



MARINE SCIENCE VIDEOS

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More and more research work on marine environment is based on the analysis of imagery data. Thanks to technological development, we can now monitor ocean ecosystems using video cameras deployed on different platforms. The information contained in those images is essential to understand species biology, geological features and the functioning of these ecosystems, and ultimately inform environmental management policies. Because of the video data specificity (volumes, formats, diffusion) a dedicated system has to be proposed for displaying and making accessible this huge archive of imagery, still growing every day.

Images (Video, Photo) & Sensor data production

video.ifremer.fr

Metadata Banking

Video Transcoding

Sensor & Imagery Data Integration

Data Diffusion & Request

- SEALOG software for operational data collection

- Process parallelisation (ffmpeg) on calculator
- 3 resolutions (LD, MD, HD) in MP4 (H264)

- Java batch
- Linking images with navigation and environmental parameters

- Full text, Advanced and Geographical search based on SolR and Oracle technologies

The screenshot displays the 'Marine Science Videos' web application. On the left, there's a sidebar with filters for 'GEOGRAPHICAL ZONE', 'YEAR', 'SOURCE', and 'EQUIPMENT'. The main area shows a grid of video thumbnails. A central video player is active, showing an underwater scene. Below the player, there's a metadata table:

INFORMATIONS	NAVIGATION	CAPTEUR	CTD/SONDE
Campagne: MCOMSAT2011	Latitude: N37°17'20.80"	Rouls: -0.6	Temp: -
Nature: Plaque Plaf	Longitude: W02°16'32.37"	Targage: -0.7	Salinité: -
Engin: VIDEOS	Interassez: 1685.1m	Vy: 0.2	Temp.Sonde: -
Plongée: n°481714 Orléan n°9006	Altitude: 6.6 m	Vx: 0.0	Pan: -0.13
Camera: Incubation Plote	Cap: 112.8°	Tit: -22.87°	
Début: 2011-07-21 03:41:52		Focus: 999.90	
Fin: 2011-07-21 04:20:30			

Below the metadata, there's a 'Vidéos Associées' section and a 'Request for High definition version from Video n°10680' form with fields for Email and Message.

Ifremer

SISMER

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