to focus on new and intensifying climate risks, such as more frequent and severe monsoons, cyclones, and other extreme weather events. This will enable NMHSs to proactively prepare for and respond to these challenges.

#### **Expand Practical Learning Opportunities**

- **Simulation Exercises and Workshops:** Introduce practical, hands-on components such as simulation exercises for extreme weather forecasting and disaster response scenarios. These sessions will allow participants to apply theoretical knowledge in real-world contexts.

- Skill-Building Tracks: Offer dedicated training tracks on advanced forecasting tools, technologies, and methodologies, including AI/ML applications in forecasting. This will enhance the technical proficiency of forecasters and equip them with cutting-edge skills.

### **Optimize the Forum Structure**

- Adjust Session Timings: Redesign the schedule to accommodate participants from diverse time zones, ensuring equitable access for all NMHSs. Alternate session timings or rotate session slots to minimize conflicts with operational duties.
- Streamline Frequency: Balance the frequency of sessions to avoid overlap with other commitments, allowing participants to engage without compromising their daily forecasting responsibilities.

### **Foster Collaboration and Regional Synergies**

- Collaborative Forecasting Projects: Initiate joint forecasting projects involving multiple NMHSs to address high-risk periods or regions. Such initiatives can foster regional cooperation and improve collective preparedness for extreme events.
- Strengthen Post-Forum Follow-Ups: Implement structured follow-ups after each session to track participants' progress in applying forum knowledge and tools. Regular feedback mechanisms will ensure sustained support and guide future improvements.

### **Institutionalize the FForum**

- Integration into Capacity-Building Programs: Establish the FForum as a regular component of NMHSs' capacity-building initiatives. This will expand its reach to a broader audience, including new forecasters and decision-makers.
- Alignment with Regional Initiatives: Strengthen the forum's alignment with existing regional frameworks such as SAARC, BIMSTEC, and the Sendai Framework for Disaster Risk Reduction. By embedding the FForum into these strategic platforms, it can play a more central role in regional climate resilience efforts.

#### **IV. CONCLUSION**

The 2023 review of the FForum highlights its significant role in strengthening forecasting capabilities and promoting knowledge-sharing among South Asian NMHSs. The forum has proven effective in addressing operational needs, particularly in forecasting extreme weather events, and in fostering a collaborative environment for regional professionals. Participants widely recognized the forum's value in enhancing preparedness, supporting continuous learning, and facilitating cross-border cooperation.

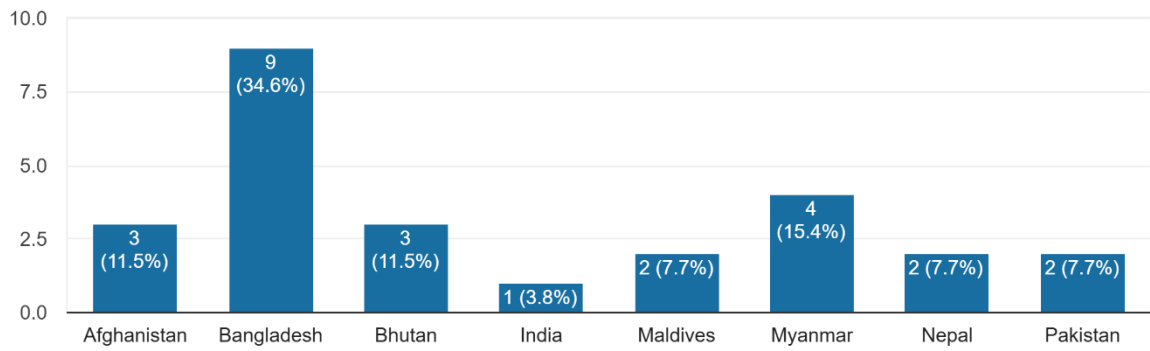
The forum's content was highly regarded for its alignment with operational requirements, particularly in relation to extreme weather forecasting. Participants indicated that the tools and strategies shared through the forum have been integrated into their institutions' practices, with a focus on improving forecast accuracy and response capabilities. However, feedback suggested that further improvements could be made by incorporating more practical, hands-on components such as case studies and simulation exercises, tailored to specific regional challenges. The forum also demonstrated strong potential for fostering inter-agency collaboration. Participants valued the networking opportunities and the exchange of methodologies and challenges faced by different institutions. This collaborative environment has created a foundation for potential joint initiatives, which could further strengthen the region's forecasting capacity.

In conclusion, the 2023 review of FForum indicates that the SAHF FForum has established itself as a vital platform for improving weather forecasting and disaster risk management in South Asia. Its emphasis on relevance, inclusivity, and collaboration being instrumental in achieving these outcomes. However, the forum's effectiveness and sustainability can be further enhanced by addressing the identified areas for improvement. By incorporating more localized content, practical learning opportunities, and collaborative projects, the FForum can solidify its role as a cornerstone of regional capacity development and resilience against extreme weather events.



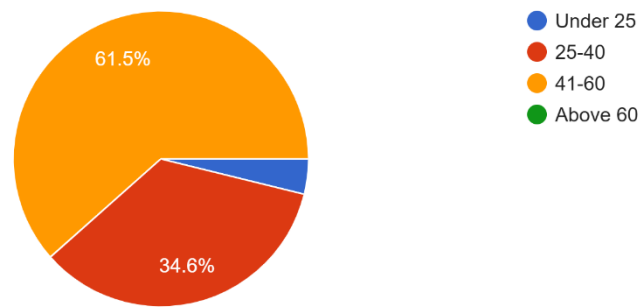
### Country

26 responses



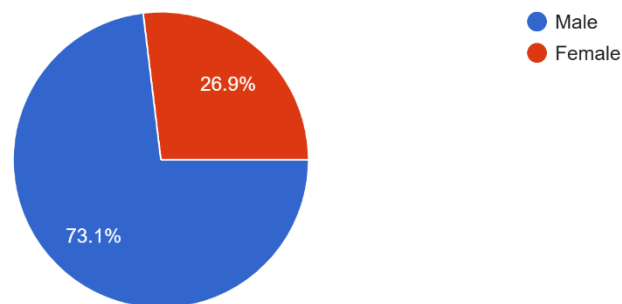
### Age Group:

26 responses



### Gender:

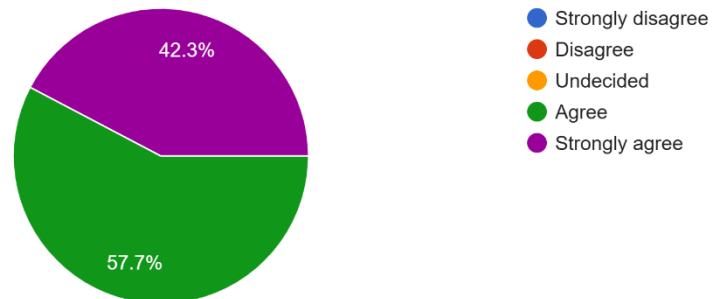
26 responses



## Relevance

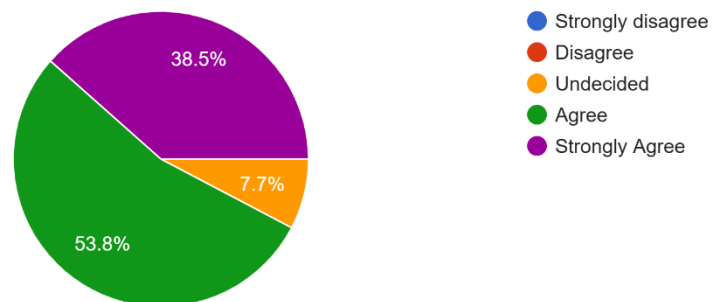
The contents of the FForum met the operational requirements of predicting and monitoring extreme events.

26 responses



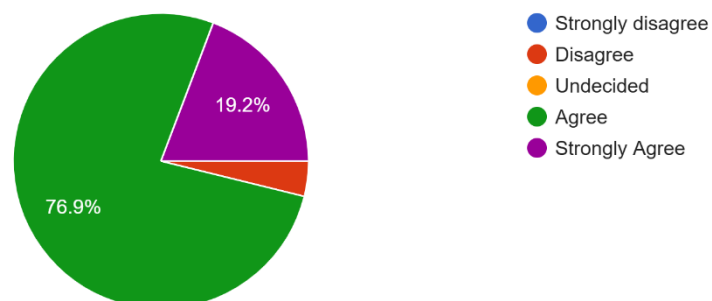
The FForum followed an inclusive and participatory approach to engage operational forecasters to ensure relevance to local needs and ownership.

26 responses



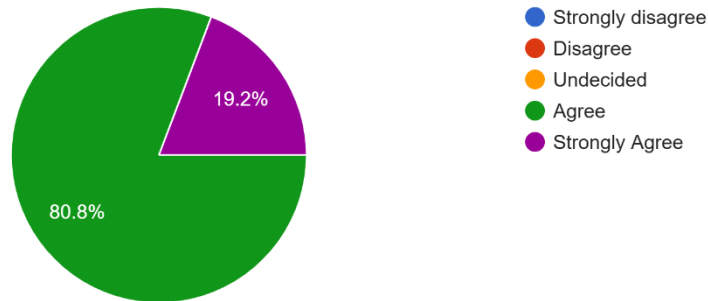
The tools, data, or methods shared during the FForum were relevant to addressing the specific challenges faced by your country or region?

26 responses



The forecasting tools, techniques, and resources shared during the FForum were adaptable to the operational realities of your organization and your country?

26 responses

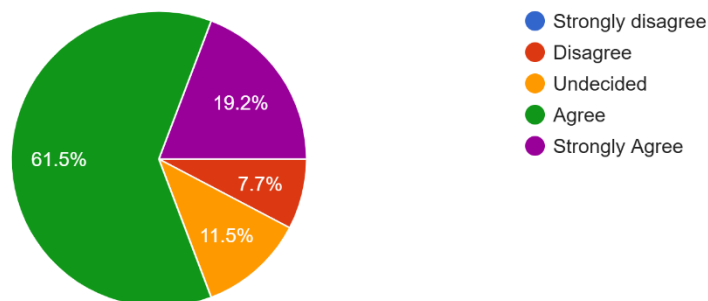


Please provide example/s if possible.

- IMD models
- The latest updates of Enso, IOD indices and synoptic features in broader prospect help in shaping up local region forecast.
- Severe weather update weeks in advance until the models realize it
- The products discuss in the FForum are the products that is very important for our region for daily and eekly forecasting.
- The NWP models and methods used in the FForum were same as used in PMD
- weekly forecast and cyclone Mocha

The FForum content adapts to emerging climate risks or trends in the region such as more intense monsoons or increasing frequency of cyclones

26 responses



Comments

- The F Forum helps lot while doing daily working hours and also to forecast for coming weeks.

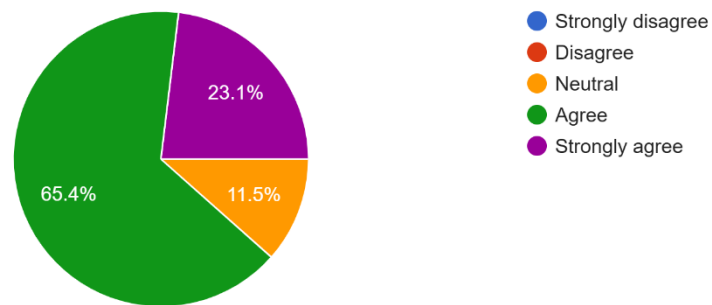
- Tropical titbits, ECMWF and IMD high resolution NWP products are reliable resources.
- Need more focus on equatorial zones such as Maldives and the synoptic understanding of the weather systems in a severe weather event.
- Information from the weekly SAHF are very useful for the operational forecasting.
- The content and methods shared during the FForum is good and informative. We also used this information in our operational forecasting.
- The Forum activities are very helpful for the operational forecasters as well as researchers.
- We need to discuss more in this regard. In almost every country in the region facing more extreme events recently. If more intense Monsoon or more cyclones predicted, we could discuss more in FForum and we can propose a new forum in a specific date within the week. This will help al NMHS to prepare for the season
- Operational forecasters as well as climate scientist need to work together to address the issues.
- The forecasting tools, techniques, and resources shared during the FForum were adaptable to the operational realities in my organization and it is necessary to engage more person of each country is better.
- FForum is very useful for operational forecasters
- The Forum has helped us to check the systems during extreme weather events
- Heavy rainfall predictions
- Frequency of FForum needs to increase during extreme events
- This is an excellent platform for forecasters.
- The forum discussion is important in monitoring and forecasting particularly the extreme events, and analysis by Dr. Ramesh helps in understanding the synoptic situations.
- This weekly meeting helps me as a forecaster to understand the forecast of the next week.
- I can discuss about current synoptic condition and different model prediction through this forum
- That Was good
- FForum has been helpful for the capacity building of the forecasters and knowledge sharing. It also helped the forecaster to mutually learn from each other and to adopt the best practices in the member countries.
- evaluates the operational forecasters, and their ability to improve and challenges in local
- i agree for all program which is make for the

- very helpful
- The SAHF FForum is an important platform for discussing severe weather related forecasts and challenges in the South Asian region. It is also helping NMHSs in early warnings and regional cooperation so it should continue in future.

## Coherence

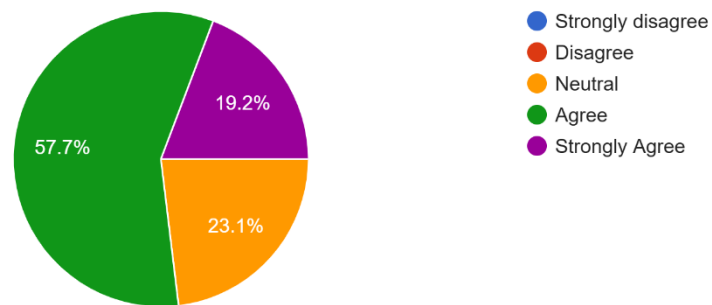
The FForum supports the operational mandates of NMHSs by enhancing their ability to provide reliable and timely forecasts and early warnings for impending weather events.

26 responses



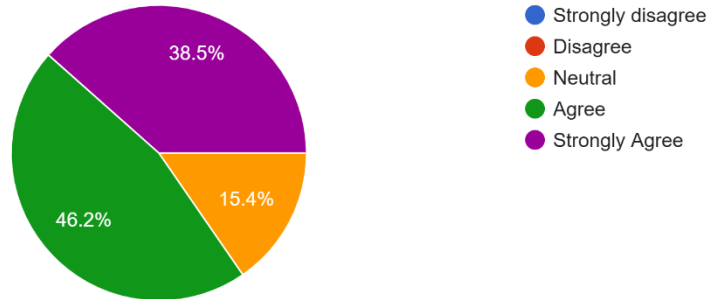
The FForum has the potential to align with NMHSs & priorities in providing impact-based early warnings and to complement their policy frameworks and guidelines on disaster risk reduction.

26 responses



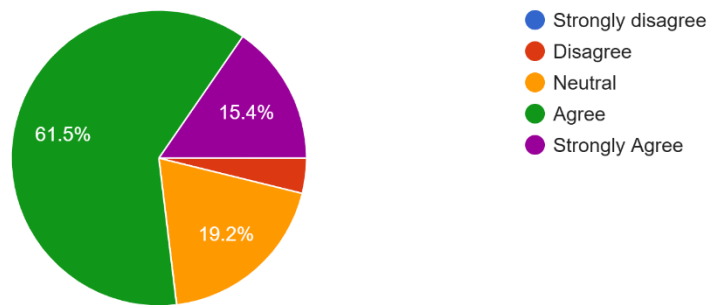
The FForum provides NMHSs with enhanced information, facilitating the delivery of improved forecasts and warning services. This supports proac...trengthens strategies for disaster risk reduction.

26 responses



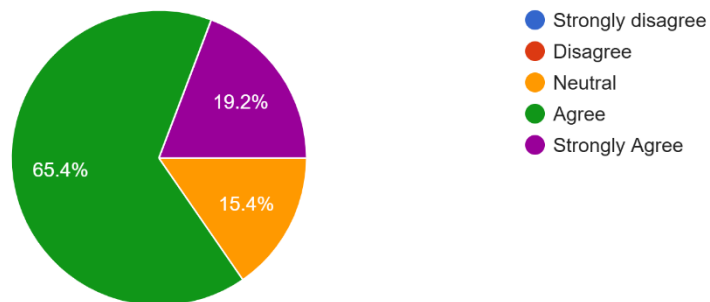
The FForum addresses gaps in the application of climate information across operational, tactical, and strategic plans and decisions.

26 responses



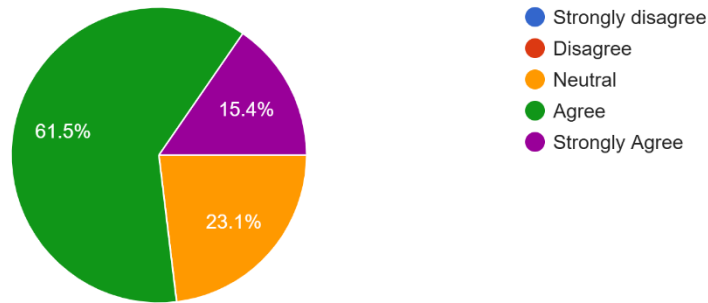
The FForum complements existing national and regional disaster risk reduction policies and strategies (eg. SAARC, BIMSTEC, Sendai Framework for DRR)?

26 responses



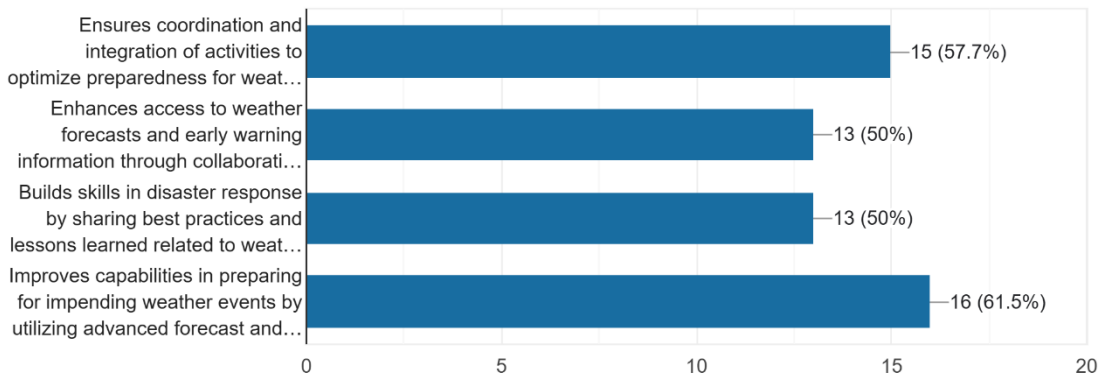
The FForum aligns with or complement other regional initiatives related to climate forecasting and disaster risk management that you are involved in

26 responses



Please specify how the FForum contributes to other programs, projects, and activities in relation to the use of weather forecasts and early warnings:

26 responses

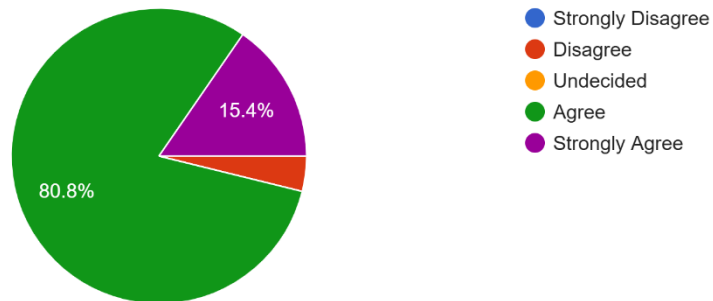


### Comments

- FFORUM enhances the accuracy and lead time for predicting impending extreme weather events thus enabling proactive measures. Consequently, timely dissemination of warning to the vulnerable area.
- It is improving my forecasting accuracy.
- We believe that we will be able to share better information for weather forecasting.

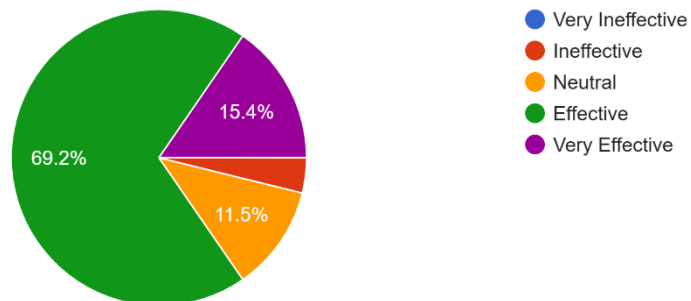
The structure of the FForum (e.g. frequency of the sessions, time allotment, facilitation) is effective in delivering relevant content and fostering engagement?

26 responses



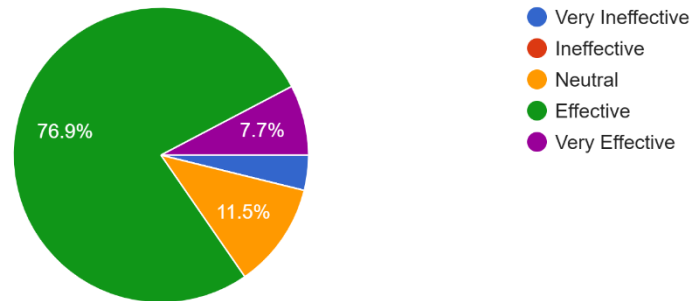
How effective has the FForum been in enhancing your ability to deliver accurate and timely weather forecasts?

26 responses



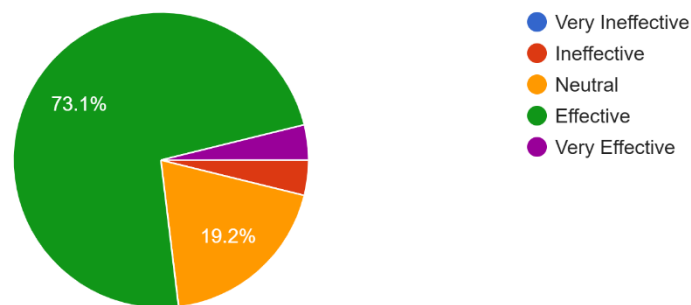
How effectively does the FForum facilitate the sharing and discussion of emerging tools and technologies in weather forecasting?

26 responses



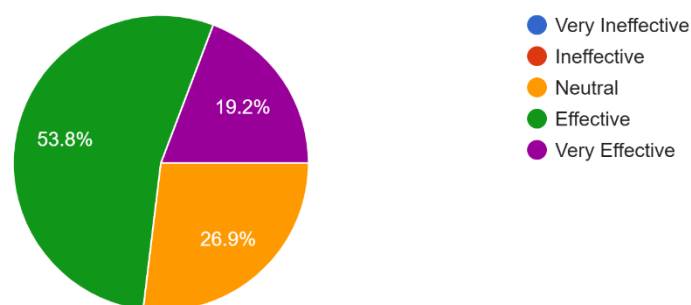
How effectively does the FForum facilitate the sharing and discussion of emerging tools and technologies in weather forecasting?

26 responses



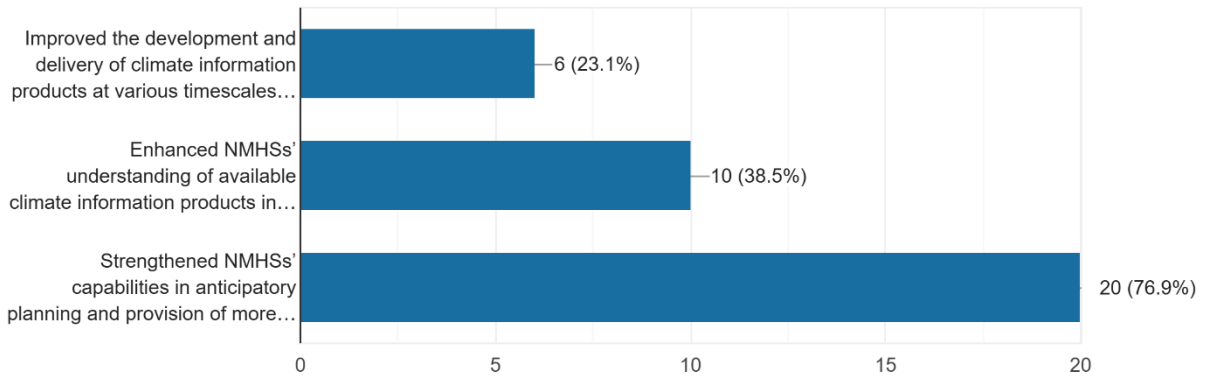
How effectively has the FForum strengthened your knowledge of proactive/ anticipatory climate risk management?

26 responses



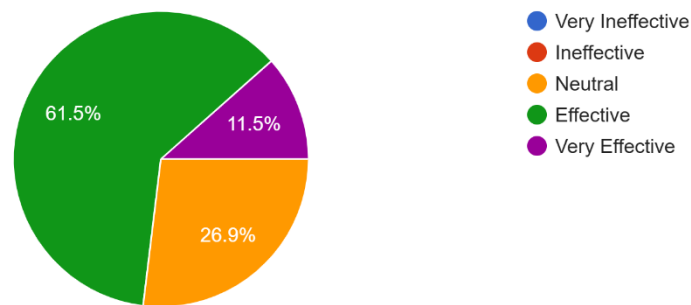
Please identify how the FForum has been effective in addressing gaps in the production and provision of climate information.

26 responses



How effectively has the FForum promoted the adoption of best practices and innovative approaches on proactive/anticipatory climate risk management?

26 responses



### Comments

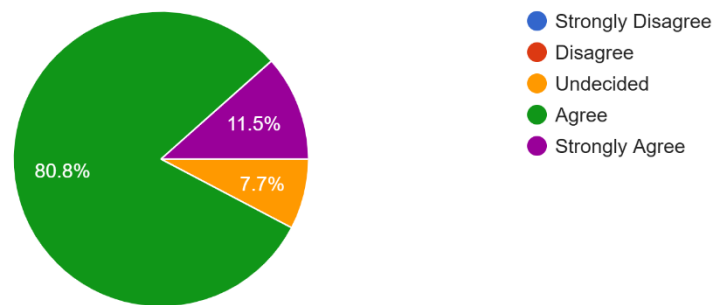
- FFORUM is effective in planning anticipatory actions well before the occurrence of extreme weather events.
- On the structure of the FForum, it has now become difficult for us to attend the forum weekly. It has become difficult to adjust time for the forum since its falls during our forecast preparation time. Before the FForum, we also attend the BCWC forum, which is the same products shown in FForum, therefore, we would like to suggest if we can have only one Forum (BCWC and FForum together). Further, since we are limited in human resources, we would like to request that we can attend the forum only during extreme weather events. We are not able to adjust time ever weekly. And now the forum takes almost 1.5 hrs.

- We would like to provide seminars and trainings to learn more about AI and ML products for weather forecasting.

## Impact

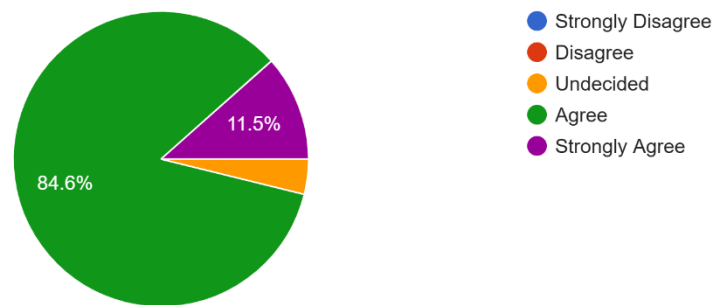
The FForum has significantly improved the availability, reliability, and timely dissemination of forecasts and early warnings by enhancing NMHSs'...tion, and streamlining communication processes.

26 responses



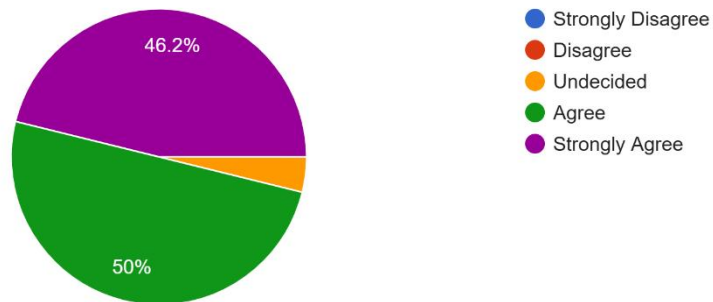
You are likely to incorporate the knowledge and skills learned from the FForum to your current or future projects related to climate-informed designs, standards, policies and planning.

26 responses



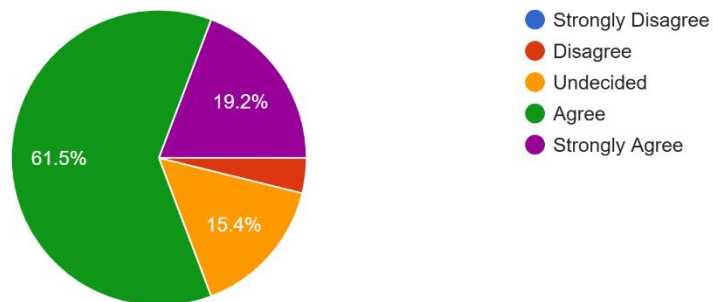
You are likely to use the FForum outcomes in your work.

26 responses



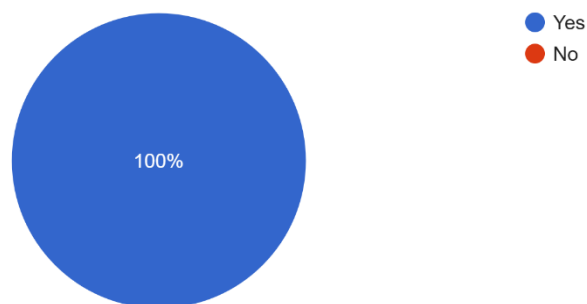
FForum changed your mindset/perspective on how you would do your work differently.

26 responses



Were you able to apply weather/climate information products/knowledge/skills gained from the FForums in your plans and decisions?

26 responses



How did you use them and/or what measure/s have you taken? How did it impact your activities?

- Sometimes it is good and sometime is bad
- It was used in various sectors especially in agriculture, in planting and harvesting crops, in navigation considering the sea conditions, and definitely in water management. Timely dissemination of weather warnings/advisories related to vulnerable areas.

- i don't get the mean point
- Preparedness for server weather events
- Considering information and news from weekly SAHF when issue the early warning.
- We used them in preparing the forecast. It will increase our confidence level.
- THROUGH knowledge sharing and doing incorporations.
- It greatly helps our forecasters to prepare for daily and weekly forecasts.
- To improve daily forecast.
- In our future projects related to climate-informed designs.
- Information is used for preparation of outlook and weather forecasts
- We use the Forums information in daily weather forecasting and extreme weather events
- Directly use for prepare severe national weather forecast .
- The FForum make better understanding of forecast products and enhancing weather forecasting in BMD
- It has a great impact in our activities.
- As a R&D center, the discussions on various events help understand the extreme events and evaluate the NCMRWF model for such events.
- As a forecaster I am using the knowledge gathered from FForum's in my daily weather forecaster.
- I take decision for weather forecast using discussion of this forum.
- I never get any training of it so ....
- Overall, adopting the project management software significantly enhanced our productivity and team cohesion, allowing us to deliver higher-quality work.
- It had positively impacted the activities by enhancing the knowledge and skill of weather forecasting
- By using FForum's Forecast in daily forecast, weekly forecast and ten days forecast, it is very beneficial to get effective forecasts.
- we learn alate of update related to forecast
- FForum's is helpful and supports our forecasting knowledge.
- Improves the accuracy of forecast of severe weather

If no, why not? How did it impact your activities?

- Impact is not that much.
- It did impact.
- It has improved our forecasting skills.
- Higher authority knows it

What long-term changes do you foresee in your department's operations due to the FForum?

- Changes is not too much la
- Ten days forecast and monthly
- Impact based forecast for every local region. Disaster risk management and reduction. Climate Data Analytics. Calculation of regional extreme weather events indices.
- 1 month
- Inclusion of a section level forum to discuss on input /output of FForum
- improve the ability and knowledge of forecaster.
- I think it will help to make the accurate the forecast in the long run.
- From the very beginning
- In FForum, our forecasters get more knowledge about the regional weather systems. The information we gained in FForum is crucial for improving forecasting skills. We will plan internal discussions after the usual FForum, so that all the forecasters within MMS know what has discussed on the day(Thursday).
- Not much.
- To predict long term forecast and early waring
- FForum can assist NMHS in impact based forecasting and preparation of weather advisories
- We expected improved forecast accuracy
- Improved our short range forecast.
- Yes

- About one years
- Insights into the extreme events help in guiding some of the case studies.
- Every week meeting helps me to understand the sub seasonal forecasting.
- 8 days long period forecast.
- In summary, the FForum is poised to drive significant, positive changes in our department's operations, ultimately leading to a more agile and innovative work environment.
- Not much change
- I think
- we are happy to provide like this training for all
- improve the knowledge
- improved early warning systems and capacity building

#### Other Comments

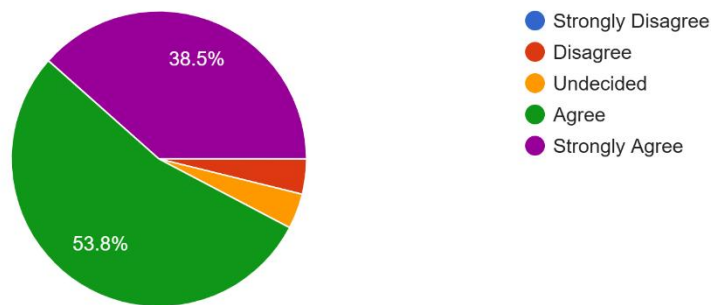
- With help of this FForum we can warn the the public about the weather.
- The research activities may be get started participating all or groups or individual member country.
- don't have
- Keep up the good work
- We should keep making weekly SAHF forecaster's forum.
- I think we should have the training for the capacity building of the forecaster every year. It helps to share knowledge between SHAF country.
- I would also suggest having mid-month or monthly discussion on every month.
- Emphasize on Extreme events based discussion.
- Need more technical exercise
- FForum can play bigger roles of providing critical information for preparation for extreme weather events
- We would like to attend the forum only during extreme weather events.
- Our national severe weather forecast(Heavy rainfall and other) has improved.

- More forecast products need to explain their importance.
- This forum should be continued
- The most useful aspect for NCMRWF is the forum initiative to provide a bridge between the forecasters and R&D centers and experts.
- Helpful for my forecasting.
- I appreciate this forum.
- Thank you so much for sharing the Technical.

Sustainability

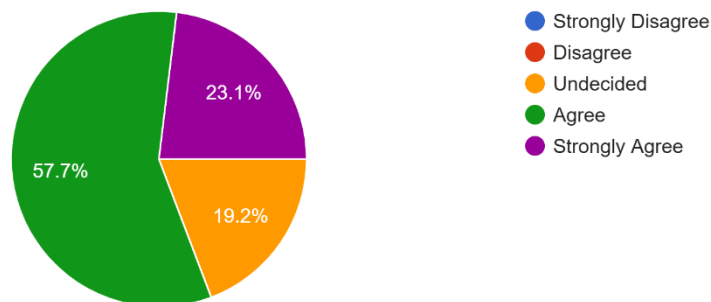
You will share the FForum learnings among your colleagues.

26 responses



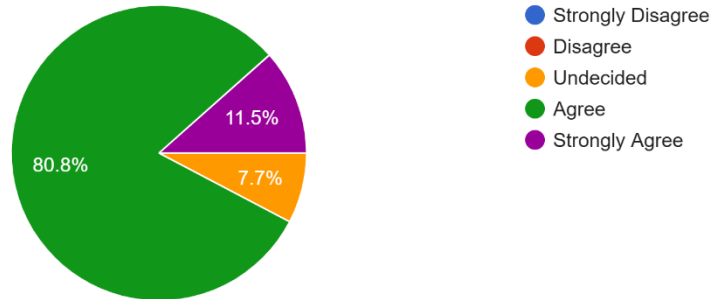
Your institution is integrating or is planning to integrate the practices, tools, and/or approaches from the Forum into your standard procedures or policies.

26 responses



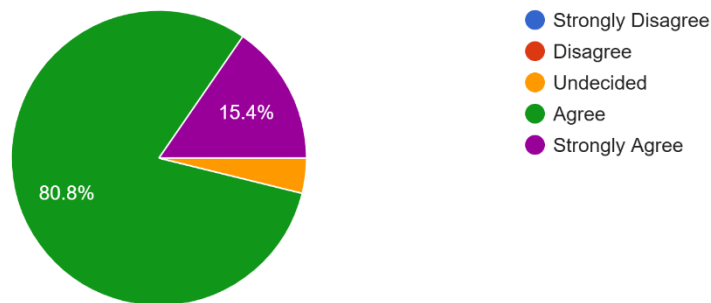
The FForum is fostering a culture of continuous learning and improvement within your department regarding weather and climate prediction and monitoring.

26 responses



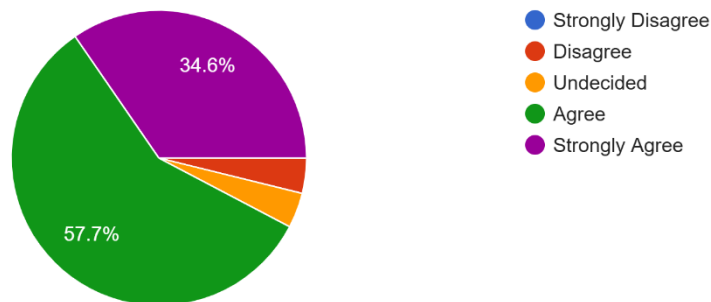
The FForum is likely to improve your collaboration with other colleagues/units in your agency/ other agencies involved in the project.

26 responses



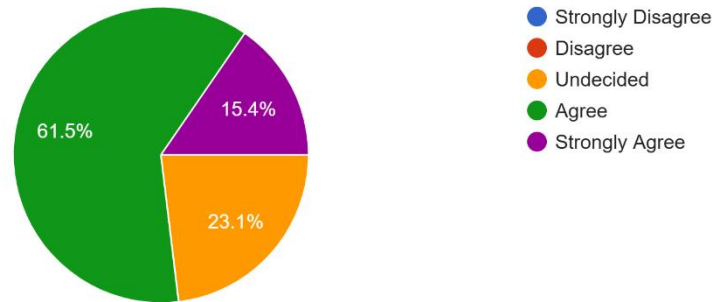
You recommend making the FForum a regular part of your organization's capacity building initiatives to reach a wider audience.

26 responses



You recommend the FForum to the other related governmental organizations.

26 responses



### Comments

- Sharing among the forecasters and weather/climate related personnel eventually increase the capacity of the institution. Other stack holders/ departments may also make use of all activities being done by FFORUM.
- We can also hold a user's forum in every 3 months
- It should be more focused on.

### Lessons Learnt and Recommendations

What went well? What areas need improvement?

- Sharing the extreme weather which is captured by models which we don't have.
- Disaster prone areas
- Experts shared valuable information about weather and climate. Participants are connected to each other. Extreme events post analysis.
- forecast
- capturing events in the northern bands. Focus on Maldives
- Need to improve IBF.
- The share detailed forecast is very good. Discussion should be country wise in detail.
- Seasonal forecasting
- The FForum has improved forecasting skills and gained more knowledge in all regional countries. Recently I met some forecasters in the region highlighted the usefulness of FForum, so I personally believe it was good forum. There are some areas that we can improve FForum such, as when MJO approaches to the Indian Ocean, during active monsoon phase the expected weather will be worse. We can discuss possible impacts in

FForum. I would suggest having climate discussion forum as well in every month. we can also include some DRR aspects, when severe weather is expected in the following week.

- Regular discussion is ok. Emphasize on Extreme events forecast.
- To engage all countries went well and need to share all forecast to every country
- Preparation for extreme weather events, arrangement of weather based special sessions
- The FForum is good to share weather information in the region. However, we have to prioritize our time, and request to attend only during extreme weather events.
- Short range severe weather forecast is very acquired and we need to improve medium and long range weather forecast.
- Prediction of extreme events
- Every sector is well.
- The discussion by different countries is useful in understanding the local weather.
- Climate forecast as well as weather forecast. Time of session should be increased.
- NWP model product discussion. The cross-matching or validation part need to discuss more.
- We do not use the F Form up to now.
- If possible, more time can be allocated for discussion
- Better predictions
- forecasting and early warning
- More improve the forecasting
- discussion about the synoptic conditions went well.

What insights/opportunities have you gained from the FForum's?

- We have gain lot, about tools which we can excess to many models to check weather and climate for our country
- Detail information
- Broader perspective of weather and climate of south Asia and forecasting challenges.
- different model products and their value
- Getting early information for the disturbances over BOB.

- It gives guidance to the coming week and month weather. helps to verify the previous week weather. helps in making better forecast.
- Forecast interpretation
- More knowledge of the regional weather systems and we had a chance to meet and ask questions with experts in the region.
- Knowledge sharing.
- Learned many types of forecasting and compared mine
- Key information to prepare advisories
- We learn about many tools and ideas for forecasting
- I have gained the good several techniques for make a good forecast
- How to explain different forecast products in relation with weather
- Knowledge
- Analysis by different countries of efficacy of NWP forecasts over last week help understand the performance of the model.
- Every week climate scenario.
- I gained the knowledge of synoptic condition from this forum.
- Mutual knowledge sharing and problem solving through consultation
- Local forecasts as well as forecasts for neighbouring countries are studied.
- we learn new thinks
- we got a lot of forecasting knowledge and improved the English speaking skill.
- proper analysis of weather systems and its impacts.

What recommendations can be made for enhancing subsequent FForum's?

- Need to share each country about weather and flood(details of extreme weathers)
- Seasonal forecast
- Case studies/success stories, Hands on sessions, more focus on AI, machine learning and big data, post event reports, Mobile applications for alerts/warnings in the region. Research activities/projects among participant countries/group of countries.
- i don't know

- instead of analysing models, converse about synoptics of why what is happening
- If we should add the upper atmospheric dynamics analysis in the discussion about why convective, severe weather system happen it would be more fruitful.
- Forecasts verification
- I would recommend including more higher resolution NWP products (If available) for the region. We can try to discuss more about the Impacts, since we are moving into IBF. I would also suggest having face to face FForum Workshop in every 3 or 6 months. Sharing knowledge and lessons learned and the FForum usefulness for past events can be discussed in the FForum workshop.
- I think it is good right now
- Focus on extreme weather events of relevance to the region that operational forecasters can pick up
- We request to adjust the frequency of the forum if we could attend only during extreme weather events. Other aspects of the forum are very effective.
- 15 days or one month forecast is required.
- More forecast products could be explained
- It should be continued
- Mostly the FForum is being organized well.
- Time of sessions up to 2 hours.
- Adding more countries.
- Physical interaction can help more in the learning process
- nothing special
- Implementing these recommendations can make future FForum's more impactful and enjoyable for all participants.
- at present i can only say that the forum should continue

Did you experience any challenges in participating in the FForum? If so, what can be improved?

- User interface enhancement of knowledge hub, Provide training and support. Frequent workshops to discuss/learn emerging technologies at least one in a year during monsoon.
- in time
- not experience any challenges yet.

- No challenges
- No issues in participating the weekly FForum.
- Sometimes internet connection disconnects and difficult to join, if think alternative way is better.
- Yes, now we are finding it difficult to attend the forum weekly, therefore we would like to request to attend the forum only during extreme weather events. If BCWCW and FForum would be joint event.
- Sometime participation every week is difficult due to official work.
- No challenger was encountered.
- No.
- We need to participate
- Not much
- nothing challenges
- Improved Communication and Engaging Content
- forecasting knowledge and improved the English speaking skill.
- sometimes due to engagement in other official works makes it difficult to participate in the forum.