



Food and Agriculture Organization  
of the United Nations

Fisheries and  
Aquaculture Department

## FAO Aquaculture e-Bulletin

March 2015

Welcome to this March 2015 edition of the **FAO Aquaculture e-bulletin**, covering our most recent news, publications, technical workshops and projects for the period **October 2014 to March 2015**. We hope that this information can be also useful to you in your own aquaculture work.

This newsletter presents just a selection of what we do and we encourage you to visit our website [www.fao.org/fishery/aquaculture](http://www.fao.org/fishery/aquaculture) to find out more or to contact by e-mail the officers of the FAO Fisheries and Aquaculture Department's Aquaculture Branch (FIRA) responsible for the various activities.

### Highlights

- Mr Mathiesen (Assistant Director-General, Fisheries and Aquaculture Department of FAO) delivered a presentation on video broadcast in the occasion of the **Strategy Meeting for Action on Blue Growth and Food Security**, in Saint George's, Grenada, 11-13 March 2015. [See video](#).
- **The FAO Global Aquaculture Production Statistics database** is updated to 2013. The dataset covering 1950-2013 can now be consulted online at [www.fao.org/fishery/statistics/global-aquaculture-production/query](http://www.fao.org/fishery/statistics/global-aquaculture-production/query). **FishStat J**, the data dissemination package can be downloaded at [www.fao.org/fishery/statistics/software/fishstatj/en](http://www.fao.org/fishery/statistics/software/fishstatj/en).  
Information: X. Zhou
- The questionnaire to assess aquaculture compliance with the **Code of Conduct for Responsible Fisheries (CCRF)** by Member countries has been recently launched through the new interactive web system [www.fao.org/fishery/code/codequest](http://www.fao.org/fishery/code/codequest). Each member country has received a letter from FI ADG together with specific credentials to be able to produce one national report. The results of this global assessment of aquaculture compliance with the Code will be presented to the VIII session of the COFI Sub-Committee on Aquaculture in Brazil in October 2015.  
Information: D. Soto
- FAO fielded an **Emergency Disease Investigation Mission to the Democratic**

**Republic of Congo (DRC)** to investigate a suspected outbreak of Epizootic ulcerative syndrome from 13-19 March 2015. The field mission team was consisted of Drs Bernard Mudenda Hang'ombe (Zambia), David Huchzermeyer (South Africa), and Leopold Mulumba (DRC).

Information: M. Reantaso

## Publications

- Gumy, A., Soto, D. y Morales, R. 2014. **Implementación práctica del enfoque ecosistémico a la pesca y la acuicultura del camarón en los países del sistema de integración centroamericana (SICA/OSPESCA)**. Taller FAO/OSPESCA, San Salvador, El Salvador, 18 al 21 de junio de 2012. FAO Actas de Pesca y Acuicultura. No. 33. Roma, FAO. 372 pp.
- Somerville, C., Cohen, M., Pantanella, E., Stankus, A. & Lovatelli, A. 2014. **Small-scale aquaponic food production. Integrated fish and plant farming**. FAO Fisheries and Aquaculture Technical Paper No. 589. Rome, FAO. 262 pp.
- Government of Bangladesh & FAO. 2014. **National Aquaculture Development Strategy and Action Plan of Bangladesh 2013–2020**. FAO Non-Serial Publication. Rome, FAO. 42 pp.
- FAO/Regional Commission for Fisheries. 2015. **Report of the sixth meeting of the Working Group on Aquaculture, Muscat, Oman, 21–23 October 2014**. FAO Fisheries and Aquaculture Report No. 1094. Rome, FAO. 50 pp.

## Web-based products

- The **National Aquaculture Sector Overview (NASO)** collection has been enriched with the **updated** Fact Sheets of **Albania, Croatia, Cyprus, Lebanon, Oman, Qatar, Slovenia, United Arab Emirates, Algeria** (French version) and **Spain** (Spanish version).
- The **National Aquaculture Legislation Overview (NALO)** collection has been enriched with the **new** Fact Sheets of **Viet Nam** and **Gambia**, the Arabic version of **Ecuador** and **France**, and the Chinese version of **Algeria, Costa Rica** and **Croatia**.

## Projects

- **Angola** - FAO is providing assistance to Angola on the UTF project "Technical Support for Spatial Planning of Aquaculture Zones in the Republic of Angola". This project aims to facilitate investment and promote an effectively governed aquaculture development sector that is socially inclusive, equitable and environmentally responsible ([read more](#)).

Information: J. Aguilar Manjarrez

- **Bangladesh** - TCP/BGD/3501 "Enhance aquaculture production for food security and rural development in Bangladesh through better seed and feed production and management with special focus on public-private partnerships".

Information: M. Hasan

**Bahrain** – FAO has fielded an expert aquaculture engineer to assist the National Mariculture Centre in designing upgraded water supply and treatment systems for the Centre.

Information: D. Currie

- **East Africa** - GCP/SFE/001/MUL: “Promoting Agricultural Diversification to Reduce Poverty, Fight Malnutrition and Enhance Youth Employment Opportunities in Eastern Africa”. FAO is involved in a project funded by the African Solidarity Trust Fund (ASTF), a mechanism by African’s for Africans, in Burundi, Kenya, Rwanda and Uganda. The project has two sectoral components, i.e. poultry and aquaculture. The aquaculture development component will be implemented in Kenya and Uganda and it is expected to be up-scaled in other countries based on the results achieved and lessons learnt.

Information: A. Menezes

- **Indonesia** - TCP/INS/3402 “Development of preventive aquatic animal health protection plan and enhancing emergency response capacities to shrimp disease outbreaks in Indonesia”.

Information: M. Reantaso

- **Kyrgyzstan** - TCP/KYR/3502 “Enhance aquaculture production for food security and rural development through improved feed value chain, production and use”.

Information: M. Hasan

- **Rwanda** - TCP/RWA/3501 “Enhance the development of commercial aquaculture in Rwanda”. This project focuses on key aquaculture market failures that have hampered the development of the sector in most Sub-Saharan Africa and mainly addresses issues of feed and seed, as well as extending technical knowledge on capacity building of farmers and government officers on aquaculture as business, site selection, pond design/construction, and establishment of aquaculture cooperatives to revitalize and boost Rwanda’s aquaculture sector.

Information: A. Menezes

- **Senegal** - TCP/SEN/3305 “Support on enhancing input production capacity for a sustainable development of freshwater aquaculture” and TCP/SEN/3307 “Support on enhancing input production capacity for a sustainable development of brackish water aquaculture” in Senegal accomplished encouraging achievements. The two projects established four public hatcheries, four private fingerling-producing small- and medium-scale enterprises (SME), 42 grow-out SME in ponds capable of producing about 355 tonnes of fish annually.

Information: N. Hishamunda

- **Sri Lanka** - TCP/SLR/3502 “Improving Asian seabass or barramundi (*Lates calcarifer*) aquaculture in Sri Lanka through better feed and health management”.

Information: M. Hasan

- **The Philippines** - TCP/PHI/3404 “Improvement of feeding and feed management efficiency in aquaculture production in the Philippines”.



Information: M. Hasan

- **United Arab Emirates** – FAO is carrying out a study for the Abu Dhabi Food Control Authority (ADFCA) to identify potential aquaculture activities for farmers whose ground water has become salinized, and made their agriculture farming uneconomic.

Information: D. Currie 


- **Zambia** - TCPf/ZAM/3402. The goal of this project was to update the National Aquaculture Development Strategy and Plan of Zambia. FAO is assisting in enhancing farmers' capacity through hands-on, on-farm training. The expected Strategy and Plan shall indicate ways and means of better addressing these challenges.

Information: N. Hishamunda 

- **Zanzibar** - Creating synergies with technical support to the aquaculture strategy and small aqua-business enterprise (TCP/URT/3401) with the Ministry of Livestock and Fisheries of the Revolutionary Government of Zanzibar; the first phase focuses on a mariculture hatchery project "A Basic Design Survey to set up a Mariculture Hatchery in Zanzibar" (GCP/URT/143/ROK) is running from December 2014 until June 2015. This trust fund project is funded by the Korean International Cooperation Agency and is aimed to lead to the development of a public-private mariculture hatchery with production targeted at identified markets. An operational hatchery will foster opportunities for outgrower schemes between the hatchery and existing farmers in Zanzibar and will also create opportunities for the State University of Zanzibar to conduct research in aquaculture.

Information: A. Harris  and V. Schmidt 

- **Zanzibar** - support the FAO project on "Support to the Aquaculture Subsector of Zanzibar (TCP/URT/3401)". FAO conducted two training workshops on the ecosystem approach to aquaculture (EAA) and spatial planning respectively. Both workshops were hosted by the Ministry of Livestock and Fisheries (MLF) and included 34 participants.

Information: D. Soto  and J. Aguilar Manjarrez 

### Aquaculture events (2014)

- The **Ninth Session of the General Fisheries Commission for the Mediterranean (GFCM) Committee on Aquaculture (CAQ)** was held in Marrakech, Morocco 24-26 February 2015. The session which is held on a biannual basis, was attended by 13 Commission Members and by the observers from other International Organization and representatives of FAO and the GFCM Secretariat. CAQ discussed and endorsed the work plan and budget for 2015-2016 and presented the achievements undertaken since the Eight Session of the Committee.

Information: F. Massa 

- The **Third Meeting of the Technical Advisory Committee (TAC)** of the Central Asian and Caucasus Regional Fisheries and Aquaculture Commission (CACFish) was held in Bishkek, Kyrgyz Republic on 16–18 February 2015. The Meeting was attended by representatives of five CACFish Members, namely Armenia, Azerbaijan, Kyrgyzstan,

Tajikistan and Turkey. The session was also attended by the following invited non-CACFish Member States: Georgia, Kazakhstan, and Uzbekistan.

- The **Regional Workshop on Improving Aquatic Animal Health (AAH) Management and Strengthening Biosecurity Governance in Africa** was held in Durban, South Africa, 5-7 November 2014; there were 117 participants from 27 countries. This workshop was organized by FAO officers in Pretoria led by FAO Representative in Zambia, Dr Tobias and his team; funding came from the FAO/DAFF UTF on Capacity Building (with a small component on AAH) and partly from WTO/STDF project preparation grant and EU administered by AU/IBAR. There were two objectives of this workshop: (1) development of SADC Biosecurity/AAH Strategy; and (2) Way Forward for the TILAPIA Project (Trade and Improved Livelihoods in Aquatic Production in Africa).

Information: M. Reantaso 

- The **Regional Workshop on Inland Fish Hatchery Management** held in Bishkek, Kyrgyz Republic from 27 to 30 October 2014. The workshop was organized under the 2014 Work Programme of Technical Advisory Committee (TAC) of the Central Asian and Caucasus Fisheries and Aquaculture Commission (CACFish). The main subjects covered by the workshop were as follows: (i) Overview of inland fish hatchery management in the participated countries; (ii) Basics of inland fish hatchery management operations (site selection; hatchery design criteria, fish stocking; (iii) Broodstock management, etc.); (iv) Hatchery production of trout, pike perch, European catfish and carps as well as coregonid fish (fish propagation; larval feeding and rearing; and hatchery production systems).

Information: T. Moth-Poulsen  and H. Fersoy 

- The **Sixth Annual meeting of the Regional Commission for Fisheries (RECOFI) Working Group on Aquaculture (WGA)** was held in Muscat, Oman 21-23 October 2014. The WGA discussed and proposed work programme and budget for 2015 and among the main priorities identified for the region it was decided to: (i) revise the contents and enhance the structure of the **Regional Aquaculture Information System (RAIS)**; (ii) organize a workshop on GIS applications to aquaculture; (iii) organize a regional training on risk analysis (aquatic animal health) focusing on the prevention of the Early Mortality Syndrome (EMS) disease in shrimp; (iv) and conduct a regional hands-on training on aquaponics in Oman.

Information: A. Lovatelli 

### EU funded projects

- **Scotland** - kick-off meeting for Horizon 2020 project in which FAO is participating entitled "Ecosystem Approach to making Space for Aquaculture" (AquaSpace).

Information: J. Aguilar Manjarrez 

- **Ireland** - kick-off meeting for Horizon 2020 project in which FAO is participating entitled "Marine Investment for the Blue Economy" (MARIBE).

Information: J. Aguilar Manjarrez

## Upcoming Aquaculture and Aquaculture-related Events (2015)

- The **8th Session of Regional Commission for Fisheries (RECOFI)** will be held in Muscat, Sultanate of Oman, 12-14 May 2015

Information: P. Mannini

- The **6th Offshore Mariculture Conference** will take place at Ensenada, Baja California, Mexico in 2015 (exact date to be decided, most likely September). This international technical conference will focus on practical solutions and development opportunities around offshore farming in Mexico. It will include the latest legislation, investment and financing opportunities together with the day to day practicalities of running an offshore business. FAO will be organizing a special session at the conference with 5-6 speakers as an integral part of the conference programme. This particular session will be open to all interested parties at no cost.

Information: J. Aguilar Manjarrez  and A. Lovatelli

- The **8th Session of the Committee on Fisheries (COFI) Sub-Committee on Aquaculture** will be held in Brasilia, Brazil from the 5 to 9 October 2015
- Project Terminal Workshop: FAO TCP/RER/3402 **“Assistance to Western Balkan Countries for Improving Compliance to International Standards on Aquatic Animal Health”**, Sarajevo, Bosnia and Herzegovina, 7-9 April 2015.

Information: M. Reantaso

- FAO TCP/INS/3402 **“Development of preventive aquatic animal health protection plan and enhancing emergency response capacities to shrimp disease outbreaks in Indonesia”** back-to-back workshops in Jakarta, Indonesia.

Information: M. Reantaso

- Surveillance and Data Analysis Workshop (6-7 May 2015)
- Emergency Preparedness Field Simulation Exercise (8-9 May 2015)
- National Workshop (11 May 2015)
- Project Terminal Workshop (12 May 2015)

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