









### International Conclave on

# Mainstreaming Climate Change into International Fisheries Governance and Strengthening of Fisheries Management Measures in the Indo-Pacific Region

16-19 October 2023







# Chronicle THE LARGEST CIRCULATED ENGLISH DAILY IN SOUTH INDIA

# Climate-resilient fisheries global conclave at Mahabs on Tuesday

DC CORRESPONDENT CHENNAI, OCT. 15

A three-day international conclave on Mainstreaming Climate Change into International Fisheries Governance will get underway at Mahabalipuram on Tuesday. The event will be inaugurated by Union fisheries minister Parshottam Rupala at 9 am at Welcome hotel, at Kences palm beach. Organised by the Food and Agriculture Organisation (FAO)

Organised by the Food and Agriculture Organisation (FAO) of the United Nations in collaboration with the Union department of fisheries and the Bay of Bengal Programme Inter-Governmental Organisation (BOB-IGO), the conclave seeks to develop guidelines for climate-resilient fisheries management and formulate strategies for the integration of climate change into international fisheries governments.

ernance. Leading marine scientists, pol-

icymakers and high-ranking government officials from 16 regional fisheries bodies in the Indo-Pacific region covering 80 countries will attend the conclave.

Union minister of state L Murugan will deliver a special address and Dr Abhilaksh Likhi. Union fisheries secretary, will deliver the keynote address India's developmental, researd and policy initiatives for climate-resilient marine fisheries when the conclave.

The meet will also feature workshop exclusively to disc India's preparedness for ading to climate change in mafisheries. This workshop encompass discussions or current status of clichange impacts on marineries in India, steps take address these impacts, galimitations in knowleds techniques, and actions in the short and long ter-

# India's initiatives for climate resilient marine fisheries to be presented at int'l conclave



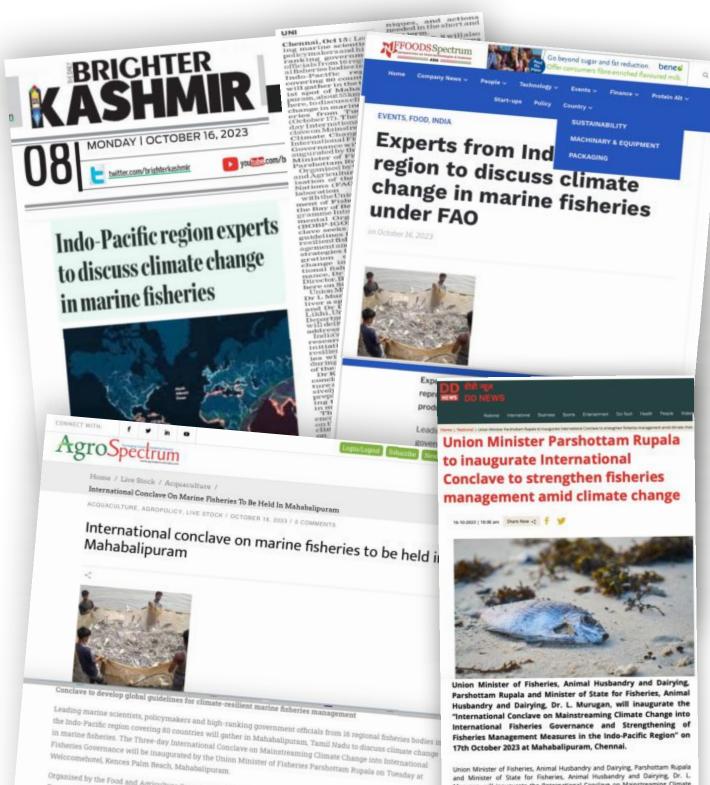
Chennai, Oct 15 (IANS) Leading marine scientists, policymakers and others from 16 regional fisheries bodies in the Indo-Pacific region covering 80 countries will gather in Mahabaspuram, near here to participate in the three day climate change in marine fisheries conclave that would begin on October 17. The International Conctave on Mainstreaming Climate Change into International Fisheries Governance will be inaugurated by the Union Minister of Fisheries Parshottam Rupala.

Organised by the Food and Agriculture Organisation of the United Nations (FAO) in collaboration with the Central government's Department of Fisheries, and the Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO), the conclave seeks to develop sidelines for climate resilient fisheries management and formulate strategies for the Integration of climate change into international fisheries governance.

Union Minister of State L. Murugan will deliver a special address, while Abhilaksh Likhi, Union Secretary, Department of Fisheries, will deliver the keynote address, said a statement from BOBP-IGO.

India's developmental, research and policy initiatives for climate resilient marine fisheries will be presented during the inauguration of the conctave.

The conclave will also feature a workshop exclusively to discuss India's preparedness for adaction to climate channe in marine fisherine



Fisheries Management Measures in the Indo-Pacific Region" on 17th October 2023 at Mahabalipuram, Chennai.

Union Minister of Fisheries, Animal Husbandry and Dairying, Parsho union Minister of risheries, Animal Husbandry and Dailying, Parshottam Bupata and Minister of State for Fisheries, Animal Husbandry and Dailying, Dr. L. Murugan, will inaugurate the "International Conclave on Mainstreaming Climate Change into International Fisheries Governance and Strengthening of Fisheries Management Measures in the Indo-Pacific Region" on 17th October 2023 at Mahabalipuram, Chennai.

the Brainstorming Session on India's Preparedness for Adapting to Climate Change in Marine Fisheries and the thematic exhibition wherein research and educational institutes; community organizations and entrepreneurs would display their innovations and activities related to the theme. Dr. L. Murugan will deliver the special address. Union Minister Parshottam Rupala will inaugurate the International Conference

FAO senior officials, representatives from Regional Fisheries Bodies (RFBs), ter under the Ministry of Eisheries, Animal Musi

Organised by the Food and Agriculture Organisation of the United Nations (FAO) in collaboration with the

Dr L. Murugan, Union Minister of State will deliver a special address and Dr Abhilakah Likhi, Union Secretary. Department of Fisheries will deliver the keynote address. India's developmental, research and policy initiatives for

The conclave will also feature a workshop exclusively to discuss India's preparedness for adapting to climate change in marine fisheries. This workshop will encompass discussions on the current status of climate change impacts on marine fisheries in India, steps taken to address these impacts, gaps and limitations in knowledge and

climate-resilient marine fisheries will be presented during the inauguration of the conclave.

for the integration of climate change into international fisheries gover

Department of Fisheries, Govt. of India, and the Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO), the conclave seeks to develop guidelines for climate-resilient fisheries management and formulate atrate



Mahabalipuram, Chennai.

the special address.

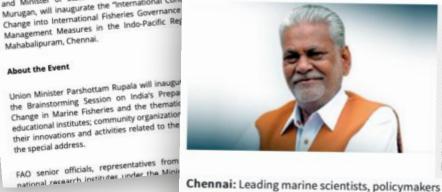
About the Event

India's initiatives for climate resilient marine fisheries to be presented at int'l conclave









HIGHLIGHTS

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scientists, policymakers and high-ranking government officials from 16 regional fisheries bodies in the Indo-Pacific region covering 80 countries will gather in the tourist spot of Mahabalipuram, about 55 km from here, to discuss climate change in marine fisheries from Tuesday (October 17). The three-day International Conclave on

International Fisheries Governance will be inaugurated by the Union Minister of Fisheries Parshottam Rupala.

Organised by the Food and Agriculture Organisation of the United Nations (FAO) in collaboration

Tags: #Indo-Pacific region experts to discuss climate Please log in to get detailed story. change in marine fisheries under FAO from Oct 17-19 in Chennai







# WEINESON CENTAGE TERMS OF TABLE TO THE THREE TERMS OF THE TABLE TO THE TERMS OF THE TABLE THREE TERMS OF THREE

Seafood exports hit record high last year: Union Minister

The Hindu Bureau CHENNAL

Seafood exports have more than doubled in the last than doubled in the last nine years, with record ex-ports to the tune of 63,969 crore in 2022-23, said Parshottam Rupala, Union Minister of Fisher-ies, Animal Husbandry and Dairvine

Dairying. He was speaking at the inaugural of a conclave on mainstreaming climate change into international change into internazional fisheries governance and strengthening tisheries management measures in the Indo-Pacific region. "The impact of climate change on fisheries is al-



indo-racinc region repre-senting over 80 countries are participating in the two-day conclave organ-ised by the Bay of Bengal Programme (BOBP) and the Eved and Agriculture the Food and Agriculture Organization (FAO) of the United Nations in Chennai.

United Nations in Chennal.
Speaking at the event,
Takayuki Hagiwara, FAO
Representative in India,
said there were several
areas that FAO and India
could work together. "Ho
use are behind on

standing in the way of ful-filling the SDGS, the FAO was working with India to get back on the right

get back on the right course of action, he noted. Piero Mannini, Senior Fisheries Officer, FAO; Da-rius Comphell, Chair of the rius Campbell, Chair of the Regional Fisheries Bodies Secretariat Network; P Regional Pickeries P Krishnan, Director, BOBP-IGO; Abhilalesh Likhi, Se-cretary, Fisheries Depart-ment; Neetu Prasad, Joint Fisheries De-Secretary, Fisheries De-partment were present.

It was announced that the first edition of Global Conference 2023

businessine in the heatening of the course o 'Investments by Centre have boosted fisheries sector'

Our Bureau

Union Minister of Fisheries Animal Husbandry Dairying, Parshottam Rupala on Tuesday said the Centre's increased focus on the fisheries sector in the fisheries sector in the last decade has substan-tially boosted fish and aquaculture production. Since 2015, the Centre

since 2015, the Centre has substantially stepped has substantially stepped to up public investments to the tune of ₹38,572 crore in the tune of ₹38,572 crore in the tune or v36,374 treat in the fisheries sector. Due to the investments, India is the second largest aquacul-ture producer and third ture producer and third largest fish producer in the

India's fish production increased to a record 17.4 million tonnes (provi-sional) in 2022-23. Fish production from inland aquaculture increased to 13.13 million tonnes in 2022-23, he sald.

The Centre has, in the last nine years ushered in transformational changes/ reforms through multi-



Parshottam Rupala, Union Minister for Fisheries

pronged strategies and fo-cused interventions in the areas of fish production and productivity, technology inproductivity, technology in-fusion, strengthening and modernisation of infra-structure, boosting do-mestic consumption and exports, growth of entre-prencurship and employ-ment with the welfare of fishers and fish farmers at the cure, he said. the core, he said.

#### EXPORTS DOUBLED

India's seafood exports have more than doubled in the last nine years with re-cord exports of \$\tau\_{0.3},969\$ crore in 2022-23. Similarly,

shrimp exports more than doubled in the last nine years with exports of 443,135 crore, he said. The Minister was ad-

dressing the international conclave on the theme 'Mainstreaming Climate Change in to International Fisheries Governance and Strengthening of Fisheries Management Measures in the Indo-Pacific Region' at Mahabalipuram. Officials from 16 regional fisheries hodies from the Indo-Pacific region representing over 80 countries are present at the two-day conference that began on Tuesday.

During the last nine years, about 61.9 lakh jobs were generated under many chemes. Some 6 lakh fisher families families annually are provided with livelihood nutritional nutritional support fishing ban/lean during period.

As many as 33 lakh fish-As many as 53 lakn fish-ermen have been insured under Group Accident In-surance Scheme in FY 2022-23 and 1 lakh

transponders are being installed for monitoring, con-trolling and surveillance of marine fishing vessels/boats

in sea.

Highlighting adverse impacts of climate change in
marine fisheries sector, the Minister called for collabor-

ative global action to ad-ative global action to ad-dress this challenge. "Impact of the climate crisis on fisheries is already being felt worldwide and it is expected to become more severe in the future." Rupala said.

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# THE TIMES OF INDIA

# Fish exports up di central govt initia

TIMES NEWS NETWORK

Chennai: Fish exports, shrimp production and exports have doubled in the country in the last nine years due to the thrust given to the sector by the central government, said Union minister for fisheries, animal husbandry and dairying, Parshottam Rupala, here on Tues-

Speaking gurating an nal conclave reaming clin into internat govern ries strengthenin es managem res in the Ind gion,' he said es, animal and dairy d used to fund agriculture

"Soon after power, a ne was form sters appo

Fishp country, 95.79 la 2013-14. tons in alshri 3.22 1 perio lakh

# Centre setting up ₹170 cr seaweed park in TN OP. ARULN | DC CHENNAI, OCT. 17

The Union government is setting up a multipurpose seaweed park (inte-grated aquapark) worth Rs. 170 crore in Tamil Nadu, said Union minister for fisheries, animal husbandry and dairying Parshottam Rupala. Inangurating the International

Inaugurating the 'International Conclave on Mainstreaming Climate Conclave on Mainstreaming Climate Change into International Fisheries Governance and Stronothening of Change into international Fisheries Governance and Strengthening of Fisheries Management Mo-the Indo-Pacific Mahabalin

The conclave is being organised by The conciave is being organised by the Food and Agriculture Organisation (FAO) of the United Nations in collaboration with the department of fisheries, Union ministry of fisheries animal bushandry cepartment of fisheries, Union with the istry of fisheries, animal husbandry programme Inter-Governmental Organisation (BOBP-IGO) with an resilient fight. r climate ent and integra-

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# 'Need collaborative action to tackle climate crisis in fisheries sector' adversaries and able to mini-

NEW DELHI: Union Minister for Fisheries, Animal Husbandry and Dairying Parshottam Rupala on Tuesday called for a collaborative global action to address climate crisis in the fisheries and aquacul-

Rupala, in his inaugural address at the three-day global conclave held at Mahabalipuram, Tamil Nadu, also urged for inclusive space for all stakeholders based on common responsibilities and common interests. The conclave on "mainstreaming climate change into international fisheries governance and strengthening of fisheries management measures in the Indo-Pacific region" was jointly organised by the UN body FAO and the Union ministry.

"He also urged for strategic interconnection for the



Union Minister for Fisheries, Animal Husbandry and Dairying Parshottam Rupala

common opportunities and common challenges shared by the Indian Ocean and the Pacific Ocean and called for the responsibility to face the challenges, threats and resolve the problems together so as to make this region a suitable habitat for all life forms," an official statement said.

The outcome of the conclave will be a great help to the fishermen communities of the Indo-Pacific region to tackle

mize the impact, if any, he said.

Highlighting the central government's measures taken in the last nine years in the fisheries sector, Rupala said, the Union government is setting up a Multipurpose Seaweed Park (integrated aquapark) worth Rs 127 crore in Tamil Nadu.

Since 2015, the focus attention has been given to modernisation and creation of 107 projects of fishing harbours and fish landing centres across the coastal states," he added.

The fisheries sector contributes to the country's economy in a big way as seafood exports have more than doubled in the last nine years, with record exports of Rs 63,969 crore in 2022-23. Fisheries Secretary Abhilaksh Likhi and Joint Secretary Neetu Prasad were also present at the event.



theries, Animal Husbandry and for a collaborative global action to ly global conclave held at Jusive space for all stakeholders into international fisheries agement measures in the Indobody FAO and the Union ministry. te common opportunities and and the Pacific Ocean and called sats and resolve the problems bitat for all life forms," an official p to the fishermen communities and able to minimize the impact, if

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# Rupala pitches for collaboration to address climate crisis in fisheries and aquaculture

Shri Parshottam Rupala also said that the fisheries sector contributes a good stake in India's economy and provides livelihood for over 2.8 crore fishers and fish farmers at primary level.

es Deok | New Delhi | Updated: 17-10-2023 20:16 IST | Created: 17-10-2023 20:16 IST





रूपाला ने मतस्य पालन और जलीय कृषि क्षेत्र में जलवायु संकट से निपटने के लिए सहयोगात्मक वैश्विक कार्रवाई का आह्वान किया है।

रूपाला ने मंगलवार को तमिलनाडु के महाबलीपुरम में आयोजित तीन दिन के वैश्विक सम्मेलन

nion Minister for Fisheries, A (FAH&D) Shri Parshottam Ru Conclave on Mainstreaming

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Posted at: Oct	17 2023 4:58PM			West	
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Fisheries Governance and Strengtheni in the Indo-Pacific Region' today. The and Agriculture Organisation of the I the Department of Fisheries, Ministr Dairying, Government of India, and Governmental Organisation (BOBP Mahabalipuram, Chennai with an a resilient fisheries management an climate change into international Fisheries, Secretary, Dr. Abhilak Fisheries, Ms. Neetu Prasad wer While declaring the inauguration Parshottam Rupala said that thi climate change, its impact on regional fisheries bodies towa Shri Rupala urged for inclusi responsibilities and common action to address climate cr urged for strategic intercor common challenges share called for the responsibili problems together so as t

## Union Min Rupala pitches for collaborative global action to address climate crisis in fisheries, aquaculture



Chennai, Oct 17 (UNI) Highlighting the adverse impacts of climate change in marine fisheries sector, Union Fisheries Minister Parshottam Rupala on Tuesday called for collaborative global action to address this

He said India was committed to collaborate with the international community in tackling the issues posed by the climate crisis.

conclave on mainstreaming climate change into international fisheries governance at Speaking after inaugurating the global Mahabalipuram, about 55 km from here, he said the impact of climate crisis on fisheries is already being felt worldwide and it was expected to become more severe in future. Tags: #Union Min Rupala pitches for collaborative global Please log in to get detailed story. action to address climate crisis in fisheries#aquaculture

# Outlook

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# Need For Collaborative Global A Address Climate Change: Unior

Rupala also called for the responsibility to face the challenges problems so as to make the region a suitable habitat for all life





# KRISHI JAGRAN

### Union Fisheries Minister Rupala Opens Global Clin Conclave on Marine Fisheries

on Fisheries Minister Rupala on Tuesday addressed the Global Climate Conclave on Marine Fisheries.



Union Minister of Fisheries Parshottam Rupala inaugurated the global conclave on m into international fisheries governance in Mahabatipuram at 9 a.m. on Tuesday. "The ind shared responsibility of all the countries sharing the border, making it a sustainable hab said Mr Rupala.

He further mentioned that PM Narendra Modi has been taking steps to curb climate of

Leading marine scientists, policymakers, and high-ranking government officials from the Indo-Pacific region covering 80 countries attended the meeting, including Bang developmental, research, and policy initiatives for climate-resilient marine fisheries inauguration of the conclave.

### Climate-Resilient Fisheries Development

Organised by the Food and Agriculture Organisation of the United Nations (FAC Department of Fisheries, Govt. of India, and the Bay of Bengal Programme Inter-G

# weeklyvoice.com

#### Presentation of India's Climate-Resilient Marine Fisheries Initiatives at International Conclave

by Voice - October 15, 2023 in Business Reading Time: 3 mins read



## onial Properties Jobs Classifieds Red Chillies Music Ask Dr Greetings Astrology Indian govt stepped up investment for fisheries sector since 2015: Parshottam

Tue, Oct 17 2023 03:00:26 PM



Mamallapuram, Oct 17 (IANS): Union Minister for Fisheries Parshottam Rupala on Tuesday said the government has stepped up its investment for the fisheries sector since 2015 and the fish production has increased manifold.

Inaugurating International Conclave on Mainstreaming Climate

Change into International Fisheries Governance and Strengthening of Fisheries Management Measures in the Indo-Pacific Region here, Rupala said climate change will impact agriculture, fisheries and food security.

Organised by the Food and Agriculture Organisation of the United Nations (FAO) in collaboration with the Department of Fisheries, Government of India, and the Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO), the conclave seeks to develop guidelines for climate resilient fisheries management and formulate strategies for the integration of climate change into international fisheries governance.







### Indian Govt Stepped Up Investment For Fisheries Sector Since 2015: Parshottam Rupala

(MENAFN- IANS) Mamallapuram (Tamil Nadu), Oct 17 (IANS) Union Minister for Fisheries Parshottam Rupala on Tuesday said the government has stepped up its investment for the fisheries sector since 2015 and the fish production has increased manifold.

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Hans India

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India's initiatives for climate resilient marine

ENTERTAINMENT PHOTO STORIES







MACHINARY & EQUIPMENT

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under FAO

EVENTS, FOOD, INDIA

Experts from 16 regional fishe representing about 70 per cer

Experts from Ind

region to discuss climate change in marine fisheries

> MACHINARY & EQUIPMENT Il attend the co

fisheries to be presented at int'l conclave IANS | 15 Oct 2023 5:30 PM IST

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#### HIGHLIGHTS

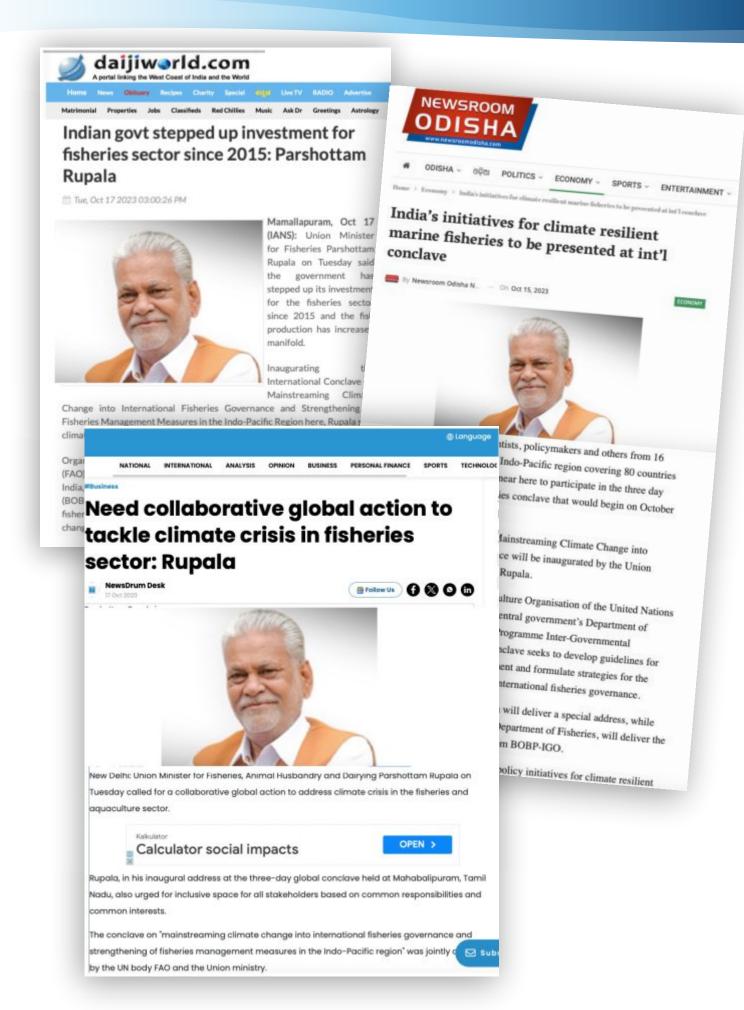
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### Rising sea surface temperatures affecting fish distribution in Indian किस न 💮 waters

Updated - October 18, 2023 at 09:24 AM.

The rising sea surface temperature is affecting the spa distribution and phenology of fish

BY BL CHENNAI BUREAU

Rising sea surface temperature (SST) is affecting fish distribution patterns in Indian waters, said JK Jena, Deputy Director General c Indian Council of Agricultural Research (ICAR).

He was speaking on India's research initiatives for the climateresilient marinefisheries at the inauguration of the global concl mainstreaming climate change into international fisheries governance in Mahabalipuram on Tuesday.

→ Also read: CMFRI researchers embark on coastal survey of marine mammals

Analysis of SST in Indian seas during 40 years (1975-2015) st increase of 0.60 degree celsius along the NE coast, 0.59 deg along the NW coast, 0.697 degree celsius along the SE coas degree celsius along the SW coast. The rate of change was NW India, indicating greater climate-change impact alon coast than the east coast, he said.

SST increase is affecting the spatial distribution and phy fish. This in turn is leading to fish maturing at smaller s means less reproductive output (less number of eggs) a recruitment to the fishery. For instance, the Bombay di early at a smaller size from 232 mm to 192 mm. Earlier matured at a size of 410g, but now matures at 280g, h

ing sea surface temperature (SST) is resulting in premature eproductive output, decreased recruitment to the fisheries ning Climate Change into International Fisheries ment Measures in the Indo-Pacific Region here, Indian ctor General, Dr J.K. Jena said. ce are now found at deeper levels due to SST. ecially important fish species such as the Indian oil

e previously scarce, forming a local fishery which

News / खबरें / Climate Change: समुद्र की सतह जोड़ गहरें पानी में जा शी है नवलियां, जानें वडह

# Climate Change: समुंद्र की सतह छोड़ गहरे पानी में जा रही हैं मछलियां, जानें

क्ताइकेट चेंज कर समुद्र पर बहा प्रथम दिखाई देने लगा है. मरीन निजारीज और कावड़मेट चेंज विषय पर अपनेजित इंटरनेगवत कॉन्कोन में इस पर बर्चा की गई है. एकास्टें क्ताहरूप का का बाहु पर बहा जमान १८वाइ दन लगा है. भाग राजगणन भार कादमाट कर १वसम पर अमाजात इंटरवर्गना कामाना में हुए पर क्यां का गई है. एकावट के मुनाविक समूदी बनाइ के तामाना में बढ़ोजरी हो रही है. महाबागर में केनिकल फिल रहे हैं. समुद्र का सार बढ़ रहा है. गळवात जैसी घटनाएं बढ़ रही है. बसूद की गर्स महारों की संध्या भी बढ़ रही है. आत तीनी (दक्षिणी धीनन) भी बढ़ रहा है.



of Book, Oct 19, 2023, Updated Oct 19, 2023, 4:35 PM IST

क्षेत्रक कताइमेट चेंज को लेकर अभी उतनी गंभीरता नहीं दिखाई जा रही है जितने की जरूरत है. लेकिन खतरे की पंटी कन पुकी है. किसी एक दो जगह न्यात का प्रकार के का तथा अपना अध्यात का मानवाद जा एक का व्यास का जरूरत है. सामृद के प्रकार का प्रधा का पुना क नहीं अब हर एक पेरेन्ट में इसका असर दिखाई देने लगा है. समुद भी इससे अप्रता नहीं रहा है. समुद्र में पतने वाली महालियों पर भी क्लाइमेट बैंज का असर होने लगा है. यहाँ कजह है कि समुंद्र की सतह पर पतने वाली मछलियों ने जब सतह को छोड़ना शुरू कर दिया है. हाल ही में महाबलिपुरम,

विषय था मरीन फिसरीज और कलाइमेट पेंज. इस मौके पर हिप्टी हापरेक्टर जनरल जेके जैना (फिसरीज साईस), इंहियन कार्जसिल ऑफ एग्रीकरण्स रिसर्च ने मरीन विनारीज पर कलाव्हमेंट चेंज के हो रहे प्रभाव पर कई कहम जानकारियां सामने रखीं.

ये भी पढ़ें- Poultry: मुर्गी पालवः बोलें- अंग्रेजों के कानून जैसा है 'ब्रॉयलर इंटिपेशन फार्मिंग एपीमेंट', जानें ब्रिटेल 50 मीटर गहरे पानी में उतर रही हैं मछलियां

50 नाटर गहर पाणा ग उत्तर रहा हु गछाराप। डीडीजी जेके जेना ने कॉन्क्सेय के टीवन बनाया कि कलाइमेट चेज कर असर इतना होने लगा है कि मछलियां अब अपनी जगह को छोड़ने लगी हैं. जैसे बढाज जान जमा न कान्यतम क थाएम भागम क कामकृष्ट भार पर जान क्यान क्या तमा कुछ नकामक जान नामा जनकुष्ण का काक्य का समुद्र की सतह पर खने वाली मछलियां ने सतह को छोड़ना शुरू कर दिया है. एक खास प्रजाति की मछनी सतह पर रहती थी. लेकिन अब ये 50 मीटर न्दुर पानी में एकड़ी जा रहि है. ये एक बड़ा और खतरनाक संकेत है. इतना ही नहीं मछितयों के सद्भव और कजन पर भी इसका असर पढ़ रहा है. ये भी पढ़ें- Poultry: राकेश टिकेस का सरकार से बड़ा सवाल, घोल्ड्री एचीकल्पर में है या इंडस्ट्री है

### बढ़ रहा है समुंद्री सतह का तापमान

इसी बड़ी वजह के चलते कुछ मछलियों का वजन और साइज घट रहा है. जैसे बॉम्बे इक प्रलाति 232 एमएम से चटकर 192 एमएम छैसे छोटे अकार में विचार हो रही है. और अगर वजन वेर्ड बात करें तो पहले जिल्लार पॉफोट 410 ग्रम के आकर में वैच्छेर होता था, लेकिन अब 280 ग्राम पर पैचार हो रता है. ऐसे ही समुद्री झींगा की लंबाई में भी कमी देखी गई है.



#### BHASKAR LIVE

ENGLISH NEWS

#### 'Increasing sea surface temperature results in prematuring of fishes'

Deputy Director General of Indian Council of Agricultural Research (ICAR).

He was outlining India's research initiatives for the climate-resilient marine fisheries at the inauguration of the

global conclave on mainstreaming climate change into international fisheries governance in Mahabalipuram on



Mamallapuram (Tamil Nadu) Oct 17 (IANS) Rising sea surface temperature (SST) is normalization (not make year) of the properties of the analysis of the second temperature (pay) is enabling in premature multi-union of fishes at smaller plans, reduced reproductive output, decreased recruitment to the fisheries and also affects fish distribution patter in Indian waters, an official said on Tuesday.

In his address at the International Conclave on Mainstreaming Climate Change Into in the accessed at the incommunional concurrer on reterioristating curriant Change entol intermational Fisheries Government and Strengtheing of Fisheries Management Measures in the Indo-Pacific Region here, Indian Council of Agricultural Research's (ICAR) Deputy Director General, Dr. J.K. Jena sold.

He also said the fishes which used to be near the surface are now found at deeper levels due to SST.

tena said there is an extended distribution of commercially important fish species such

These species are now found in regions where they were previously local fishery which was hitherto unknown from those areas," he said.

Moreover, the increased SST affects the phenology of fish, leading to premature maturation at smaller sizes, reduced reproductive output, and decreased recruitment to the fishery.

the country has instanted a research project for the development of species distribut climate models and projections.

ese models are designed to predict alterations in sea temperature, ocean currents. and other climatic elements that influence fish populations. This scientific initiative aims to comprehend long-term patterns and develop appropriate strategies to safeguard the future of Indian fisheries," he said.

According to him, India has also launched climate smart marine fisheries value chain aimed at developing a prototype with critical centrol points to strengthen the value chain

#### LIVE CRICKET SCORE

nercially important fish species such as the indian oil



#### SEARCH NEWS



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#### ng sea surface temperature affects fish distribution ern in Indian waters : ICAR



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this spoke about the extended distribution of communically important species such as the Indian oil sandine and mackets!, adding: "These less are now shourd in regions where they were previously scarce, ing a local fishery which was bitherto unknown from those areas."

see, Jama and that the country has initiated a research project for the present of species distribution climate models and projections.

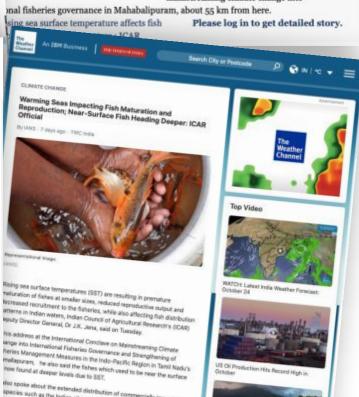
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referring to India's research initiatives for climate-resilient m

Chennai, Oct 17 (UNI) Rising Sea Surface Temperature (SST) is affecting fish distribution patterns in Indian waters, Indian Council of Agricultural Research (ICAR) Deputy Director General Dr J K Jena said on Tuesday.

He was outlining India's research initiatives for the climate-resilient marine fisheries at the inauguration of the global conclave on mainstreaming climate change into



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# 'Increasing sea surface temperature results in prematuring of fishes'

October 18, 2023

Rising sea surface temperature (SST) is resulting in premature maturation of fishes at smaller sizes, reduced reproductive output, decreased recruitment to the fisheries and also affects fish distribution patterns in Indian waters, an official said on Tuesday.

In his address at the International Conclave on Ma Governance and Strengthening of Fisheries Manag Council of Agricultural Research's (ICAR) Deputy He also said the fishes which used to be near the slena said there is an extended distribution of comsardine and mackerel. "These species are now foul local fishery which was hitherto unknown from the phenology of fish, leading to premature mature decreased recruitment to the fishery. Referring the fisheries, Jena said that the country has initiated distribution climate models and projections.

"These models are designed to predict alteration elements that influence fish populations. This s and develop appropriate strategies to safeguard According to him, India has also launched climate



# 'Increasing sea surface temperature results in prematuring of fishes'

Tue, Oct 17 2023 08:32:44 PM



Mamallapuram, Oct 17
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Moreover, the increased SST affects the phenology of fish, leading to prear reproductive output, and decreased recruitment to the fishery.

Referring to India's research initiatives for climate resilient marine fisheri research project for the development of species distribution climate mode



Mamallapuram (Tamil Nadu) Oct 17 Rising sea surface temperature (SST) is resulting in premature maturation of fishes at smaller sizes, reduced reproductive output, decreased recruitment to the fisheries and also affects fish distribution in his address.

In his address at the International Conclave on Mainstreaming Climate Change into International Fisheries Governance and Strengthening of Fisheries Management Measures in the Indo-Pacific Region here, Indian Council of Agricultural Council of Agricultural

He also said the fishes which used to be near the surface are now found at deeper levels due to SST.





By 2100, 86% of fish species within the Exclusive Econor Zone of the Asian nations are likely to be at high or critic climate risk

BY BL CHENNAI BUREAU

A global consortium of marine biologists warned is devastating marine life, threatening Asian cou According to them, by 2100, the highest proport 86 per cent— within the Exclusive Economic Z nations are likely to be at high or critical clima per cent in North America; 73 per cent in Ocea

By this period, 'the greatest proportion of his is likely to be in the Indian high seas with 5 per cent in the North Pacific oceans', they s

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This was the major highlight of a special fishery experts from Regional Fisheries B Pacific region, held at the ongoing interr mainstreaming climate change into int governance in Mahabalipuram.

The conclave is being organised under Agriculture Organisation of the United collaboration with the Department of and the Bay of Bengal Programme In (BOBP-IGO).



Scientists Warn of Climate Crisis Threatening Marine Life





ng marine life, threate ming Asian countries the

According to them, by 2100 the highest proportion of fish species—86%—within the Exclusive Economic Zone (EEZ) of the Asian nations in Ikely to be at high or critical climate risk, compared to 77% in North America, 73% in Oceania and 71% in Africa. By this period, the greatest proportion of high or critical risk species is likely to be in the Indian high seas with 56% followed by 42% in the North Pacific oceans, they

This was the major highlight of a special workshop attended by fishery experts from Regional Fisheries Bodies (RFBs) in the Indo-Pacific region, held at the ongoing international conclave on mainstreaming climate change into international fisheries governance in Mahabalipuram near here.

The three-day conclave is being organised under the leadership of the Food and Agriculture Organisation of the United Nations (FAO), in collaboration with the Department of Fisheries, Government of India, and the Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO)

nling her views at the workshop, Tarub Bahri, a climate expert and fishery resources officer at the Fisheries and Aquaculture Division of the FAO said that warming of ocean had an adverse impact on

crease by up to 12% by 20%0, but with large

gliting good practices, gaps and challenges.







#### SUSTAINABILITY

### Asian fisheries at high-risk of climate crisis, warn scientists

20/10/2023

By 2100, the greatest proportion of high or critical risk species is likely to be in the Indian

Climate change is devastating marine life, particularly threatening Asian countries, a global consortium of marine biologists has warned.



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# Asian marine life to be impacted the most due to climate change: Experts

IANS - World News - 2023-10-18 11:15



Mamallapuram (Tamil Nadu (NS:TNNP)), Oct 18 conference here warned that the marine life of A to climate change. According to marine biologists species, 86 per cent, within the Exclusive Econo to be at high or critical climate risk, compared to Oceania and 71 per cent in Africa.

By this period, the greatest proportion of high o high seas with 56 per cent followed by 42 per c

The experts from Regional Fisheries Bodies (F special workshop held at the International Con International Fisheries Governance and Stren the Indo-Pacific Region.

The three-day conclave is being organised ur Organisation of the United Nations (FAO), in This was the projection of the United Nations (FAO), in This was the projection of the United Nations (FAO). Government of India, and the Bay of Bengal (BOBP-IGO).

Aquaculture Division of the FAO, the warmii Bengal Programme Inter-Governmental Organisation (BOBP-IGO).



#### Climate Crisis Threatening Marine Life as Asian Countries Face High Risk, Scientists Warn



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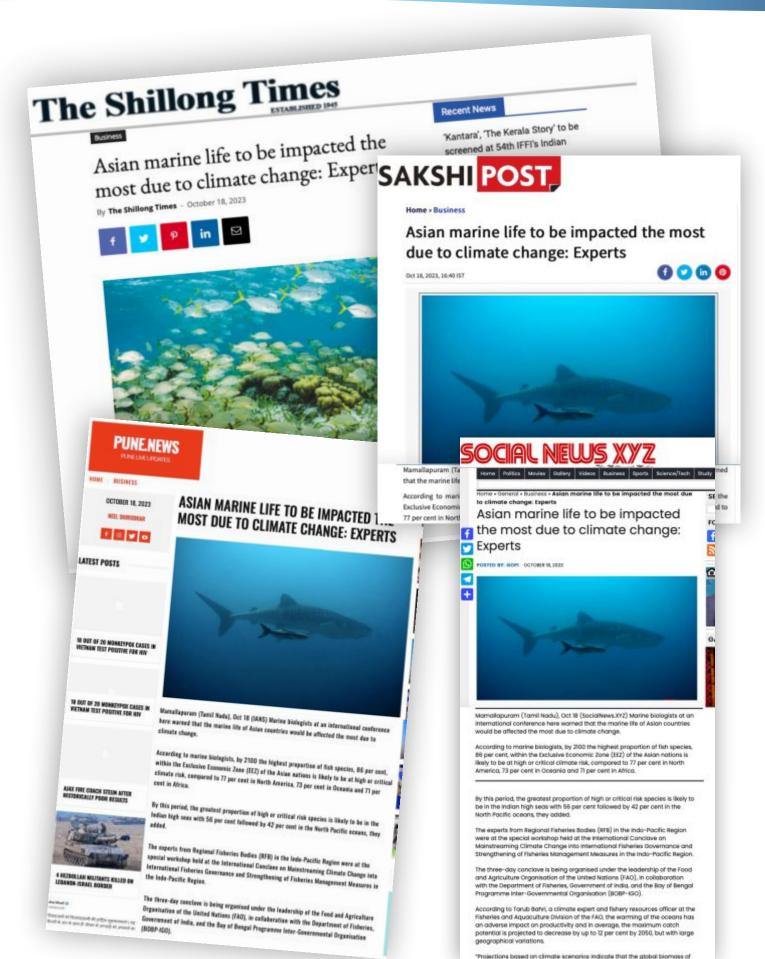
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Presenting her views at the workshop, Tarub Bahri, a climate expert and fishery resources officer at the Fisheri and Aguaculture Division of the FAO said that warming of ocean had an adverse impact on productivity and "in average, the maximum catch potential is projected to decrease by up to 12% by 2050, but with large geographic











# 'Climate change taking a toll on marine life'



BANGLADESH

The Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO) has sought greater research cooperation among the member countries as climate change is taking a toll on marine fisheries of the Bay of Bengal region.

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CHENNAI, 22 October 2023: The Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO) has sought greater research cooperation among the member countries as climate change is taking a toll on marine fisheries of the Bay of Bengal region.

The Bay of Bengal is home to a rich diversity of fish stocks, but many are now overexploited or collapsed, due to a combination of factors including climate change, rising river basins, and inadequate management, said Dr P Krishnan, Director of BOBP. He was presenting the status report of the region at the global conclave on mainstreaming climate change into international fisheries governance in Mahabalipuram near

The region is bordered by six developing countries, including India and two small Island states. According to the report, the Indian Ocean is warming faster than other oceans, and this is disrupting the migratory routes arounds of the Hilsa fish, which is one of the important co

rcial fisheries in ne report said. So are showing a d n the region, ca t intervention to inably improv

re is a special i te science netwo ountries, Dr adding that du pacity and fund ting large-s mmes has cult.

The countries of gal must work tect their shar ources. They r research and prove manage and adopt su methods to p oods of millio e region," he Detailing the e said that int ial mitigati dopting gre uilding healt najor plans o

Climate Change Taking Toll On Marine Fisheries In Bay Of Bengal Region, Says Status Report



Organization (1999) (20) seed of the read of the part Programme Inter-Governmental in the region and accept greater research cooperation among member countries the region and accept greater research cooperation among member countries to detect obstacle calls. The status reject of the region was presented at a global coincider on membersaming climate change into intervalsional fathering presentance in the status report on the contribution of t

"The Bay of Bengal is borne to a rich diversity of fish stocks, but many are now overexploited or collapsed, due to a combination of factors including dilinate change, maing river basins, and inadequate management."

The region is bordered by air developing countries, including India and two arms stated states. According to the report the Indian Cleans is warning feater than or occurs, and this is clanging the migratury makes and specuring grounds of the Hillas Sist, which is an important species for commercial failuress in the region.

The report under scored that some fish stocks are showing a declining trend in a region, and called for usperd intervention to support improving the fisheries in a sort another rest, the inferse eitherd.

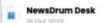


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Climate change taking toll on marine fisheries in Bay of Bengal region,

says status report



Chennai: A status report by the Bay of Bengal Programme Inter-Go (BOBP-IGO) said climate change is taking a toll on marine fisherier greater research cooperation among member countries to check

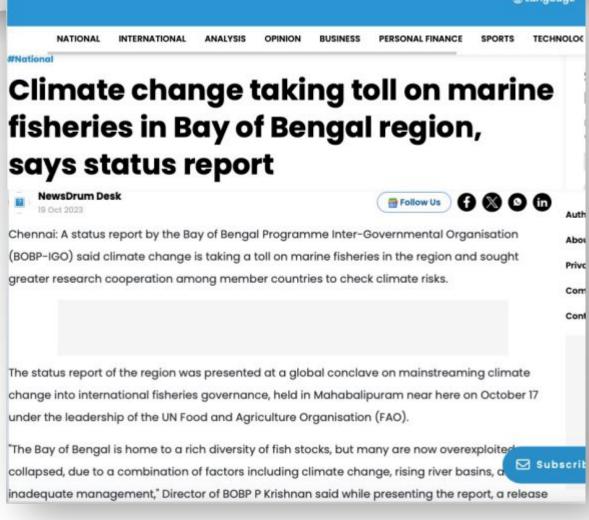
The status report of the region was presented at a global conclar change into international fisheries governance, held in Mahabali under the leadership of the UN Food and Agriculture Organisation

"The Bay of Bengal is home to a rich diversity of fish stocks, but m collapsed, due to a combination of factors including climate cho inadequate management," Director of BOBP P Krishnan said while



A status report by the Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO) said climate change is taking a toll on marine fisheries in the region and sought greater research cooperation among member countries to check climate risks. The status report of the region was presented at a global conclave on mainstreaming climate change into international fisheries governance, held in Mahabalipuram near here on October 17 under the leadership of the UN Food and Agriculture Organisation (FAO). 'The Bay of Bengal is home to a rich diversity of fish stocks, but many are now overexploited or collapsed, due to a combination of factors including climate change, rising river basins, and inadequate management," Director of BOBP P Krishnan said while presenting the report, a release said. The region is bordered by six developing countries, including

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The Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO), set up in 2003, is a regional fisheries advisory body (RFAB) with Bangladesh, India, Maldives and Sri Lanka as its member countries. The Organisation evolved from the erstwhile Bay of Bengal Programme of the Food and Agriculture Organization of the United Nations (FAO) founded in 1979.

The BOBP-IGO is mandated to enhance cooperation among its member-countries as well as other countries and organizations in the Bay of Bengal region and provide technical and management advisory for sustainable fisheries development and management.

BOBP-IGO is committed to contributing towards accelerating the transformation of the fisheries sector of this region towards real-time, evidence-driven, and ecosystem-based management, leveraging our global knowledge networks and effective partnership with the national governments and their constituent research and academic institutions.

For further details, please see: www.bobpigo.org



#### **Bay of Bengal Programme Inter-Governmental Organisation**

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