

# ALESSANDRO LUCCHETTI

## PERSONAL DATA

Citizenship: Italian

Place and date of birth: Ancona (Italy) Novembre 17<sup>th</sup>, 1973

Marital status: Unmarried

Residence: Via Lattanzi B n.24, 60020 Agugliano (An – Italy)

Telephone number: +39 071 2078828

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E-mail: a.lucchetti@ismar.cnr.it

Scientific degree: Master degree

## SKILLS

- Fishing gear technology
- Fisheries ecology and management of the resources
- Selectivity of the fishing gears
- Impact of fishing gears of the seabed communities: bycatch and discard
- National and European legislation on fishing gears: support to National fishery inspector
- Physical and mechanical properties of fishing netting materials
- Evolution of the fish assemblage around artificial structures (artificial reefs and gas-oil platforms)
- Biology, fishing and properties of the main commercial species
- Statistical analysis of fishing data

### COMPUTER SKILLS:

Excellent knowledge of office

Excellent knowledge of Statistics Software (SPSS, GPower, Sample Power).

Good knowledge of Software INSTRON IX for the determination of the physical property of the netting materials with dynamometer INSTRON 4505.

Excellent knowledge of Software for the study of selectivity of trawl nets (CONSTAT, CC 2000, EC model).

Good knowledge of Software for the analysis of geographic data (GIS Arcview).

### LANGUAGE SKILLS:

Italian: mother tongue

English and French: good

## STUDIES

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| 2005 | Winner of the PhD in Biology and Marine Ecology at the Polytechnic University of the Marche.      |
| 2002 | Attainment of the qualification for the profession of biologist with full marks (marks: 150/150). |

Conseguimento dell'abilitazione alla professione di Biologo con votazione 150/150.

- 1998-99 Training course post-lauream at the Artificial Reefs and Aquaculture department of IRPEM – CNR of Ancona.
- Tirocinio post-lauream della durata di un anno presso il reparto “Maricoltura e Barriere Artificiali” dell’IRPEM (Istituto di Ricerche sulla Pesca Marittima): “Analisi del benthos insediato su substrati artificiali”.
- 1998 Master degree in Mathematical, Physical and Natural Sciences (5 years degree) with a specialisation on Marine Biology and Oceanography from the University of Ancona. Graduated with full marks (110/110) discussing the final dissertation “Study on feeding of *Sciaena umbra* L. close to an artificial reef in the central Adriatic sea” carried out under the supervision of Dr. Gianna Fabi at the department of Artificial Reefs and Aquaculture of IRPEM – CNR of Ancona (Italy). 1998
- Conseguimento della Laurea quinquennale in Scienze Biologiche con indirizzo Marino ed Oceanografico conseguita presso l’Università di ANCONA in data 11/03/1998, voti di 110/110, con la discussione di una Tesi sperimentale svolta presso il Reparto Maricoltura e Barriere Artificiali dell’IRPEM-CNR di Ancona, intitolata “Studio sull'alimentazione di *Sciaena umbra* L. in prossimità di una barriera artificiale del Medio Adriatico”.
- 1992 Attainment of the diploma of Scientific Maturity from the Scientific Grammar school L. di Savoia of Ancona, in scholastic year 1991-92 with the 45/60 ballot.

## EXPERIENCE:

### 1 - TYPE OF CONTRACTS WITH THE NATIONAL RESEARCH COUNCIL

- 1999 Contract of professional collaboration with the department of Artificial Reefs and Aquaculture of IRPEM – CNR of Ancona for "Fishing trials with trammel nets near gas-platforms AGIP Regina and Annalisa, analysis of the capture and data input".
- 1999 Winner of the Scholarship n. 126.30.BS.1 conferred by the National Council of Research (CNR) on the theme: "Analysis of the catch of *Sepia officinalis* with three different passive gears (trammel net, pot and fike net) in the Central Adriatic sea".
- 2000 Winner of the Research Contract n. 126.30.AS.5 conferred by the National Council of Research (CNR) on the theme "Study of the evolution of the fish populations around artificial structures through trammel net samplings".
- 2003 Contract of scientific collaboration with the department of Fishing technology of ISMAR – CNR of Ancona (Institute of Marine Sciences) on the Research Project “Development of predictive model of cod-end selectivity (Premecs II)” (UE, 2002-2005) for "the statistics elaboration of data regarding the selectivity of the bottom trawl nets and the determination of the physical property of the materials used for the nets".
- 2004 Contract of scientific collaboration with department of Fishing technology of ISMAR – CNR of Ancona (Institute of Marine Sciences) on the Research Project "Selectivity of the bottom trawl hunged with diamond and square mesh cod-end" (MIPAF, 2003-2004) for "the determination of the dynamic characteristics (breaking load-elongation in dry and wet state) of the diamond and square mesh netting employed for the construction of cod-ends and for the trials aimed to the analysis of selectivity on three commercial species: *Merluccius merluccius*, *Mullus barbatus*, *Eledone cirrhosa*. Analyses of biological and technological data".
- 2004-06 Winner of the Research Contract n. 126.298/an-as.19 conferred by the National Council of Research (CNR) on the theme: "Reduction of by-catch in the Norway lobster fishery (*Nephrops norvegicus*) by the development and the test of an experimental trawl net".

2006-pres. Winner of the Research Contract n. 126.298.AS-17/ISMARAN AN conferred by the National Council of Research (CNR) on the theme: "Training for Officials and sub-officials of the Italian Coastal Guard on the control of fishing activity"

## 2 - PARTICIPATION TO RESEARCH PROJECTS

- "*Trammel and Gill Net Selectivity in the Adriatic and Tyrrhenian Sea*" (EC Study Contract 94/086; 1995-97).
- "*Study on the settlement and mariculture of bivalve the *Pholas dactylus* (Pholadidae) by means of artificial modules in compose-ash*" (1996-99) ).
- "*Evaluation of the efficacy of artificial structures on the Italian seas: study of the functioning of the artificial reefs through the trophic nets*" (1996-99)
- "*Study of the consequences of the "mucilage" on the fishing activity in the Central Adriatic sea*" (MIPA, 1998);
- "*Study for the integrated management, protection and valorisation of Marche's coastal areas*" (A.S.Pe.A., Special Company Fishery and Agriculture of the C.C.I.A. of Ancona, 1998).
- "*Fishing gears of the small scale artisanal fisheries used in function of the seasonal and eco-ethological stages of the fishes in two coastal areas (Northern Tyrrhenian and Central Adriatic seas)*" (MIPA, 1998-2000)
- "*Environmental monitoring of gas platform Regina*" (ENI S.p.A. – Divis. AGIP, 1998-2000).
- "*Environmental monitoring of gas platform Annalisa*" (ENI S.p.A. – Divis. AGIP, 1999-2000).
- "*Sepia officinalis: impact of three set gear fishing techniques in the Adriatic and the Ligurian sea*" (UE, 1999-2001);
- "*Study of the fishing effort applicable to an artificial reef in the Central Adriatic sea*" (MIPAF, 1999-2002).
- "*Preliminary Study for the institution of the Marine Park "Coast of the Conero Mount". Second phase*".
- "*Environmental monitoring of gas platform Barbara NW*" (ENI S.p.A. – Divis. AGIP, 2000-2003);
- "*Preliminary and further surveys to the realization of the artificial reef from Porto Recanati to Porto Potenza Picena*" (project FIG 20/BA/98);
- "*Study on the mixed-species catches of rapido trawl fisheries along the Italian coasts*" (UE, 2000-2002).
- "*Development of predictive model of cod-end selectivity (Premecs II)*" (UE, 2002-2005);
- "*Selectivity of the bottom trawl hunged with diamond and square mesh cod-end*" (MIPAF; 2003-2004);
- "*Influence of the mesh opening and circumference dimension on the selectivity of the Italian bottom trawl*" (MIPAF, 2003-2005);
- "*Nephrops and Cetacean species selection information and technology (Necessity)*" (UE 2004-2006);
- "*On the reduction of the environmental impact of trawl fishing activity: experimentation of the Twin trawls*" (FIG Marche 2005);

- “*Study of a experimental single boat pelagic trawl to reduce the impact of the pelagic fisheries and to enhance the safety onboard*” (FIFG Marche 2005);
- Scientific Responsible of the following Research Project: “*Commercial approach on the study of a square mesh cod-end to enhance the selectivity of the trawlers in the Marche Region*” (FIFG Marche 2005);
- “*Development of fishing Gears with Reduced Effects on the Environment (Degree)*” (UE, 2006-2008);
- “*Training for Officials and sub-officials of the Italian Coastal Guard on the control of fishing activity*” (2005-pres.);
- “*Improving assessment and management of small pelagics in the Mediterranean (Sardone)*” (UE, 2007-2009);
- “*TARTANET, a network for the conservation of turtles in Italy*” (Prog. LIFE NATURE, 2004-06);
- “*M.T.L.: Investigation on three species of the Middle Trophic level of the Ross sea (Antarctic krill, Ice krill, Silver fish) and their interactions with the species of the Top level (seabirds, whales, seals) and with habitat*” (PNRA, 2005-pres.);
- “*Development of an experimental basket collector for oyster-culture to reduce the fouling*” (FIFG Marche, 2006-07).

### 3 - TEACHING ACTIVITY

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| 1999-00    | Co-examiner in the thesis: “ <i>Analysis of catches of three fishing gears used in the Adriatic sea for Sepia officinalis Linneo, 1758</i> ”, carried out at the department of Artificial Reefs and Aquaculture of IRPEM – CNR of Ancona by Dr. Giuseppe Scarcella Degree in Biological Science, University of Ancona   |
| 2000-2001  | Co-examiner in the thesis: “ <i>The impact of a off-shore gas-platform on the original fish population (“Barbara NW”; Northern Adriatic sea)</i> ”, carried out at the department of Artificial Reefs and Aquaculture of IRPEM – CNR of Ancona by Dr. Lya Filipponi Degree in Biological Science, University of Ancona. |
| 2005-pres. | Responsible for teaching Italian Fisheries Inspectors (Italian Coast Guard) in different fishing systems and Italian and European legislation.  |

### 4 - CONFERENCE PARTICIPATION, SEMINARIES AND WORK GROUPS

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| 1999 | Participation to the Seventh International Conference on Artificial Reefs and Related Aquatic Habitats (CARAH). Sanremo (Italy), 7-11 October.                              |
| 2001 | Member of the Organizing Committee of 32° Conference SIBM (Italian Society of Marine Biology). Numana (Italy), 4-9 June.  |
| 2002 | Participation to the meeting: “ <i>Presence of bio-toxins –DSP- in mussels</i> ”. Ancona (Italy), 18 November.  |
| 2004 | Participation to the International Meeting of the “ <u>ICES Working Group on Fishing Technology and Fish Behaviour</u> ” (ICES FTFB WG). MIR Gdynia (Poland), April 20 – 23 |
| 2004 | Participation to the I Workshop ISMAR (Institute of Marine Science): “ <i>Carbon cycle and marine resources</i> ”. Rome, 10-11 May.   |
| 2005 | Participation to the International Meeting of the “ <u>ICES - FAO Working Group on Fishing Technology and Fish Behaviour</u> ” (ICES FTFB WG). Roma, 16 – 24 April.         |

Participation to the Working Group on standardization of selectivity methods applied to trawling in Mediterranean sea, GFCM Scientific Advisory Committee - Subcommittee on Stock Assessment (SCSA). Sète (France), 9 - 11 February.

Participation to the Scsa (Subcommittee on Stock Assessment) SAC-GFCM. Rome 26-30 September.

2006 Participation to the Advanced Seminar: "Technological advances in fishing gear for sustainable management". Zaragoza (Spain), 6-10 February.

Participation to the International Meeting of the "ICES - FAO Working Group on Fishing Technology and Fish Behaviour" (ICES FTFB WG) Izmir, Turkey 03– 07 April.

Participation all'ICES Symposium "Fishing technology in the 21<sup>st</sup> Century: Integrating Fishing and Ecosystem Conservation". Boston (USA), 30 October-03 November.

2007 Participation to the SCSA/SCESS/SCSI *Transversal workshop on selectivity in the Mediterranean trawl fisheries*. Barcelona, Spain, 2-4 April 2007.

Participation to the Meeting of the "ICES - FAO Working Group on Fishing Technology and Fish Behaviour" (ICES FTFB WG), 23-27 April 2007, Dublin, Ireland.

Participation to the meeting of the Scientific, Technical and Economic Committee for Fisheries (STECF) SGMOS-07-06 "Main factors affecting codend selectivity", 11-15 June, Aberdeen (Scotland).

## 5 - OTHER INFORMATIONS

1997 Attainment of scuba diving licence "Open Water Diver" SSI n° 3139713549 granted by the underwater centre "Underwater Explorers Team di Osimo".

1997 Training course for voluntary ichthyic agent, authorized by Province of Ancona.

1998-2002 Associate of the Coop. "Mare ricerca (Sea Search)" Coop. a.r.l., Via Cialdini 76 - Ancona

2000-2006 Member of the Italian Society of Marine Biology (SIBM).

2002 Member of Cooperative society "*Adria consultans -atmosphere-health- alimentary resources*" Soc. Coop. a.r.l., via Einaudi10 – Ancona.

Collaboration with the review "Il Pesce" (The Fish) for articles concerning the fish biology and fishing activity.

2002-pres. Collaboration as marine Biologist with the General Association Italian Cooperatives

2003-pres. Member of Eco-Ethics International Union.

2007 Collaboration with the Diving MARLIN for the monitoring of the Marin Protected Areas of the Tremiti islands.

## PUBLICATIONS

- Fabi G., Grati F., **Lucchetti** A., Trovarelli L. 2002. Evolution of the fish assemblage around a gas platform in the northern Adriatic sea. *ICES Journal of Marine Science*, **59**: 309-315.

- Sala A., **Lucchetti** A., Buglioni G. 2004. The change in physical properties of some nylon (PA) netting samples before and after use. *Fisheries Research*., **69**: 181-188.

- Sala A., **Lucchetti** A., Buglioni G. 2007. The influence of twine thickness on the size selectivity of polyamide codends in a Mediterranean bottom trawl. *Fisheries Research*., **83**: 192-203.

- A. Sala, F. G. O'Neill, G. Buglioni, A. **Lucchetti**, V. Palumbo, and R. J. Fryer. 2007. Experimental method for quantifying resistance to the opening of netting panels. *ICES Journal Of Marine Science*. doi: 10.1093/icesjms/fsm113.

- Grilli R., **Lucchetti** A., Palumbo V., Sala A. 2007. Prodotto per la pesca a strascico con bocca a telaio rigido e con catene per la pesca di fondo. Brevetto depositato in data 15/05/2007. Modello di utilità N° MC20070000024.
- Sala A., O'Neill F.G., Buglioni G., Cosimi G., Palumbo V., **Lucchetti** A. 2004. Development of an experimental method for quantifying the resistance to opening of netting panels. Report of the ICES-FAO Working Group on Fishing Technology and Fish Behaviour (WGFTFB). 20-23 April 2004, Gdynia, Poland. ICES CM 2004/B:05, Ref. ACE: 189 pp.
- Sala, A., Piccinetti, C., Ferretti, M., Buglioni, G., **Lucchetti**, A., Palumbo, V., Ungaro, N. 2005. Selectivity comparison of diamond and square mesh codends of Mediterranean bottom trawl. Report of the ICES-FAO Working Group on Fishing Technology and Fish Behaviour (WGFTFB). 18-22 April 2005, Rome. ICES CM 2005/B:04.
- Antonello Sala, Gabriele Buglioni, Alessandro **Lucchetti**, Vito Palumbo. 2006. The influence of some netting material properties on PA codend size selectivity of Mediterranean bottom trawl. Report of the ICES-FAO Working Group on Fishing Technology and Fish Behaviour (WGFTFB). 3-7 April 2006, Izmir, Turkey. ICES CM 2006/FTC:06, REF. ACFM.
- **Lucchetti** A., Sala A. 2007. Review of the fishing gear management measures in the Mediterranean Sea. Report of the ICES-FAO Working Group on Fish Technology and Fish Behaviour (WGFTFB). 23-27 April 2007 Dublin, Ireland. ICES CM 2007/FTC:06 Ref. ACFM.
- **Lucchetti** A. Sala A. 2007. Synopsis on Mediterranean gears legislation. Presentato al SCSA/SCESS/SCSI Transversal Workshop selectivity in the Mediterranean trawl fisheries Barcelona, Spain, 2-4 April 2007.
- Sala Antonello, **Lucchetti** Alessandro, De Carlo Francesco, Palumbo Vito. 2007. Critical review of selectivity studies for *Mullus barbatus* (Red mullet) and *Merluccius merluccius* (European hake) in Mediterranean trawl fisheries. Presentato al SCSA/SCESS/SCSI Transversal Workshop selectivity in the Mediterranean trawl fisheries Barcelona, Spain, 2-4 April 2007.
- **Lucchetti** A., Cosimi G., Palladino S. 2005. Problematrice attrezzi da pesca. *In*: Controllo dell'attività di pesca marittima. Dispensa per i seminari. Anno 2005 del CNR-ISMAR, Sezione Pesca Marittima – Ancona. 72 pp.
- Gramitto M., **Lucchetti** A. 2006. Controllo dell'attività di pesca marittima. Dispensa per i seminari condotti nell'ambito del progetto formativo per ufficiali e sottufficiali delle Capitanerie di porto. 102 pp.
- Fabi G., Filippini R., Grati F., **Lucchetti** A., Trovarelli L. 2001. Study on the fish assemblages around two off-shore gas platforms in the central Adriatic sea. OMC 2001 Proceedings. CD ROM. Bitservice, Ravenna.
- Sala A., Buglioni G., Cosimi G., **Lucchetti** A., Palumbo V. 2004. Poster - Sperimentazione di una rete a strascico con sacco a maglie armate al quadrato: risultati preliminari. I Workshop ISMAR "Ciclo del carbonio e risorse del mare". 10-11 maggio 2004, Roma.

**Lucchetti** A., Sala A., Synopsis on Mediterranean gears legislation. Presented to the SCSA/SCESS/SCSI Transversal workshop on selectivity in the Mediterranean trawl fisheries. Barcelona, Spain, 2-4 April 2007.

Fabi G., Camilletti E., Cicconi E., Luccarini F., **Lucchetti** A., Panfili M., Solustri C. 1998. Trophic role of the Cesano-Senigallia artificial reef for a few species. *Biol. Mar. Medit.*, 5 (3): 1812-1821.

Fabi G., Grati F., **Lucchetti** A., Scarcella G. 2001. Preliminary results on the catches of *Sepia officinalis* obtained with three set gears in the central Adriatic sea. *Biol. Mar. Medit.*, 8 (1): 660-664.

Scarcella G., Fabi G., Grati F., **Lucchetti** A. 2002. Factors affecting the entry of *Sepia officinalis* L. 1758 into traps. *Biol. Mar. Medit.*, 9 (1): 161-169.

Grati F., Fabi G., **Lucchetti** A., Consoli P. 2002. Analysis of the catches of *Solea vulgaris* Quensel, 1806 obtained with gillnets in the Northern Adriatic sea. *Biol. Mar. Medit.*, 9 (1): 153-160.

**Lucchetti** A. 2003. Artificial reefs on the management of coastal area. *The fish*: 61-66.

**Lucchetti** A. 2003. The importance of small scale fisheries on the management of the resources: the pots in the Adriatic. *The fish*: 97-101.

**Lucchetti** A. 2003. Biology, fisheries and fish consumption of the main commercial species: the Mutable nassa. *Nassarius mutabilis* (Linneo, 1758). *The fish*: 97-99.

**Lucchetti** A. 2003. Biology, fisheries and fish consumption of the main commercial species: the Common sole. *Solea vulgaris* (Quensel, 1806). *The fish*: 91-95.

**Lucchetti** A. 2003. Biology, fisheries and fish consumption of the main commercial species: the anchovy. *Engraulis encrasicolus* (Linneo, 1758). *The fish*: 91-95.

**Lucchetti** A. 2003. Biology, fisheries and fish consumption of the main commercial species: the Striped venus. *Chamelea gallina* (Linneo, 1758). *The fish*. 135-139.

**Lucchetti** A. 2004. Biology, fisheries and fish consumption of the main commercial species: the red mullet. *Mullus barbatus* (Linneo, 1758). *The fish*: 101-105.

**Lucchetti** A. 2004. Biology, fisheries and fish consumption of the main commercial species: the cuttlefish. *Sepia officinalis* (Linneo, 1758). *The fish*: 93-99.

**Lucchetti** A. 2004. Biology, fisheries and fish consumption of the main commercial species: the hake. *Merluccius merluccius* (Linneo, 1758). *The fish*: 79-85.

**Lucchetti** A. 2004. Biology, fisheries and fish consumption of the main commercial species: the mantis shrimp. *Squilla mantis* (Linneo, 1758). *The fish*: 79-83.

**Lucchetti** A. 2004. Biology, fisheries and fish consumption of the main commercial species: the Norway lobster. *Nephrops norvegicus* (Linneo, 1758). *The fish*: 71-75.

**Lucchetti** A. 2004. Biology, fisheries and fish consumption of the main commercial species: the mussel. *Mytilus galloprovincialis* (Lamarck, 1819). *The fish*: 63-71.

**Lucchetti** A. 2005. Biology, fisheries and fish consumption of the main commercial species: the Swordfish. *Xiphias gladius* (Linneo, 1758). *The fish*: 67-75.

**Lucchetti** A. 2005. Biology, fisheries and fish consumption of the main commercial species: the gilthead seabream. *Sparus auratus* (Linneo, 1758). *The fish*: 71-75.

**Lucchetti** A. 2005. Biology, fisheries and fish consumption of the main commercial species: the Atlantic Bluefin Tuna. *Thunnus thynnus* (Linneo, 1758). *The fish*: 95-103.

**Lucchetti** A. 2005. Biology, fisheries and fish consumption of the main commercial species: the tub gurnard. *Chelidonichthys lucernus* (Linneo, 1806). *The fish*. 71-75.

**Lucchetti** A. 2005. Biology, fisheries and fish consumption of the main commercial species: the atlantic bonito. *Sarda sarda* (Linneo, 1806). *The fish*. 89-93.

**Lucchetti** A. 2005. Biology, fisheries and fish consumption of the main commercial species: the Black scorpionfish. *Scorpaena porcus* (Linneo, 1806). *The fish*. 67-71.

**Lucchetti** A. 2006. Biology, fisheries and fish consumption of the main commercial species. Silver scabbardfish. *Lepidopus caudatus* (Euphrasen, 1788). *The fish*. 89-93.

**Lucchetti** A. 2006. Biology, fisheries and fish consumption of the main commercial species. The Caramote prawn. *Melicertus kerathurus* (Forsskal, 1755). *The fish*. 117-123.

**Lucchetti** A. 2006. Biology, fisheries and fish consumption of the main commercial species. The pink shrimp. *Parapenaeus longirostris* (Lucas, 1846). *The fish*. 103-107.

**Lucchetti A.** 2006. Biology, fisheries and fish consumption of the main commercial species. The angler fish. *Lophius piscatorius* (Linneo, 1758), *Lophius budegassa* (Spinola, 1807). *The fish*. 97-101.

**Lucchetti A.** 2006. Biology, fisheries and fish consumption of the main commercial species. The turbot. *Psetta maxima* (Linneo, 1758). *The fish*. 139-141.

**Lucchetti A.** 2006. Biology, fisheries and fish consumption of the main commercial species. The sardine. *Sardina pilcardus* (Walbaum, 1792). *The fish*. 142-147.

**Lucchetti A.** 2006. Biology, fisheries and fish consumption of the main commercial species. The common ray. *Raja spp.* *The fish*. 70-75.

**Lucchetti A.** 2006. Biology, fisheries and fish consumption of the main commercial species. The Jhon dory. *Zeus faber* (Linneo, 1758). *The fish*. in press.

## TECHNICAL REPORTS

Fabi G., De Ranieri S., **Lucchetti A.**, Solustri C. 1999. Environmental monitoring of gas platform Annalisa. 1<sup>st</sup> year monitoring. Final Report. Eni S.p.a. – Divis. AGIP. 59 pp.

Fabi G., De Ranieri S., Giampieri A., **Lucchetti A.**, Marini M. 2001. Environmental monitoring of gas platform Annalisa. 1<sup>st</sup> year monitoring. Final Report. Eni S.p.a. – Divis. AGIP. 115 pp.

Sala A., Buglioni G., **Lucchetti A.**, Premecs II. Development of predictive model of cod-end selectivity. II periodic report. (UE 2002-2005). 371 pp.

**Lucchetti A.** 2004. Descriptive elements of the sampling area in the two fishing trips of the PREMECS-II project. Bathymetric and sedimentological maps. Annex 12 to the report: II. Development of predictive model of cod-end selectivity. II periodic report. Pag. 369-372.

Sala A., O'Neill F.G., Buglioni G., Cosimi G., Palumbo V., **Lucchetti A.** 2004. Development of an experimental method for quantifying the resistance to opening of netting panels. Report of the ICES-FAO Working Group on Fishing Technology and Fish Behaviour (WGFTFB). ICES CM 2004/B:05, Ref. ACE: 189 pp.

Sala A., Buglioni G., **Lucchetti A.**, Cosimi G., Palumbo V. On the reduction of the environmental impact of trawl fishing activity: experimentation of the "Twin trawls" (FIFG Marche 2005): 95 pp.

**Lucchetti A.** Buglioni G., Sala A. 2006. Commercial approach on the study of a square mesh cod-end to enhance the selectivity of the trawlers in the Marche Region (FIFG Marche 2005). 46 pp.

Buglioni G., **Lucchetti A.**, Sala A. 2006. Study of a experimental single boat pelagic trawl to reduce the impact of the pelagic fisheries and to enhance the safety onboard" (FIFG Marche 2005).

## VIDEOS

**Lucchetti A.** 2005. Trawl fishery.

Morello B., **Lucchetti A.** 2005. Experimental creeling.

**Lucchetti A.** 2005. Selective square mesh codend. (EU project Necessity "Nephrops and Cetacean species selection information and technology")