



Food and Agriculture Organization
of the United Nations

Fisheries and Aquaculture Department FAO Aquaculture e-Bulletin

May 2017

Welcome to this May 2017 edition of the **FAO Aquaculture e-bulletin** covering our most recent news, publications, technical workshops and projects for the period **November 2016 to end of April 2017**. We hope that this information can be also useful to you in your own aquaculture work.

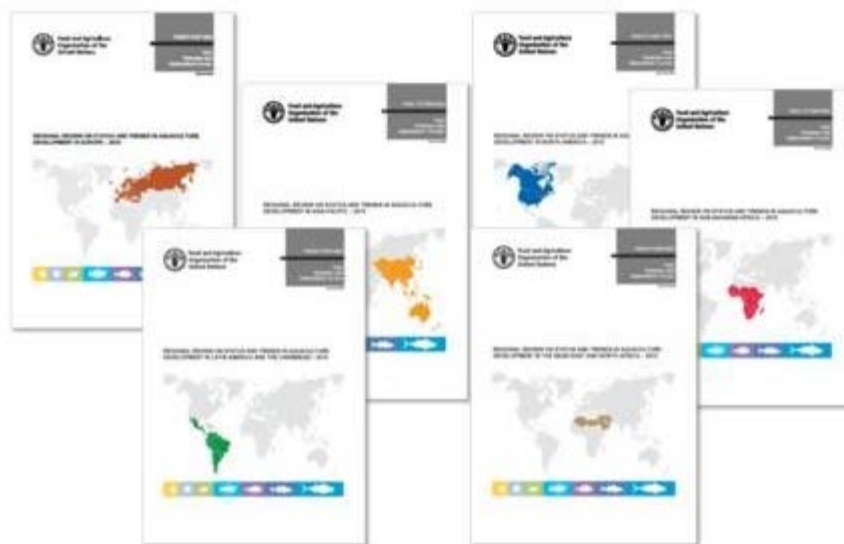
This newsletter presents just a selection of what we do and we encourage you to visit our website www.fao.org/fishery/aquaculture to find out more or to contact by e-mail the officers of the FAO Fisheries and Aquaculture Department's Aquaculture Branch (FIAA) responsible for the various activities.

Highlights

- The Aquaculture Branch of the FAO Fisheries and Aquaculture Department has published the **FAO Aquaculture Newsletter (FAN) 56**. FAN is issued two times a year. It presents articles and views from the FAO aquaculture programme and highlights various aspects of aquaculture as seen from the perspective of both headquarters and the regional and subregional offices in the field.




Information: V. Crespi 

- The Fisheries and Aquaculture Department of FAO is pleased to announce the publication of new technical documents on aquaculture, which are of global relevance, namely:
Six **Regional Reviews of Aquaculture Development, Status and Trends**.



In continuing the global efforts to achieve aquaculture sustainability through dissemination of up-to-date information on the status and trends of the sector, FAO has published six Aquaculture Regional Reviews. These reviews can be of interest and pertinent use to national governments, regional organizations, policy-makers, farmers, investors, civil society organizations, research and training institutions and the general public.

Publications

- **Aguilar-Manjarrez, J., Soto, D. & Brummett, R.** 2017. **Aquaculture zoning, site selection and area management under the ecosystem approach to aquaculture. A handbook.** Report ACS18071. Rome, FAO, and World Bank Group, Washington, DC. 62 pp.
Information: J. Aguilar Manjarrez 
- **Aguilar-Manjarrez, J., Soto, D. & Brummett, R.** 2017. **Aquaculture zoning, site selection and area management under the ecosystem approach to aquaculture.** *Full document.* Report ACS113536. Rome, FAO, and World Bank Group, Washington, DC. 395 pp.
Information: J. Aguilar Manjarrez 
- **Meaden, G.J., Aguilar-Manjarrez, J., Corner, R.A., O'Hagan, A.M. & Cardia, F.** 2016. **Marine spatial planning for enhanced fisheries and aquaculture sustainability – its application in the Near East.** FAO Fisheries and Aquaculture Technical Paper No. 604. Rome, FAO.
Information: J. Aguilar Manjarrez 
- **Cardia F. & Lovatelli A.** 2015 Aquaculture operations in floating HDPE cages: a field handbook. FAO Fisheries and Aquaculture Technical Paper. No. 593. Rome, FAO. (**English - Arabic**)
Information: A. Lovatelli 
- **FAO.** 2016. **Regional Review on Status and Trends in Aquaculture Development in**

Asia-Pacific – 2015, by Rohana Subasinghe. FAO Fisheries and Aquaculture Circular No. 1135/5. Rome, Italy.

Information: M. Beveridge

- **FAO. 2017. Regional review on status and trends in aquaculture development in Europe – 2015**, by Roy Clarke and John Bostock. FAO Fisheries and Aquaculture Circular No. 1135/1. Rome, Italy.
Information: M. Beveridge
- **FAO. 2017. Regional review on status and trends in aquaculture development in North America – 2015**, by Brian Harvey. FAO Fisheries and Aquaculture Circular No. 1135/2. Rome, Italy.
Information: M. Beveridge
- **FAO. 2017. Regional review on status and trends in aquaculture development in Latin America and the Caribbean – 2015**, by Carlos Wurmman G. FAO Fisheries and Aquaculture Circular No. 1135/3. Rome, Italy.
Information: M. Beveridge
- **FAO. 2017. Regional review on status and trends in aquaculture development in the Near East and North Africa – 2015**, by Abdel-Fattah M. El-Sayed. FAO Fisheries and Aquaculture Circular No. 1135/6. Rome, Italy.
Information: M. Beveridge
- **FAO. 2017. Regional review on status and trends in aquaculture development in sub-Saharan Africa – 2015**, by Benedict P. Satia. FAO Fisheries and Aquaculture Circular No. 1135/4. Rome, Italy.
Information: M. Beveridge
- **FAO. 2017. Report of the International Emergency Fish Disease Investigation Mission on a Suspected Outbreak of Epizootic Ulcerative Syndrome (EUS) in the Democratic Republic of Congo, 13–19 March 2015.**
Information: M. Reantaso
- **FAO. 2017. Regional Conference “Blue Growth in the Mediterranean and the Black Sea: developing sustainable aquaculture for food security”** Massa, F., Rigillo, R., Bourdenet, D., Fezzardi, D., Nastasi, A., Rizzotti, H., Emam, W. & Carmignac, C. 9–11 December 2014, Bari, Italy FAO Fisheries and Aquaculture Proceedings No. 46. Rome. (En and Fr)
Information: D. Bourdenet
- **FAO. 2016. Report of the FAO workshop launching the Blue Growth Initiative and implementing an ecosystem approach to aquaculture in Kenya, Mombasa, Kenya, 27-31 July 2015.** FAO Fisheries and Aquaculture Report No. 1145. Rome, Italy.
Information: A. Menezes
- **FAO. 2017. Report of the Sixth Aquaculture Network for Africa (ANAF) Annual Meeting, Entebbe, Uganda, 6 to 9 December 2016.** FAO Fisheries and Aquaculture Report. No 1187 Rome, Italy.



Information: V. Crespi

- **FAO. 2017. Foro Sub-Regional sobre la Inclusión del pescado en la alimentación escolar: Generando una estrategia multisectorial para los países de América Central (Sub-regional Forum on the inclusion of fish in school feeding programs: formulating a multi-sectorial strategy for Central American countries).** Panama City, Panama, 15 November, 2016.

Information: A. Flores

- **FAO. 2016. Report of the knowledge exchange on the promotion of efficient rice farming practices, Farmer Field School curriculum development, and value chains.** Yogyakarta, Indonesia, 26–29 September 2016. FAO Fisheries and Aquaculture Report No. 1181. Rome, Italy.

Information: M. Halwart

- **FAO. 2016. Aquaculture insurance in Viet Nam: Experiences from the pilot programme,** by Kim Anh Thi Nguyen and Tipparat Pongthanapanich. FAO Fisheries and Aquaculture Circular No. 1133. Rome, Italy.

Information: T. Pongthanapanich

- **FAO. 2017. Report of the workshop on development of aquaculture insurance system for small-scale farmers, Bangkok, Thailand, 20–21 September 2016.** FAO Fisheries and Aquaculture Report No. 1177. Rome, Italy.

Information: T. Pongthanapanich

- **FAO & World Bank. 2015. Aquaculture zoning, site selection and area management under the ecosystem approach to aquaculture. Policy brief.** Rome, FAO. **(English, French, Spanish, Chinese)**

Information: J. Aguilar Manjarrez

- **Cardia F., Ciattaglia A. & Corner R.A.** Guidelines and Criteria on Technical and Environmental Aspects of Cage Aquaculture Site Selection in the Kingdom of Saudi Arabia (publication of the UTF/SAU/048/SAU project) **(English, Arabic)**

Information: F. Cardia

- **Corner R.A. Guidelines on Environmental Monitoring for Cage Aquaculture within the Kingdom of Saudi Arabia** (publication of the UTF/SAU/048/SAU project)

Information: F. Cardia

- **Ciattaglia, A. Feasibility Study Model for Cage Farming Business of Small-Medium Size** (publication of the UTF/SAU/048/SAU project)

Information: F. Cardia

- **Saunders, J., Cardia, F., Hazzaa, M.S., Rasem., B.M., Othaibi, M.I. & Rafiq, M.B. Atlas of potential areas for cage aquaculture Red Sea - Kingdom Of Saudi Arabia** (publication in English and Arabic of the UTF/SAU/048/SAU project)




Information: F. Cardia



Web-based products

- The **National Aquaculture Sector Overview (NASO)** collection has been improved with the updated version of 7 Fact Sheets: **Croatia, Cyprus, Malta, Montenegro, Oman, Slovenia**, and **Spain**.
- The **National Aquaculture Sector Overview (NASO) Maps** collection has recently released maps for **Angola, Costa Rica, Oman** and the **United Arab Emirates**.

Projects

- The inception meetings for the project titled: **“Use of non-conventional water in agriculture in support to sustainable agri-aquaculture development in desert and arid lands in the Near East and North Africa region, the cases of Algeria, Egypt and Oman”** within the framework of FAO Water Scarcity Initiative, were held in Muscat, Oman the 6-7 March 2017, in Alger, Algeria the 22-23 March 2017, and in Cairo, Egypt the 29 March 2017. The three selected countries will carry out a national assessment of the use of non-conventional water for agri-aquaculture production systems in arid lands that will be presented and discussed during a regional workshop to be held by the end of 2017. Information: V. Crespi 
- The inception workshop for the project titled **“Appréciation de l’action globale et des réalisations sectorielles de l’Agence Nationale pour le développement de l’Aquaculture (ANDA) et appui à l’élaboration d’une stratégie pour le développement de l’aquaculture au Maroc”** was held in Rabat, Morocco the 29 March 2017. The project will support the National Agency in charge of Aquaculture development in assessing its achievements during its first five years of operation and to establish a road map for implementing a new strategy for aquaculture development. Information: L. Dabbadie 
- The **Stakeholder’s Inception Workshop on Fish Loss and Waste in Egypt**, was held in Alexandria, Egypt the 11-12 April 2017. A clear action plan and priority areas were developed on consultation with all the actors. Field studies in the selected areas will be carried-on, a draft National Strategy will be developed, and both will be presented and finalized during the final workshop at the end of 2017. Information: P. Anton 

Aquaculture events (2017)

- **Terminal workshop of TCP/BGD/3501 “Enhancing aquaculture production for food security and rural development through better seed and feed production and management with special focus on public-private partnership”**. Dhaka, Bangladesh, 31 January 2017.

Information: M. Hasan

- **Stakeholder/ Inception Workshop of TCP/INS/3603/C1 “Preparation of full TCP Project supporting local feed self-sufficiency for inland aquaculture development in Indonesia”.** Jakarta, Indonesia, 18 January 2017.

Information: W. Miao

- **Inception Workshop of TCP/MYA/3606 “Improvement of tilapia seed production and grow-out culture management in Myanmar”.** Nay Pyi Taw, Myanmar, 28 February 2017.

Information: W. Miao

- **Signing Ceremony of GCP/MYA/020/LDF “Strengthening the adaptive capacity and resilience of fisheries and aquaculture-dependent livelihoods in Myanmar”.** Nay Pyi Taw, Myanmar, 1 March 2017.

Information: W. Miao

- **Training module on the ecosystem approach to aquaculture and spatial planning for aquaculture** conducted by the Aquaculture Branch as part of the international training course “Responsible Aquaculture Development for Food Security and Economic Progress” organized by Wageningen University and Research, Centre for Development Innovation (CDI) and held in Wageningen, the Netherlands from 1-3 March 2017.

Information: J. Aguilar Manjarrez

- **Regional Consultation on Responsible Production and Use of Feed and Feed Ingredients for Sustainable Growth of Aquaculture in Asia-Pacific.** Bangkok, Thailand, 7-9 March 2017.

Information: W. Miao

- **Terminal Workshop of TCP TCP/KYR/3502: Enhancing aquaculture production for food security and rural development through improved feed value chain, production and use.** Bishkek, Kyrgyzstan, 23 March 2017.

Information: M. Hasan

- **TCP/PLW/3601/C1: Strengthening Biosecurity Capacity of Palau: Training Course on Biosecurity Database Development.** Koror, Palau, 24-27 March 2017.

Information: M. Reantaso

- **TCP/PLW/3601/C1: Strengthening Biosecurity Capacity of Palau: National Workshop.** Koror, Palau, 28 March 2017.

Information: M. Reantaso

- **Tenth Session of the Scientific Advisory Committee on Aquaculture (CAQ) of the General Fisheries Commission for the Mediterranean.** Izmir, Turkey, 27-29 March 2017.

Information: F. Massa

- **Driving African Fisheries to sustained growth conference, Build on the achievements of the SmartFish Programme.** Nairobi, Kenya, 3-6 April 2017.

Information: C. Bodiguel

Validation Workshop of TCP/INS/3603/C1 “Preparation of full TCP Project supporting local feed self-sufficiency for inland aquaculture development in Indonesia”. Jakarta, Indonesia, 6 April 2017.

Information: W. Miao

- **FAO Write-Shop Part 2: Responsible Management of Bacterial Diseases in Aquaculture.** Mangalore, India, 6-8 April 2017.

Information: M. Reantaso

- **FMM/RAS/298/MUL: Strengthening capacities, policies and national action plans on prudent and responsible use of antimicrobials in fisheries: Workshop 1.**

Mangalore, India, 10-12 April 2017.

Information: M. Reantaso

- **Inception Workshop of TCP/TAJ/3601/C1: Restarting and modernization of fish seed production in Tajikistan.** Dushanbe, Tajikistan, 25-26 April 2017.

Information: M. Hasan

Upcoming Aquaculture and Aquaculture-related Events (2017)

- **TCP/INT/3501: Strengthening biosecurity governance and capacities for dealing with the serious shrimp infectious myonecrosis virus (IMNV) disease: Second Inter-regional Workshop.** Natal, Brasil, 2-5 May 2017.

Information: M. Reantaso

- **Seventeenth Session of the Committee for Inland Fisheries and Aquaculture of Africa (CIFAA).** Banjul, the Gambia, 9-11 May 2017.

Information: N. Gueye

- **Tenth Session of the Regional Commission for Fisheries (RECOFI).** Kuwait, Kuwait, 9-11 May 2017.

Information: H. Fersoy

- **FMM/RAS/298/MUL: Strengthening capacities, policies and national action plans on prudent and responsible use of antimicrobials in fisheries: Workshop 2.** Kuala Lumpur Malaysia, 1-4 August 2017.

Information: M. Reantaso

- **TCP/INT/3501: Strengthening biosecurity governance and capacities for dealing with the serious shrimp infectious myonecrosis virus (IMNV) disease: Third Inter-regional Workshop.** Bali, Indonesia, 4-7 September 2017.

Information: M. Reantaso

- **Sixteenth Session of the Committee on Fisheries (COFI) Sub-Committee on Fish Trade.** Busan, Republic of Korea, 4-8 September 2017.

Information: A. Lem

- **Ninth Session of the Committee on Fisheries (COFI) Sub-Committee on Aquaculture.** Tehran, Islamic Republic of Iran, 23-26 October 2017.

Information: M. Halwart 

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