

World Fisheries Day celebrated by ICAR-CIFE, Mumbai on 21/11/21

World Fisheries Day was celebrated on 21st November 2021 by ICAR-CIFE, Mumbai in virtual mode with an aim to demonstrate solidarity with all fisher folk, fish farmers and concerned stakeholders throughout the world.

The programme started with a welcome address by Dr. N.P. Sahu, Director (Acting) ICAR-CIFE, Mumbai. In his address he highlighted the importance of this day which is dedicated to highlight the critical importance of healthy ocean ecosystems and to ensure sustainable stocks of fisheries in the world. He highlighted issues of exploring the unexplored, climate change, livelihood, anthropogenic pollution, environment, equity and the focus of Government fisheries sector.

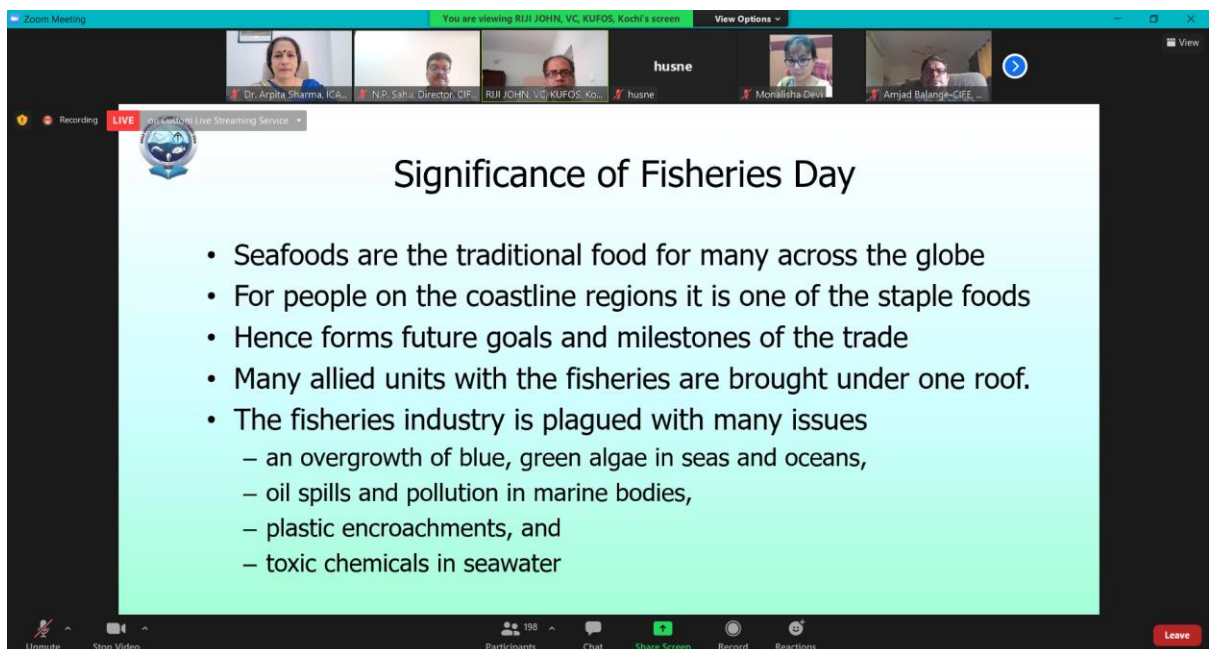
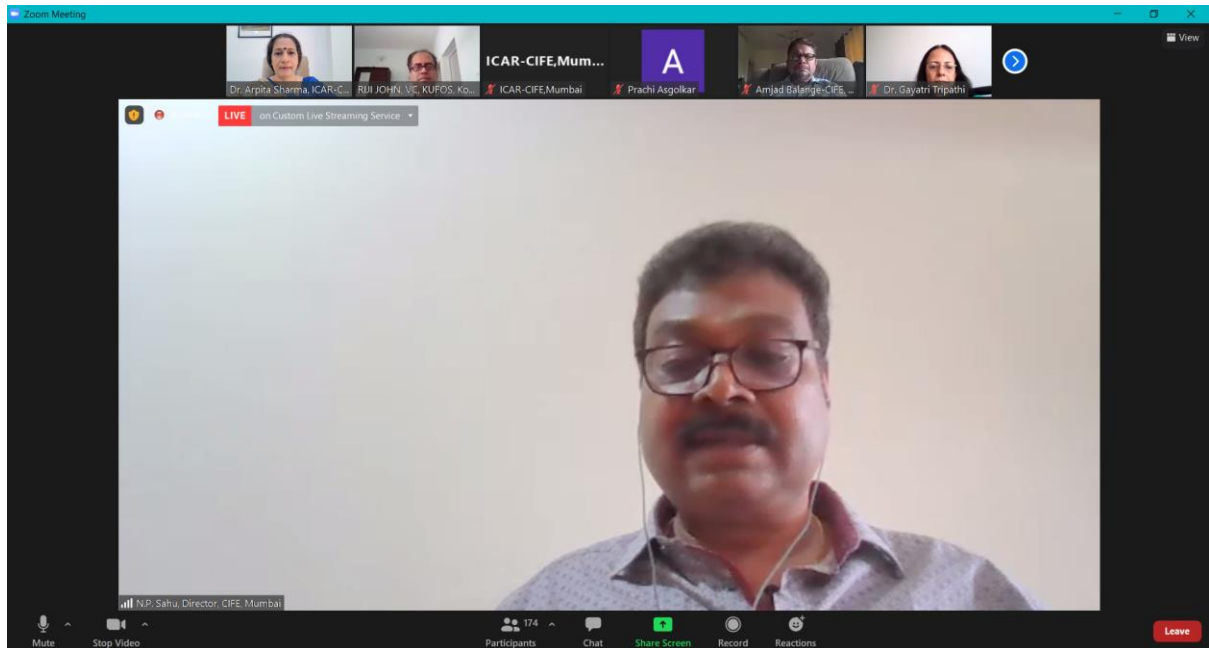
This was followed by address by the Chief Guest, Dr. K Riji John, Vice Chancellor of Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi a renowned fisheries scientist known for his work in aquaculture, fish virology and sustainability. He presented his talk on The ‘Three Es (Economic, Environment and Equity) for Sustainable Fisheries Development’. He highlighted fisheries sector role in protecting the ecosystem, providing livelihood, incomes, foreign exchange, health and nutritional security to many people across the world. Scientists, staff and students of ICAR-CIFE Mumbai benefitted from his talk.

After this the participants put forward their views/queries/opinions and interactions followed. Students raised different issues related to artisanal fisheries, climate change, harmful subsidies etc. and these were discussed by scientists.

Dr. Arpita Sharma, Principal Scientist, FEES Division coordinated the programme and presented the vote of thanks. She highlighted that the World Fisheries Day celebrations serve to focus on changing the way the world manages global fisheries to ensure sustainable stocks and healthy ecosystems.

The programme was attended by 203 participants comprising of Scientists, Technical Officers, Staff and Students of ICAR-CIFE, Mumbai and its Centre.

Glimpses of World Fisheries Day celebrated by ICAR-CIFE, Mumbai on 21/11/21




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Sanath Kumar RAJENDRAN KV Dr. Babitha Rari Dayal Devadas Kaberi Biswas Dr. R.P. Raman

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Oceans and Terrestrial Aquatic systems

- The oceans and their marginal seas cover nearly 71 percent of Earth's surface
- By volume, 97.957 percent of the water on the planet exists as oceanic water and associated sea ice
- Fresh water in lakes and streams makes up 0.036 percent



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Martin Dr. S. Dasgupta S. Munilkumar,... Dr. Gayatri Tripa... SP Shukla

Martin Dr. Sikendra Kumar Dr. S. Dasgupta S. Munilkumar, ICAR-C... Dr. Gayatri Tripathi SP Shukla

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Social Equity

- ▶ adopt social equity measures
- ▶ providing access to healthcare and education, protecting the environments, access to resources such as food, water, and good housing, and providing opportunities for participation through jobs.
- ▶ adequate social infrastructure to take care of the needs of labor conditions on fishing vessels seafood processing
- ▶ treat all with justice and fairness.
- ▶ PROFIT, People and Planet

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Dr. Arpita Sharma, ICA... | N.P. Sahu, Director, CIF... | RIJI JOHN, VC, KUFOS, Kochi... | husne | Dr. Babitha Rani | Kaberi Biswas

On Fisheries

- Climate change will affect fish and their habitats.
- Warmer temperatures will influence
 - the abundance,
 - migratory patterns and
 - mortality rates of wild fish stocks and
 - determine what species can be farmed in certain regions
 - social and economic consequences for people dependent on fisheries and aquaculture - from workers to coastal communities to consumers of fish..



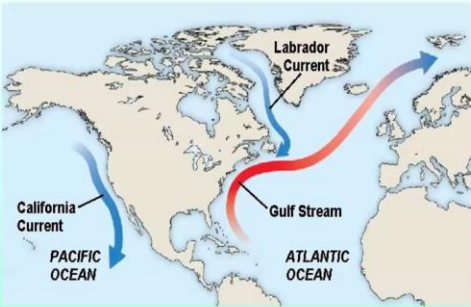
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Kaberi Biswas | Jeena K | Sanath Kumar | KABERI | RAJENDRAN KV | Manjusha L

- Global and local ocean circulation is changing, with a weakening of patterns such as the Gulf Stream and the California Current upwelling, and
 - an increase in upwelling in other areas,
 - Responses are still heterogeneous and predictions have low confidence.



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Recording LIVE

Participants: Dr. Arpita Sharma, ICA... | N.P. Sahu, Director, CF... | RIJ JOHN, VC, KUPOS, Kochi... | husne | NISHA CHUPHAL FNT... | Dr. Babitha Rani

- The absorption of increasing amounts of anthropogenic CO₂ by the oceans results in acidification of waters,
 - with potentially detrimental impacts on shell-forming aquatic life;
 - water acidity has increased by 26 percent since the industrial revolution and
 - this trend will continue, especially in warmer low- and mid-latitudes.

Ocean acidification

late 1800s: reduced acidity, seawater pH ~8.2, lower concentration of atmospheric CO₂, abundant healthy corals, mollusks, and other marine calcifiers.

2100 (projected): increased acidity, seawater pH ~7.8, higher concentration of atmospheric CO₂, fewer carbonate ions, fewer, smaller marine calcifiers.

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