

ARRCC Impact Story

Enhancing the Seasonal Monsoon Outlook



Motivation

The climate of South Asia is dominated by the monsoon system. National Meteorological and Hydrological Services (NMHSs) collaborate with other stakeholders, such as the Regional Climate Centre Pune, to produce a seasonal climate outlook in real time at the South Asian Seasonal Climate Outlook Forum (SASCOF). This outlook provides a joint assessment of the upcoming season over South Asia to offer guidance to the region's NMHSs for their preparations of national-level seasonal outlooks and to support climate-sensitive sectors (e.g. Agriculture). Using a co-productive approach and driven by user demand, an enhanced 'Seasonal Climate Outlook Statement (SCOS)' has been developed to ensure that the NMHS requirements are met and that the key messages from the SASCOF are clearly communicated. This ultimately supports informed planning, decision-making, communication, adaptation, and impact mitigation, thereby reducing climate-related risks.

Our approach

We have co-produced an enhanced SCOS product¹ in three key phases:

Phase 1: Co-exploration with NMHSs and other SASCOF attendees via workshops and surveys to identify requirements and priorities.

Phase 2: Co-develop and design a series of prototype SCOS outputs, incorporating feedback from associated surveys. Phase 3: Co-deliver the enhanced SCOS and ensure its ongoing future refinement.

Impact

Figure 1 (overleaf) shows the coproduced SCOS product, designed to enhance the usability of the seasonal information for NMHSs and other users.

More than 90% of NMHS survey respondents moderately or strongly agree that the enhanced SCOS meets its aims.

"[The enhanced SCOS] provides a good example of how Regional Climate Outlook Forum (RCOF) products can be communicated."

"It shows our forecast is based on science and global conditions."

"It gives more details of the climate drivers & how it was changed from previous year, which makes easy to apply the information." "The overall design & content is good & well arranged."

"It's become more informative for decision-making."

"[It's] very helpful for preparing our National Seasonal Forecast."

"It provides useful information to users, [which is] easy to understand with graphics."

What's next?

Implement and Facilitate: Incorporate the latest prototype feedback and facilitate its real-time production.

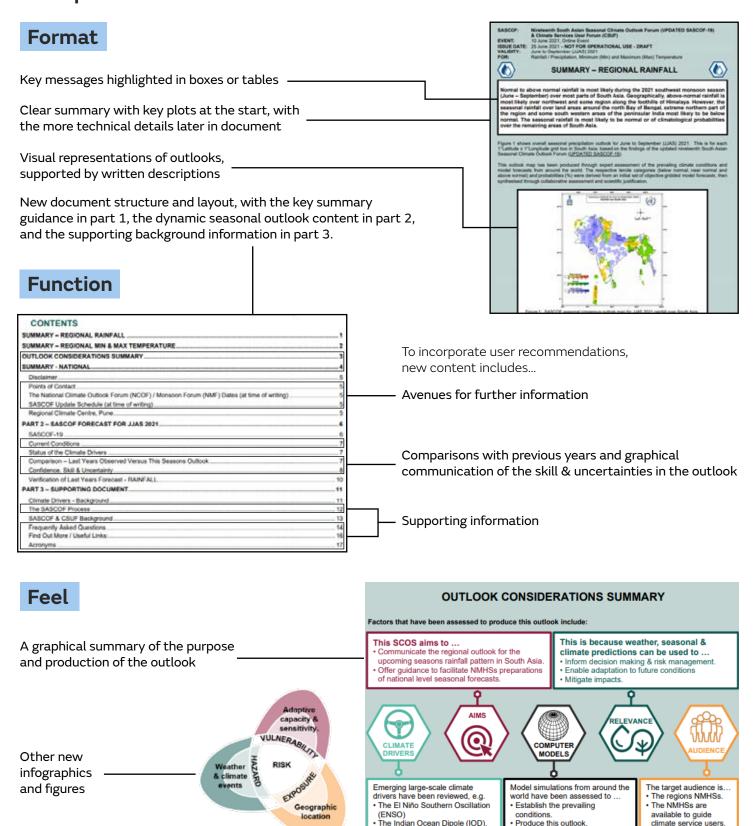
Transition to the Enhanced SCOS: Work with the SASCOF community to support the transition to and the promotion of the enhanced SCOS.

Sustain Delivery and Measure Effect: Sustain delivery and ensure ongoing feedback from the NMHSs and other SCOS users, to enable continuous refinement of the SCOS product and its adaptation to advances in science and changing user requirements.

Lessons Learned: Write a joint peer-reviewed publication about the SCOS enhancement and co-production process, so the benefits can be considered by other RCOFs and seasonal information providers.

Met Office

Examples of new features within the enhanced SCOS



¹ http://rcc.imdpune.gov.in/Products.html

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