



SOUTH ASIA HYDROMET FORUM

NWP WORKING GROUP MEETING AND REGIONAL WORKSHOP ON SKHUB & DATAEX

25-27 FEBRUARY 2025 | BANGKOK, THAILAND

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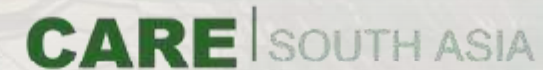
SAHF Knowledge Hub (SKHub)

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Introduction to SAHF

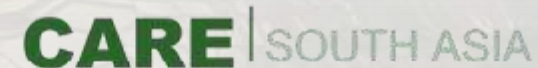
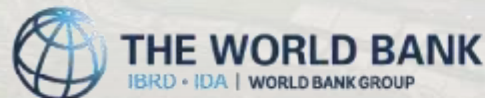
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Introduction to SAHF

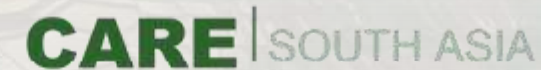
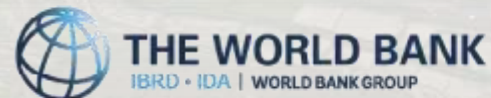
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- The South Asia Hydromet Forum (SAHF) website is the web platform to consolidate all the activities of SAHF like information on **Working Groups (IBF, NWP, CE, etc)**, **Training Events**, **EC Meetings**, **Annual Conferences** and **Relevant Initiatives**.
- Data on **SAHF's Events** (past and ongoing) such as **Agenda**, **Documents**, **Presentations**, **Photos** and overall **Media** is integrated into the platform
- Information on SAHF's **Teams**, **EC members**, **working groups members**, **partners** and **target countries** is made available into the SAHF website



Introduction to SAHF Knowledge Hub

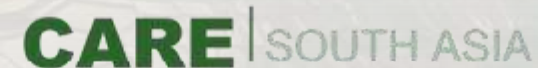
<https://knowledgehub.sahf.info/>



Introduction to SAHF Knowledge Hub (SKHub)

<https://knowledgehub.sahf.info/>

- **SAHF Knowledge Hub (SKHub)** is a dedicated web platform providing learning resources on Hydrology, Meteorology, Climate and many more.
- SKHub offers access to **ebooks**, **open-access courses**, **videos**, and **podcasts**, along with insights from the Forecasters' Forum and the Data Exchange (DataEx) platform.
- Whether you're a researcher, professional, or enthusiast, SKHub serves as a central hub for knowledge and collaboration in the field.
- Knowledge Hub also offers the newly developed **Learning Management System (LMS)** which is a platform for management, delivery and tracking of educational courses and training materials.



SAHF Knowledge Hub Objectives

<https://knowledgehub.sahf.info/>



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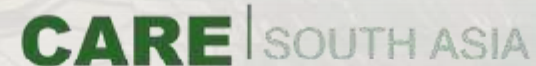
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SAHF Knowledge Hub Objectives

<https://knowledgehub.sahf.info/>

- Provide access to Openly Accessible Learning Resources
- Provide access to other SAHF platforms and resources
- Facilitating Forecasters' Forum Resources
- Deliver Structured Learning Experiences through LMS
- Support Regional and National Experts for Hydromet service delivery enhancement
- Allow researchers to put their findings and data enhancing knowledge sharing



SAHF Knowledge Hub Features

<https://knowledgehub.sahf.info/>



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Forecasters' Forum

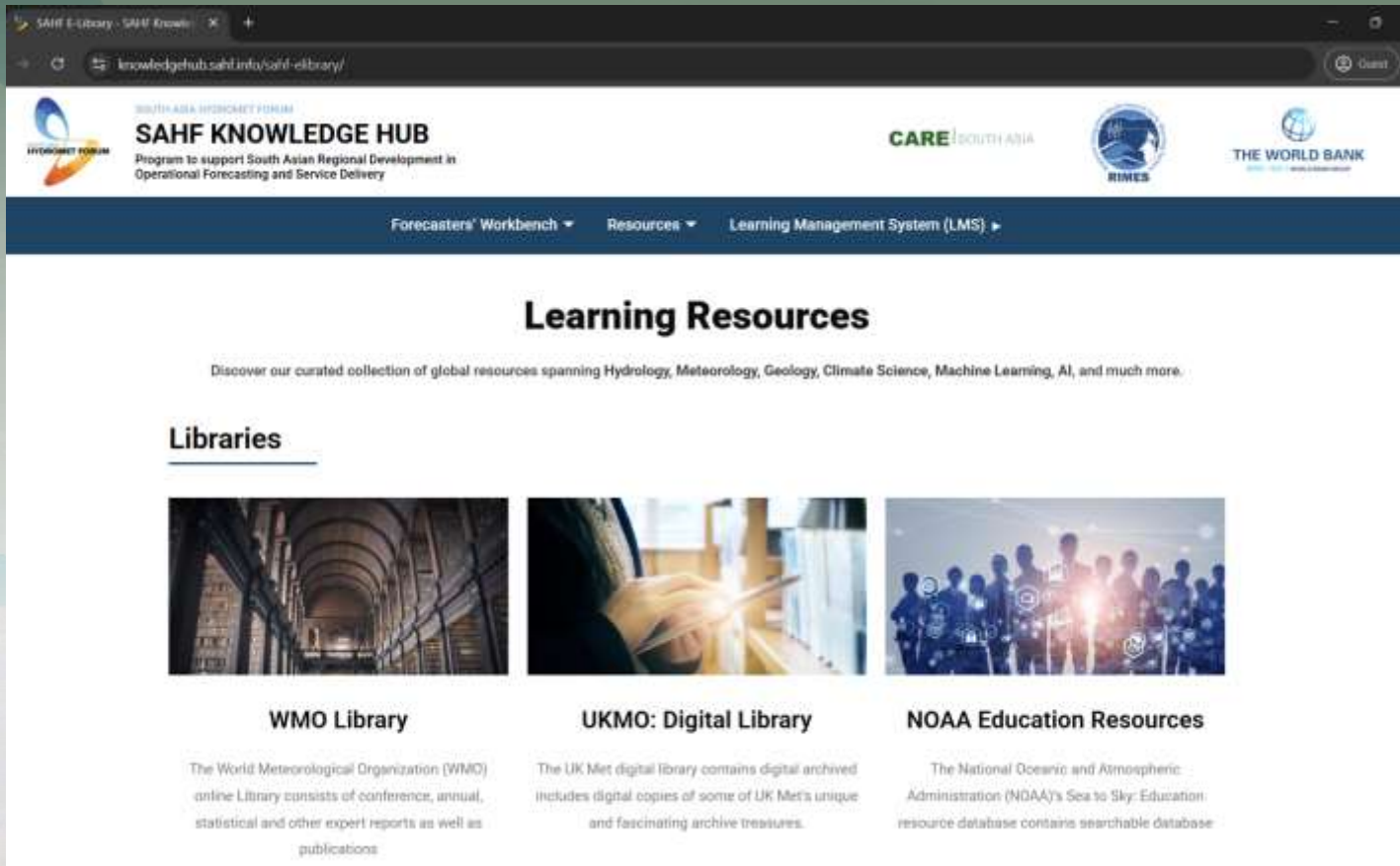
The screenshot displays the Forecasters' Forum website. At the top, a dark blue navigation bar contains links for 'Forecasters' Workbench', 'Resources', and 'Learning Management System (LMS)'. Below this, the main heading 'Forecasters' Forum' is centered. A paragraph describes the forum's purpose: 'The Forecasters' Forum (FForum) aims to leverage regional knowledge sharing to improve operational forecasting and service delivery. The forum brings together weather forecasters from NHI/MS 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. The FForum weekly discussions are held online, every Thursdays, to enhance coordinated extreme weather triggered disasters in the South Asia region.'

Below the description, a section titled 'Archived Reports' is shown, with the subtitle 'Explore the archived reports of each Forecasters' Forum'. To the left of the report list, there is a 'Reports' sidebar with a 'View Reports' button. The main content area contains a table of archived reports.

Date	Report
Feb 01, 2020	Record of Discussions_FF_12 Feb 2020
Feb 04, 2022	Record of Discussions_FF_04 Feb 2022
Mar 03, 2022	Record of Discussions_FF_03 Mar 2022
Mar 10, 2022	Record of Discussions_FF_10 Mar 2022
Mar 07, 2022	Record of Discussions_FF_17 Mar 2022
Mar 04, 2022	Record of Discussions_FF_24 Mar 2022
Mar 01, 2022	Record of Discussions_FF_31 Mar 2022
Apr 07, 2022	Record of Discussions_FF_10 Apr 2022
Apr 14, 2022	Record of Discussions_FF_14 Apr 2022
Apr 21, 2022	Record of Discussions_FF_21 Apr 2022
Apr 28, 2022	Record of Discussions_FF_28 Apr 2022
May 05, 2022	Record of Discussions_FF_05 May 2022
May 12, 2022	Record of Discussions_FF_12 May 2022
May 19, 2022	Record of Discussions_FF_19 May 2022
May 26, 2022	Record of Discussions_FF_26 May 2022
Jun 02, 2022	Record of Discussions_FF_02 Jun 2022

- Introduces SAHF Forecasters' Forum
- Archived Reports of each Forecasters' Forum updated each Thursday
- Links to Sources of Data for Forecasters' Forum

Learning Resources



The screenshot shows the SAHF Knowledge Hub website. The header includes the SAHF Knowledge Hub logo, the text "Program to support South Asian Regional Development in Operational Forecasting and Service Delivery", and logos for CARE South Asia, RIMES, and The World Bank. A navigation bar contains links for "Forecasters' Workbench", "Resources", and "Learning Management System (LMS)". The main content area is titled "Learning Resources" and includes a sub-header "Discover our curated collection of global resources spanning Hydrology, Meteorology, Geology, Climate Science, Machine Learning, AI, and much more." Below this is a section titled "Libraries" with three featured resources: WMO Library, UKMO: Digital Library, and NOAA Education Resources.

SAHF KNOWLEDGE HUB
Program to support South Asian Regional Development in Operational Forecasting and Service Delivery


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Forecasters' Workbench Resources Learning Management System (LMS)

Learning Resources


Discover our curated collection of global resources spanning Hydrology, Meteorology, Geology, Climate Science, Machine Learning, AI, and much more.

Libraries




WMO Library

The World Meteorological Organization (WMO) online Library consists of conference, annual, statistical and other expert reports as well as publications.



UKMO: Digital Library

The UK Met digital library contains digital archived includes digital copies of some of UK Met's unique and fascinating archive treasures.



NOAA Education Resources

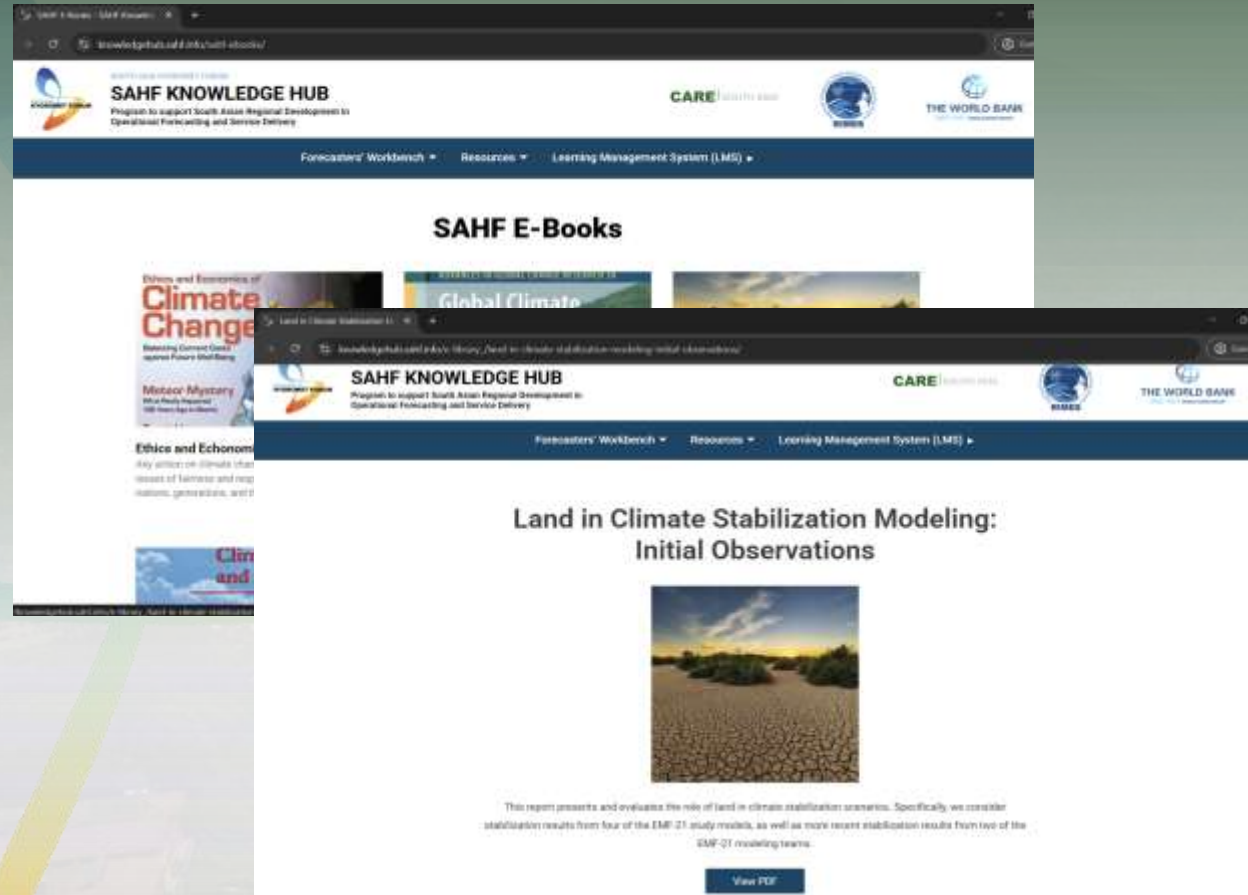
The National Oceanic and Atmospheric Administration (NOAA)'s Sea to Sky Education resource database contains searchable database.

Curated collection of:

- Open Access Courses
- Libraries
- Educational Videos
- Articles

... on Hydrology, Meteorology, Climate and many more

E-Books

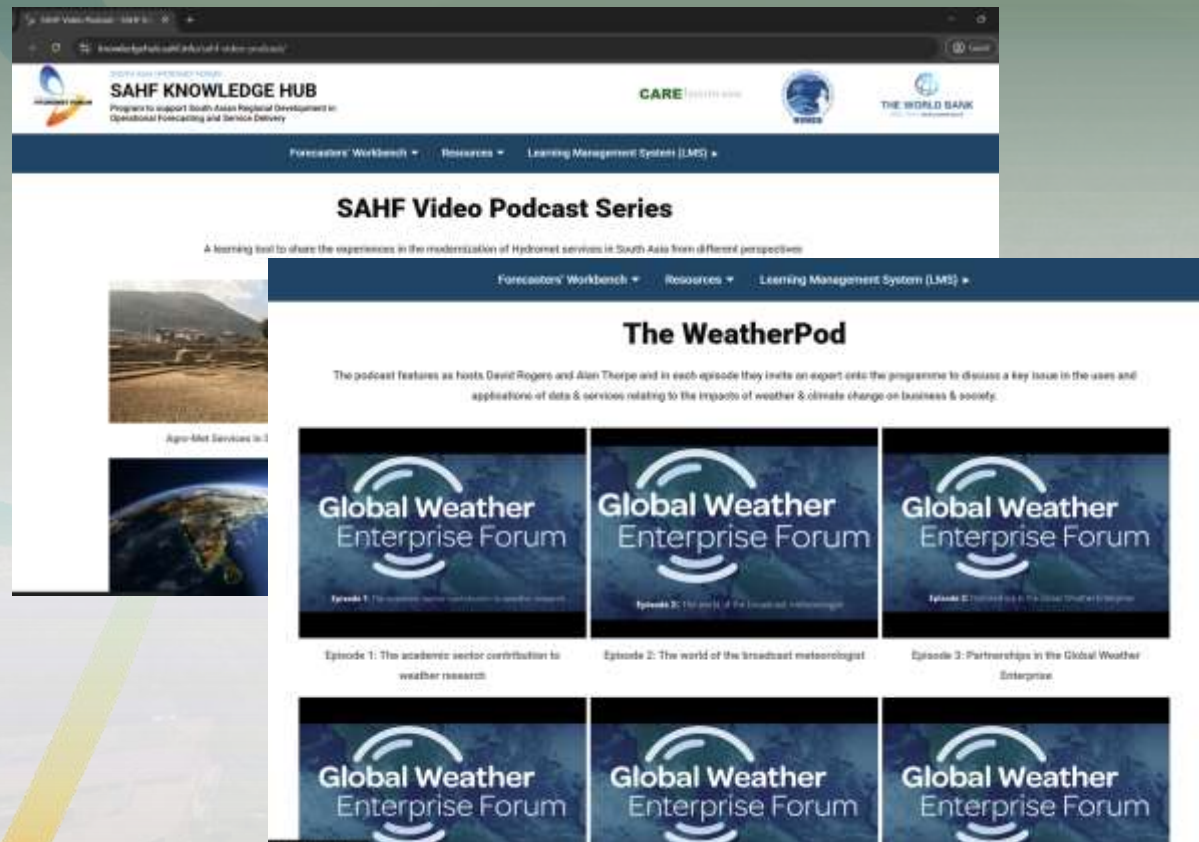


Collection of E-Books on:

- Hydrology
- Meteorology
- Climate

... and many more

SAHF Video Podcast and The WeatherPod Podcast



Links to:

- SAHF Video Podcast series
- The WeatherPod Podcast series

Linkage to DataEx

The screenshot displays the 'Forecasters' Visualization (DataEx)' web interface. At the top, a navigation bar includes 'Forecasters' Workbench', 'Resources', and 'Learning Management System (LMS)'. The main content area features a diagram illustrating data flow: 'Local Observation Data' feeds into 'Observation Data', which then feeds into 'ECMWF'. A 'DataEx' box is also shown, connected to the 'Observation Data' and 'ECMWF' components. Below the diagram, a section titled 'More About DataEx' contains a video player. The video player shows a 'Home' page with a search bar, a 'DataEx' button, and a map of South Asia with various data points. The video player controls show a duration of 3:00 / 3:42.

Forecasters' Visualization (DataEx)

ECMWF

Observation Data

Local Observation Data

DataEx

Forecasters' Workbench Resources Learning Management System (LMS)

More About DataEx

Data Exchange Platform – DataEx is a multi-source (DAHF) funded by The World Bank, products of global producing center like (C)

Access Data's

Home

Search

DataEx

Observation Stations

3:00 / 3:42

Workflow of the Data Exchange Platform

- Redirection Link to access the Data Exchange (DataEx) platform
- Informative Video on introduction to DataEx and it's features

SKHub Learning Management System (LMS) Features

<https://knowledgehub-lms.sahf.info/courses/>

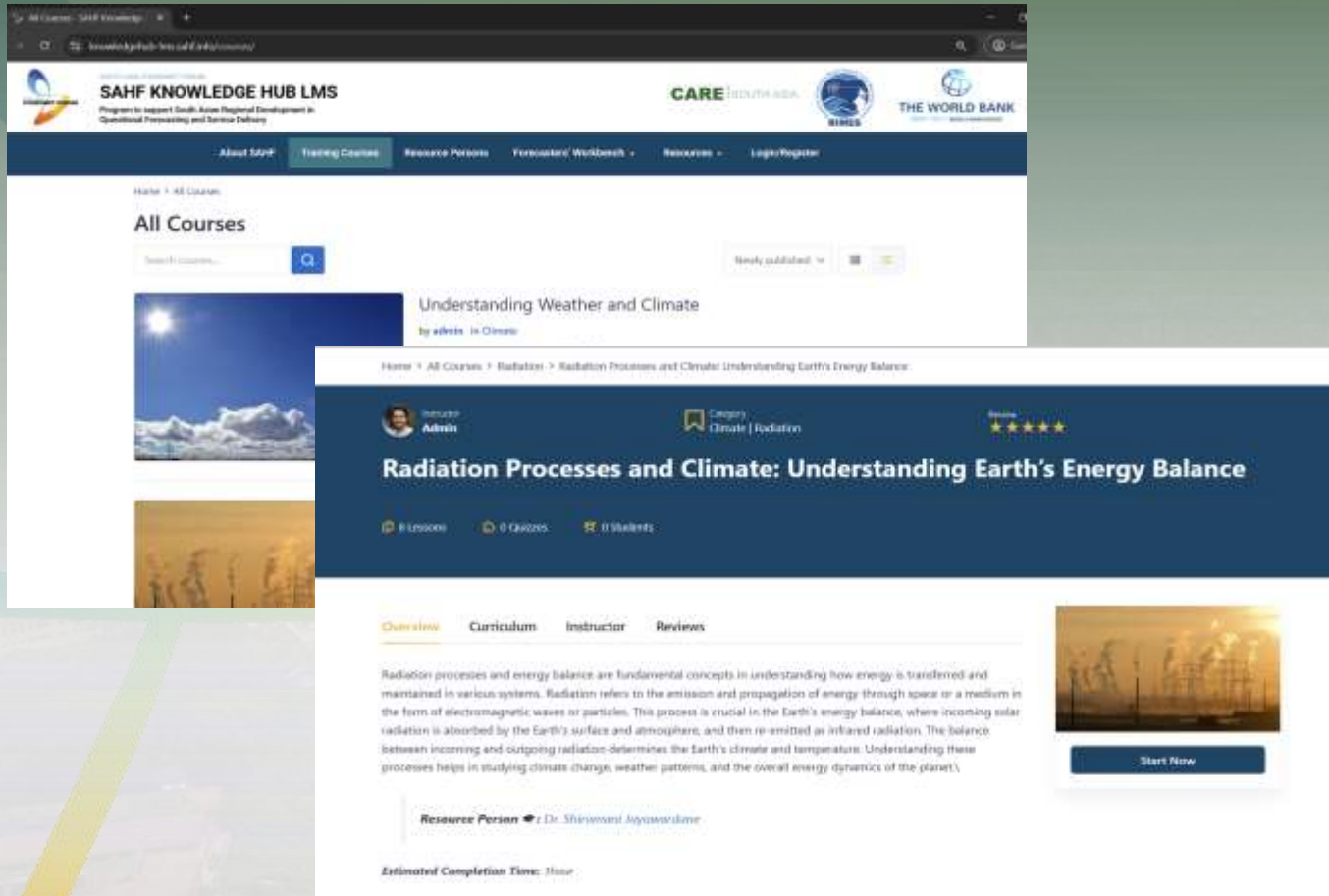


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Courses and Lessons



- Courses created by SAHF Resource Persons (Experts)
- Courses categorized as per SAHF Thematic Areas
- Courses can be searched and filtered
- Registered Users can Enroll into selected courses
- Comment/Discussion section

User Profile & Course Progress Tracking

The screenshot displays the SAHF Knowledge Hub LMS interface. On the left, a sidebar menu lists various topics under 'Radiation Processes and Climate: Understanding Earth's Energy Balance', including 'Overview', 'What are Radiation Processes?', 'Understanding Radiation Processes', 'Earth's Energy Budget And Climate Change', and 'Long-Term Implications'. The main content area shows a course titled 'Radiation Processes' with a progress bar indicating 100% completion. Below this, the user profile for 'Surajan Shrestha' is displayed, showing a profile picture and a list of courses. The 'My Courses' section includes a table with columns for Name, Result, Expiration time, and End time. The table lists a course 'Introduction to Climate System' with a result of 14.29% and an expiration time of 'Never'.

Name	Result	Expiration time	End time
Introduction to Climate System	14.29%	Never	-

- Courses structured into Chapters and Lessons
- Course Progress is automatically tracked
- Profile section:
 - Course status'
 - Jump back into courses
 - Manage details like: user's name, avatar and password update
 - Manage certificates

Certifications

- Get certificates after finishing a course
- Certificates can be downloaded
- Certificates can be managed from Profile section

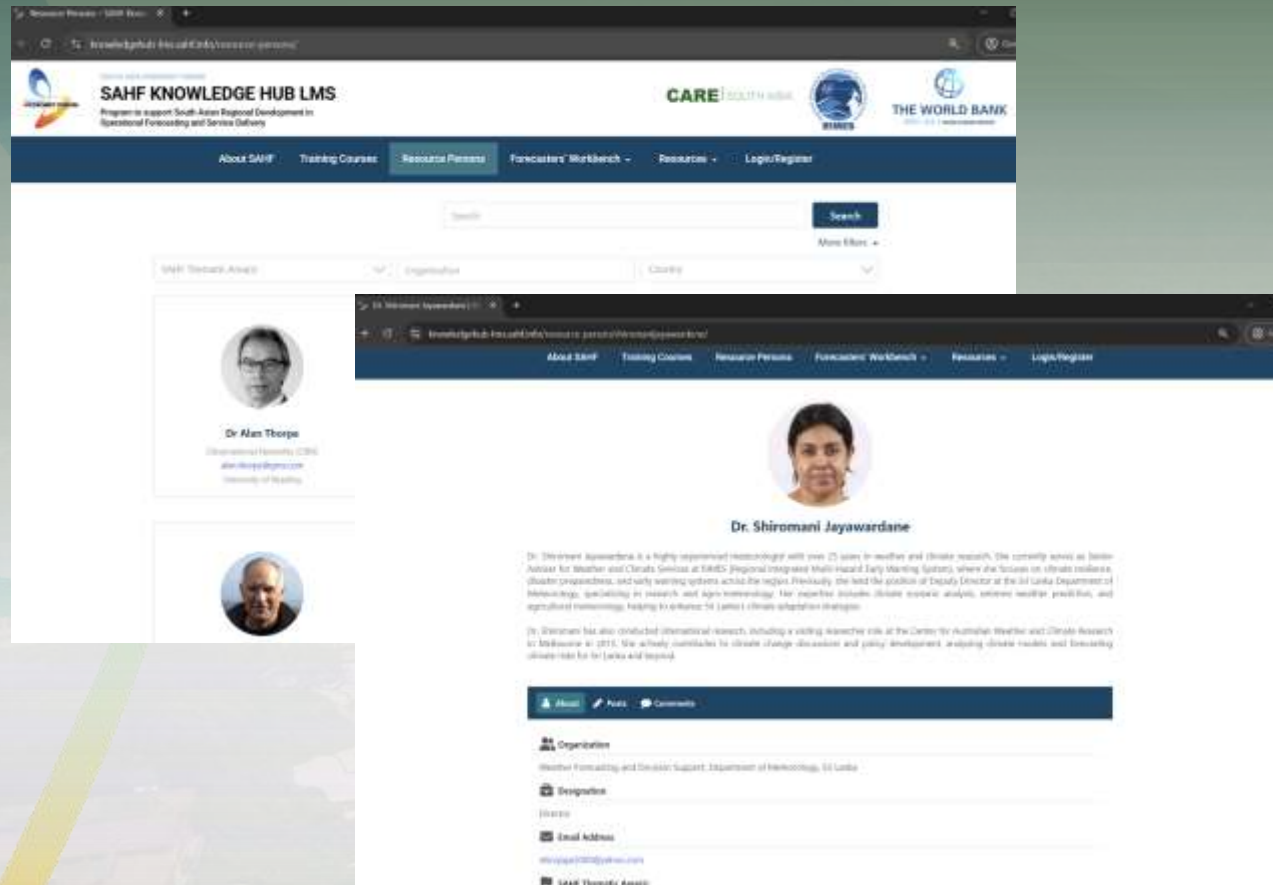


Reviews and Ratings

The screenshot displays a course interface. At the top, the course title is 'Radiation Processes and Climate: Understanding Earth's Energy Balance'. Below the title, there are tabs for 'Overview', 'Curriculum', 'Instructor', and 'Reviews'. The 'Reviews' tab is active, showing a large '4' with 5 stars and '1 rating'. A 'Write a review' modal is open, with fields for 'Title' (containing 'Course is great'), 'Content' (containing 'The curriculum is nice'), and 'Rating' (set to 5 stars). The modal has 'Add Review' and 'Cancel' buttons. In the background, a list of reviews is visible, including one from 'Surajan Shrestha' with a 5-star rating and the comment 'The curriculum is nice.'.

- Reviews can be given after enrolling into a course
- Star ratings can be given
- Course Average star rating is calculated according to the collected ratings from all enrolled users

Resource Person Roster



- Who are Resource Persons?
 - Experts on specific topics like Hydrology, Meteorology, Climate and belong to certain SAHF Thematic Areas like: IBF, NWP, etc.
- Resource Persons are listed
- List can be searched and filtered according to Name, Email, SAHF Thematic Area, Organization and Country
- Resource Person Details
- Resource Person can be contacted through email

Next Steps in SAHF Knowledge Hub & LMS

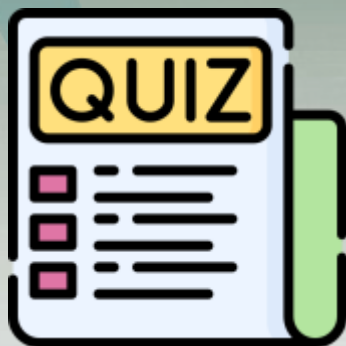


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Next Steps



Quizzes



**Community of
Practices (CoP)**



**Courses on Tools
like DataEx**

Thank You !



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