中国水产科学研究院

南海水产研究所

South China Sea fisheries Institute, Chinese Academic Fishery Science Research

与时俱进 开拓创新



辉煌的历程

南海水产研究所于1953年在广州市正式成立(原名广东省人民政府农 林厅水产局水产研究所),经过半个世纪的建设,已发展成为南海区从事 湖帝亚热带水产基础与应用基础研究、水产高新农水研究和水产重大应用 技术研究的社会公益性和基础性国家政科学研究机构。

In 1953, South Chine Sea Fisheries Institute was founded in Guangzhou. After half century's building it has already developed into a non-commercial-elementary national research agency, which takes up tropical and subtropical fishery fundamental and applied fishery fundamental research, high-new fishery techniques search in South Chine Sea Area.





创新的科研 机 构

所內以有海洋海並消滅与補粉技术研究室。水产养殖和质假避与抛养殖技术研究室,营养与食品工程研究室,海洋 套堂生态环境与污染定控大术研究室、独业生物常当防治研究室。并设有灾场的建生生态环境直点开放平稳室、广东省 准型生态环境度点实验室、农业部建业环境及水产品质量监督检验测试中心(广州)、农业部建业环境品测中心南海区监 测断、农业船商版及建业病毒防治中心等。在广东省家训市和服务省三世市分别没有野外实验基础。

The institute consists of Marine Fishery Resources and Fishing Technique Division, Fishery Resources of Germplasm and Proliferation & Cultivation Division, Nutrition and Food Engineering Division, Marine Fishery Ecology Environment and Pollution Monitoring and Control Technique Division and Fishery Organism Diseases Control Division, As while, Key and Open Labory of Fishery Ecology Environment of Agriculture Ministry, Key Laboratory of Fishery Evology Environment of Guangdong Province, Fishery Evology Environment of Guangdong Province, Fishery Evologies Environment of Guangdong Province, Fishery Evologies Environment of Guangdong Province, Fishery Evologies Environment of Guangdong, South China Saa Are Monitoring Station of Agriculture Ministry Marine Fishery Environment Monitoring Center, Prevention and Control research Center of Marine Culture Organism Diseases in South China Sea of Agriculture Ministry are located in the institute. In additional, the institute settled two field experimental bases in Sharthen of Guangdong province and Sarrys of Halana province.

(国家"九五"攻关专题(96-008-03-04)南海区半封闭型海湾规模化养殖技术研究

专题经五年实施,完成了合同规定的研究内容和经济技术指标,建立了浅海滩涂养殖、水池(鱼)养殖、鲍鱼工厂化养殖等各种规模化养殖模式,并提出了养殖环境质量与潜在风险评价技术,取得良好经济效益、生态效益和社会效益,为南海区开展规模化养殖提供了科学依据。专题已通过国家组织的验收。

The Special Subject of National "Ninth-Five" Key Problems Tackling(96008-03-04):The research on Half-closed Bay Scale Culture Techniques in south China sea area



After 5 years of work, the research contents and economical and technical targets stated in the contract have been finished. To setup the different types of scale culture models of shallow water sea beach culture, pond(fish) culture, plant culture of abalone and raise the assessment technique of cultural environmental quality and potential risk. It has high economic, ecological and social benefits and provided scientific base for the expansion of scale culture in south China sea area. It passed the acceptance inspection organized by state.

2002年获奖科技成果

广东省科技进步奖



發展後 | 连續 | 军曹值 | 碳化茶程 与信息的 (分柱术)



7麻痹性贝类毒素粒有毒蛋素



南京郡岛 海域新州城岛 类质薄铜音

广东省农业科技推广一等奖



福生物改良养殖生态技术的推广应用



丰硕的 科研成果

建所以来, 承担各级各类科研项目500多项, 获得各类科研成果238项, 其中, 国家级奖励9项、省、部级奖励57项。突出的科研成果有《四大家鱼人工繁殖》。 《大珠母贝人工育苗与插核珠技术》、《"南海贻贝观察"体系的研究》、《广 东省海岛水域海洋生物和渔业资源调查》、《鲻鱼人工繁殖与育苗技术研究》等 等。这些科技成果,为促进水产科学技术的发展和繁荣渔(农)村经济做出了积 极的贡献。

本所承担科技成果转化的有科技服务公司和饲料与健康养殖技术开发中心, 科技公司重点是为渔业管理与规划、渔业工程、技术推广与示范等提供技术服务; 健康养殖中心拥有以三微产品 (微生物环境调节剂、微生物饲料添加剂、微生物 肥料)和绿色渔药系列为龙头产品的品牌,年生产能力逾千吨,产品远销全国各地二十几个省市及东南亚沿海国家。



Since the foundation of institute, totally more than 500 scientific research projects of different grade and type were taken on, and 238 scientific research achievements were obtained, including 9 national class prizes, 57 provincial and ministerial class prizes. Among of these, the outstanding ones are "The Artificial Breeding of Four Major Domestic Fishes", "Artificial Breeding and Nucleus Insertion Pearl Culture Techniques of Pinctada maxima (Jameson)", "Study on the South China Sea Mussel Watch System", "Marine Organisms and Fishery Resources in the waters around the Islands of Guangdong Province", "Artificial Propagation and Larvae Rearing of grey mullet (Mugil cephalus Linnaeus)" and so on. These scientific achievements played active roles in enhancing the development of fishery scientific techniques.

ology and beaming the fishery and/or rural economics. The scientific research achievements of the institute are transformed in Science & Technology Services Company and Feed & Healthy Culture Techniques Research and Development Center. Science and Technology Services Company focus on the technical services for the fishery management & plan, fishery engineering, and the technique spread & demonstration, Feed & Healthy Culture Technique Development Center produces a serials of goods which are represented by "Tri-micro Products" (Microbe Environment Mediator, Microbe Feed Additive, Microbe fertilizer) and "green fishery medicine". Its annual production capacity is more than 1000 ions, the commodity are distributed to more than 20 provinces and cities in national market as well as south-east maritime countries.

一流的科技人才

全所现有职工845人, 其中科技人员177人, 包括研究员12人。副研究员35人。 获国家级"有突出贡献中青年专家"称号2人,省、超级"有突出贡献中青年专家" 称号7人;享受国务院特殊津贴专家32人;获全国、省级劳动模范称号5人灾。全国 农业先进科技工作者2人,获广东省丁颖科技奖3人,广东省青年科技标兵6人……。 本所已基本形成了一支学科配置合理,创新意识强、学术思想活跃、勇于拼搏 的以中青年科技人员为主的研究队伍。

Among the 345 staffs in the institute, 117 staffs are engaged in the scientific research including 12professors and 35 associate professors. 2 staffs were awarded with "National



全国佐理工作者、所长兼党委书记图器平

Great Contributory Middle-aged/Youthful Expert" title,7 staffs with "Provincial/Ministerial Great Contributory Middle-aged/Youthful Expert" title,32 staffs with "State Council Allowance", 5 person-times with national or provincial "Labor Exemplar" title, 2 staffs with "National Advanced Agricultural Scientific Personnel" little, 3 people with "Dingying Scientific Prize", 3 people with "Youth Example of Guangdong Province" and so on. In the institute, a research contingent that is constituted of youthful and middle-aged personnel mainly formed, which disciplinas are collocated reasonably, have strong innovation sense as well as active scientific ideas and is brave in combat with difficulty.





雄厚的实力

全所固定资产共5000多万元,拥有万元以上的科研仪器200多台(套)。图书馆藏书量 8万余册, 中外期刊1600多种, 并出版有《南海水产研究》期刊。

成立于1954年的标本室现有各类海洋生物标本1万多概(件)。其中新种数十种。是华 南地区贮藏量最大的海洋生物标本库。

The total fixed assets of the Institute are more than 50 million Yuan (RMB), the number of the equlpment which value is higher than 10,000 Yuan is more than 200. There are more than 80,000 copies of book and 1600 kind of inland/oversea periodicals in the library, while the periodical "South China Sea Fishery Research" is published. The "Specimen Room" holds more than 10,000 bottles/units of different marine organism specimen, the storing quantity is biggest among the marine organism specimen libraries in South China.





海洋海州生态环境监测与评价

海洋渔业生态环境与污染监控技术研究

- (1)进行了开拓性基础调查研究、撑清了南海近海水域、海岛水域 和海岸带水域渔业生态环境质量状况和变化趋势。建立了海洋渔业环境 质量调查方法和评价模式,填补了我国海洋渔业生态环境质量调查研究 领域的空白。
- (2)发展了渔业水域环境质量监测与评价的方法和技术,开展了一 系列渔业水域污染基线调查和渔业环境监测计划,对渔业环境质量状况 进行了多次区域性、系统性的调查与评价。研究了重金属、农药、石油、 人工合成化学物质、工矿及城市污水对渔业生物、水生生物、浮游生态 和底栖生态的影响效应。开展了海洋渔业环境中的有机污染。富营养化 与赤潮发生机理的关系以及藻(贝)类毒素研究。
- (3)进行了临海和海上大型综合开发工程对渔业资源和生态环境的 影响评价研究。大力开展养殖环境容量、养殖环境调控与养殖环境修复 等方面的研究工作。重点开展了养殖环境恶化与病害爆发的关系。生态 改良与病害综合防治技术等方面的研究。取得了显著的科研成果。

以本研究领域为技术依托。已建起了农业部渔业生态环境重点开放 实验室、广东省渔业生态环境重点实验室、农业部南海区渔业生态环境 监测中心。

Marine Fishery Ecology Environment and Pollution Monitoring and Control Techniques Research

(1) Through the pioneering basic investigation found out the quality situation and change trend of fishery ecological environment of the off-share, islands and coastal, water area of South China. Sea, established, the method and evaluation model for the marine, fishery resource, environment quality survey, filled the vacancy in the research of the marine fishery resource quality survey in China.

(2) Improved on the methods and techniques of marine fishery resource environment quality monitoring and evaluation carried out a serials of baseline survey of fishery water area pollution and monitoring program of marine environment, conducted regional and systematic survey and evaluation on the fishery environment quality time and time. Studied the influence of heavy metal agricultural drug petrol artificial chemicals and urban sewage on the fishery organisms, aquatic organisms, pelagic ecology and benthical ecology Carned out the research on the relationship between the occurrence of "red tide" and organic pollution & eutrophication in the marine fishery environment as well as the algae (shellfish) toxin.

(3) Evaluated the influences of the coastal and maritime large-scale integrated exploitation projects on the fishery resources and ecology; Launched out the research on the rearing capacity of environment, the adjust and, control as, well as, the restore of the cultural environment vigorously. laid stress on the research of the relation between the degeneration of the cultural environment and the diseases breakout, ecological improve ment and the integrated prevention and control lechniques of the diseases, and remarkable achievement was accomplished.

Based on this research field, the following laboratories were founded: Key Laboratory of Fishery Ecology Environment, Agriculture Ministry: Key Laboratory of Fishery Ecology Environment, Guangdang, Marine Fishery, Environment, Monitoring, Center, in South China Ses Area, Agriculture Ministry

海洋渔业资源与捕捞技术研究

主要研究领域包括海洋渔业资源探捕调查和渔场开发,渔具的设计、改进和推广。 渔具渔法对渔业资源影响的调查评价、渔业自然资源监测评估与主要经济鱼类种群自然 生活史研究等。研究的地理范围覆盖了从河口。海湾、沿岸至南海中部岛礁区和南海西 南部陆架区的整个南中国海区域,以及中西太平洋的部分远洋水域。该室的研究工作为 我国海洋渔业资源的保护、管理、合理开发和可持续利用提供了科学依据,为海上划界、 维护我国海洋权益提供了理论支撑。

(1)海洋渔业资源领域。从20世纪50年代末起至今,进行了一系列规模空前的南海 区渔业资源调查,包括南海北部大陆架底拖网鱼类资源调查、西、中沙海域渔业资源调 查、南海北部大陆架外海鱼类资源调查、南海北部大陆斜坡海域渔业资源综合考察、南 海北部近海和大陆斜坡虾场调查、广东省浅海滩涂增养殖渔业环境及资源调查。广东省 海岛水域海洋渔业资源、南沙海域渔业资源调查。北部湾渔业资源调查等,对南海渔业 资源的种类。数量、分布移动、生物学特点。资源特征、渔场渔讯、渔业环境等作深入 的研究,取得的科研成果,填补了我国热带亚热带渔业资源研究的空白,绘制了南海渔 场图,开辟了新渔场,太太地推动了南海区渔业生产开发。在"九五"至"十五"期间。 对我国大陆架和专属经济区进行了全面。系统的调查研究。







(2)捕捞技术研究领域:从20世纪50年代起开始南海区海洋捕捞技术研究。先后试验成功全国首创并推动群众机帆船灯光围网 作业和发展的"机轮灯光图网"。填补了国内空白的"电脉冲捕虾技术"。国际领先水平的新式"渔用柔鐾翼型浮子"。南海首例 的"拖网囊网最小网目的研究"。国内领先水平的"人工鱼礁的研究"和"四片式拖网技术研究"等。90年代以来重点开展渔具渔 法改革。捕捞渔业副渔获问题及对策。人工鱼礁建设、渔具渔法对资源的影响和选择性捕捞等研究。为保护海洋渔业资源和渔业生 态,促进我国海洋渔业的可持续发展作出了积极贡献。

Marine Fishery Resources and Fishing Techniques Research

The study fields include marine fishery resources survey and fishing ground exploitation, the design, mend and spread of fishing looks, surve ev and assessment of fishing tools & fishery law influences on the fishery resources, monitoring, and, assessment of inatural fishery resource, the research of nature life cycle of major commercial fish population and so on The research geographical scopes covered all the South China Sea are a consisted of estuary, tray, the Island and reef area from coast to South China Sea central section, and the continental shell of the south-west part of South China Sea, along with part of cent-west Pacific pelagic water area. The research results of the division provided scientific basis for the conservation, management, reasonable exploitation and sustainable uses of marine fishery resource of our country. If provided theory supports for the sea area delimit and maintain oceanic rights and interests of our country also

(1) The field of marine lishery resources. Since the end of the 1950 s.a series of unprecedented marine fishery resources surveys in South China Sea were carried out, which includes lish resources offer frawl surveys of northern South China Sea continental shelf.XI-zhong-Sha sea are a fishery resources survey, high seas fish resources survey of northern South China Sea continental shelf, the integrated marine fishery resources survey of the continental slope of northern South China Sea, snrimp resources survey of the off-shore waters and continental slope of northern South China Sea, the proliferation and cultivation fishery environment and resources survey of the shallow sea and shoal in Guangdong province. the marine fishery survey of the island sea water in Guagndong province, fishery resources survey of Nan-shallseal area, fishery resources survey of Beibu Bay and so on. The in-depth research was conducted on the species, quantity, distribution and, migration, biological characteristics, fishing ground and fishing season, fishery environment of South China Sea fishery resources and the scientific achievements obtained supplied a gap of tropical and subtropical fishery resources survey of our country. The fishing ground, chart, was drawn and new fishing ground was exploited. All of these enhanced the lishery resources exploitation in South China Sea. During the period of ninth and tenth "Five-Year Plan", the thoroughly and systemic investigation were made on the fishery resources of the continental shelf and exclusive economic zone of our country.

in additional, the artificial fishing rest experiments and evaluation as well as the experiment of fishery resources proliferation were conducted along the coast of South China Sea. In pelagic zone, we carried out the trial fishing of tuna resources, survey of the marine ecology and observation of the marine mammals and the like. We also went to Palau sea area of south Pacific to launch an investigation of palagic fishery resources and trial production first times, which carved out a new way for the pelagic fishery development of our country.

(2) The Field of fishing tachniques research. From 1950's, the fishing techniques research was launched. The "Machine-geared Lamp Purse Net" technique has been invented firstly in China, which promoted the development of lamp purse net production of motor-salling ship, "Electric Pulse Shrimp Fishing" technique filled a national vacancy, "fishery wall-wing-like bobber" worldly advanced, the research on the limit meshsize of trawl codends is the first example in South China Sea area; The research on artificial fish reel and four-panals trawlinet technique pioneered in China; some other achievements are obtained also. Since 1990's, the researches have been focused on the reform of fishing tools and fishery law, the issue and countermeasure of fishing fishery by-products, the building of artificial fish reef, the influences of fishing tools & fisherylaw on the resource and selective fishing. These research results play, and will play important roles in the conservation of fishery resources and ecology; at the same time, they enhanced the sustainable development of marine fishery in China.

水产养殖种质资源与增养殖技术研究

- (1)1958年率先取得家鱼人工繁殖技术的突破。使我国的鱼爵生产从此 摆脱了干百年来依赖自然江河捕捞的历史。为我国淡水养殖业的飞跃发展作 出了巨大贡献。目前这一技术已在全世界范围内得到推广应用和发展
- (2)20世纪70年代。我所率先获得了大球母贝人工育苗和植核育珠成功。 培育出我国最大的人工养殖珍珠,这一成果处于世界领先水平。同期在杂色 鲍入工育苗技术上取得突破,是广东鲍鱼工厂化育苗和养殖的开创者。
- (3)20世纪70年代末起开始进行海水鱼类人工繁殖技术研究。相继率先取得海马、蚕酮、平酮、中华乌塘鳢等人工繁殖技术的成功,建立了鳢鱼苗种批量生产新技术。
- (4)20世纪80年代,率先在国内取得了包括维节对都、日本对邻、墨吉对虾、长毛对虾。刀髓新对虾、近缘新对虾等0种对虾的引种、驯化、蓄植和养殖成功。同时率先在华南进行中国对虾人工警植及养殖技术系统研究。
- (5)20世纪90年代在贝类种苗培育。养成方面取得了突出成果,东风螺 额。西施舌培苗等技术处于领先地位。



投剧者名珍珠弄细专家關刊美研究员 在海南热带水产研究开发中心研究插核技术

- [6] "九五"以来,大力开展了海产动物的细胞培养。遗传多样性,分子标记,基因文库构建和基因克隆研究,成为国内海洋生物种质资源与生物技术再种的单位之一。
- (7)80年代以来开展了一系列规模化、集約化健康新週工程技术研究。创立了南方半封闭型海湾规模化务殖配套技术和模式、建立了微生物工程侧控对新健康养殖配套技术和模式以及海水网箱高效养殖技术等

treflery Resources or Germplesm and Proliferation & Cultivation Research.

(4) The bleakthrough was taken the lead in the anifocul breading of domesticated (ish in 1958, which made the production of thy get out the dependence on fating than the river for thousands of years, and enhanced the rapid development of tresh water aquaculture. At present, this technique is applied and developed workwidery.

(2) In 1970 is, to take lead in developing the artificial trending and nucleus inserting technique of Proctade maxima. (Jameson) and collured the tiggest manual-reared pears in Office, this achievement is, wolfdly advanced, all the same period to make threathrough in the artificial breading of advanced relative threathers are under the processor of the proce

(3) To start the research of the manne fish artificial breeding at the end of 1970's to be the first to develop the artificial breeding technique of hippocrapus san. Albahoxarque sanba (Forkai), Detries tumifrons, Bostrichthy smenzisand squin in succession, and set up the new technique of grey multer from mass productions.

(4) To take load in succeeding in the introduction, abclimation breading and guiture of 8 species of graven shrimp including Penaeus monoonn Fipponicus. Penaeugueriss, Penaeus monodon Fipponicus. Penaeus preciniques of Penaeus prendata in south China.

(5) In 1990's, the great achievement was acquired in artificial breeding and nurfurence of shellfish the artificial breeding techniques of Battylonia Spp., H. divericolor. Coelamatra antiquata and so on, which is one-up in the world.

(6) Since the minh. "Five-Year Plan" to start research intensively on the cell culture, genetic diviciant, molecular marker, gene library forming and genecioning of marine organisms, and to be one research agency to develop the techniques of germptasm resources and biotechnical breading of marine organism in China.

(7) Since 1980's, to taunch a serial of researches on scale and integrated health culture engineering and techniques, found necessary techniques and model of shrimp health culture modulated with microte engineering as well as efficient page-culture in the chiquips of marine fish.

营养与食品工程研究

本学科重点开展水产品保鲜与加工。海洋功能性食品与海洋药物。水产品质量标准等方面的研究,承担多项海洋863高技术项 目。自然科学基金项目:酱部级重点项目以及各级资金的研究项目 同时在水产品食用安全与质量监控技术以及行业标准化方面做

丁大量工作。 在水产品冷冻保鲜方面进行了大量升 柴油机排气余热制冷保鲜和活鱼运输技术 在水产加丁和综合利用方面,鱼座系

取江葡琼脂新工艺。淡水鱼精巢开发。藻 菜系列和海洋保健品系列产品的开发研究

Natition and Food Engineering No.

The researches of this discipline are re of aquatic products, manne functional food atic products quality. To undertake mulitterm projects, "natural sciences funds" projects provincial and minijects supported by other funds. Alot of works have been done in the

techniques and the standardization of industry also A large number of pigneering researches have been conducted

ducts Alew of researches including the technique of fresh storage an fresh storage with low temperature salt water, cooling frash storage, with the waste heat of thesel engine and transport of live fish are initiative and in the lead in China

拓性研究 - 冷却海水保鲜技术、低温盐水微冻保鲜技术。 等项目的研究均处于国内首创和领先地位

列制品。低值鱼及加工废弃物的开发。水产系列饲料、提 类高活性膳食纤维等研究 均居国内先进水平,对海洋蔬 海洋生物抗肿瘤活性物质的筛选与制备等都取得了杰出成

推在為供品亦作保証技术 在植物生产体业中的目前

功能會品 康吳勝會計能 南州縣東



focused on the processing and stoand medicine, the standard of aqumarine BB3 high lechnology sterial impirtant projects and profood safety & quality monitoring

in freezing storage of aquatic prowith cooling sea water lightly froz-

In the aspect of the processing and integrated application of aquatic products, some achievements are advanced in China. They are the senal of products of finit meal, the processing and development of low value fish and waste, aquatic feed, the new extracting techniques of Graciataria son Aggregatacts. The development of fresh water fish gonad and algal high active edible liber Sonia accomplishments were obtained in the exploitation and research of marine vegetable and screen and preparation of anti-lumor active material

渔业生物病害防治研究

从20世纪70年代末期开始起步。20多年来,在南海区海水养殖生物的寄生虫病。细菌病。病毒病、药物实验和综合防治等方面 开展了大量工作。在海水鱼流行病研究中。对石斑鱼胀膝病和弧菌病。黄鳍蝴球菌病、海水鱼类刺激隐核虫病进行了深入研究。对 海水鱼免疫防治取得了新突破,省次分离纯化出4种南方重要海水养殖鱼类的免疫球蛋白,并制备出针对免疫球蛋白的单克隆抗体。 重点研究了南方对虾养殖品种斑节对虾和墨吉对虾的病毒病。细菌病。研究对虾非特异性免疫系统及部分免疫增强剂的作用机理。 初步瘫选出数种适宜的免疫增强剂,提出和建立了对虾养殖病害综合防治模式和技术,在养殖鲍病毒病。立克次体病和孤菌病研究 方面取得了新进展;率先在水产病害研究成果的基础上提出和建立了健康养殖模式和病害综合防治模式,取得显蓄成效。

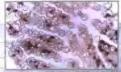
近几年来,共研制开发3大类8系列海水养殖病害防治高枝术药物。健康养殖系列产品,与健康养殖模式和病害综合防治形成配 春枯末, 在海水盖碛生产中推广应用, 发挥了巨大的技术辐射作用。

Fichery Organism Dispases Cantrol Research

Since the end of 1970's a great deal of researches have been conducted concerning the parasitosis , bacteriosis , virusis, medicine half and integrated prevention control of the diseases. In the study on the epidemialogy of marine fish, the deep researches, were carried out in the aspects of the bladder-expansion disease and vibriosis of grouper. The Staphylacoccus apidermidis disease in Sparus fatus, and Cyptocaryon irritans in marine lish. New breakthrough was accomplished in the study on the immunological prevention and cure of marine lish diseases. (g of 4 species of cultured marine fish in south China were produced and the MAbs Anti-Ig, were prepared. The research, with amphasis on virusis and bacteriosis

of cultured P. monodon, P. merguiensis in south China was carried out. To study the defense mechanism of shrimp and the reaction to the immuno-stimulator, and screen out a few kind of immuno-stimulators II was also carried out to raise and found the integrated prevention, and cure model, and lachnique. In shrimp culture. New progress was made in the research on the virusis, rickettsiasis and vibriosis of cultured abalone. To be the first to raise and found health culture, and integrated diseases prevention and control model based on the results of the aquatic organism disease research, andget fruitful result.

In recent years. 3 kinds and 8 serials of products with high technology for health mari-culture were developed and produced. These products were applied to the mariculture combining with the health culture and integrated diseases prevention & control model, which played a great role in the development of mari-culture.



实验室体系与社会公益体系建设

农业部渔业生态环境重点开放实验室

实验室以研究和解决我国渔业生态环境存在的美疆技术问题为方向,近 期主要研究内容包括

- (1) 渔业水域生态环境监测与质量评价
- (3) 渔业增养殖水域环境污染效应及生态修复理论与技术
- (4) 渔业素殖环境高效。生态调控。环保产品研制。开发与推广示范
- 15 | 养殖环境与水产病关系及综合防治
- (6) 渔业生态环境变化对渔业种质资源和天然资源的影响
- (7) 退化生态系统的恢复与重建
- (8) 生态靠殖工程与生态设施渔业等。

主要承担国家"海洋B63"。国家"十五"科技攻关及农业部。广东省 等重大项目 实验室主任: 贾晓平研究员 | 所长、博士生导师 | : 副主任 -林钦研究员(硕士生导师)、实验室学术委员会主任、黄良民研究员(中 科院南海海洋研究所副所长 博士生导师]

The Construction of Laboratory and Social non-commercial System Key Laboratory of Fishery Ecol-

ogy Environment of Agriculture Ministry

The researches are Tocused on the key techniques co-

(4) the research covelopment and demonstration of high-effective and ecological pr-

(6) meinthiences of fishery explogical environment change on the fishery germplasin.

and natural resources

Threstore and refusid of the dependence our injurial system

(8) prological culture engineering and ecological facility fishery and so on The main prgreats included national "manne 863", national lenth "Five-year Plan" Key Scientific Probiems Tackling and some major projects from Agriculture Ministry and Guangdang Province There are 15 lixed staffs in the rab The rab quentur. Prof. JIA Xiaoping (director of the institute Ph Ditutor) the action incommittee streets of the lab. HUANG Lianging (vice president of



广东省渔业生态环境重点实验室

实验室面积1200m,拥有各类实验室10间,试验基地面积26507 m,证验永体3880m,试验海面139850m,仪 器设备10台(套),价值650万元

Key Laboratory of Fishery Ecology Environment, Guangdong

The main insequent contents are the research on the monitoring and evaluation ferbinissists of their evaluates settlement in the environment to environment in the environment of the en

The Lab also is 1200m. The experiment three area is 2660 m. The experiment waters visible to 1500m. The experiment offing area is 139800m. In additional, there are 100 are of apparatus and equipments which value are 6.8 million Yulan.

农业部南海区渔业生态环境监测中心

中心成立于1985年,東國中华人民共和国造政強進监督管理局领导 持有找回途 业污染事故鉴定资格甲级证书。主要从事渔业生态环境监测和研究 渔业污染事故调 费和鉴定。建设项目对渔业资源及渔业生态环境的影响评价等方面的工作。近十年采 取偶各级科技成果奖励18项。其中,获国家科技进步三等奖1项,能级科技进步二等 发4项、三等34项,万局级科技成果奖励9项,发表学术论文200多稿。1998年被国家 环保局评为。全国环境监测网络先进单位。

中心现有固定人员10人 其中。研究员4人。副研究员3人。全部人员都获持有中华人民共和国海政地准监督管理局服发的渔业污染事故鉴定资格证书。

South China Sea Fishery Ecology Environment Monitoring Center, Agriculture Ministry

The entire which was founded in 1985 is subordinals to the Asserts of Fastery Policy and Plasting Historia Management PRO as poecesses the authentication quality perillibration (ribes A) of Instery pollution acciding the data with mining the enountering and research of foreign entire productions of the enountering and instance of the sensitive configuration and authentication of Subory pollution accident, the assessment of the unbusiness of the constitution projects on the listery resources and acciding all environments in educations from years. (there are 18 according activation entire accident from different feet) once of their installing assessment exhausting and examined providing activation and environments. As such is sufficient to the control them to activitize a subordinal assessment exhausting advance price (Class 2), more than 200 pagers were published, in 1995, it was rewarded to "National Assessment Shirt of Environmental Managements."

There are 10 regular etails, including 4 professors and 3 associate professors. All of the staffs alliamed the authentication quality configation issued by Fishery Policy, and Fishing Harbor Menagement agency.



实验室体系与社会公益体系建设

农业部南海区渔业病害防治中心

中心包括中心实验室、中试实验工厂、健康苗种选育和高健康 养殖技术示范基地,是为南海区热带亚热带海水养殖业的健康、稳

定和可持续发展,集海水 养殖病害防治科学研究、 综合防治技术、绿色渔药 和健康养殖系列产品研发 中试、健康种苗选育和高 健康养殖示范、技术咨询、 技术培训、技术服务和技 术推广等综合功能为一体 的国家区域性海水养殖病 寒防治研究中心。





Prevention and Control Research Center of Mariculture Organism Diseases in South China Sea, Agriculture Ministry

The center isconsisted of central lab, middle-scale test plant, high-health seed breeding and culture techniques demonstration base. It is a national center for regi-

onal mariculture organism diseases prevention and control with integrated function including the research of mariculture organism diseases prevention and control sciences and techniques, development and middle-scale test of green fishery drug and series products for health-culture high-health seed breeding and culture techniques demonstration, technique consultation, technique training, services and technique spreading and so on.

农业部渔业环境及水产品质量监督检验测试中心(广州)

本中心是农业都授权、经过国家计量认证,为社会提供公证数据的法定专 职产品质量检验机构和农业质量技术执法机构。现设有业务室、第一检验 室和第二检验室、工作人员18名(其中正高5名、副高8名)。主要承 担农业部或有关部门指定的渔业环境与水产品质量监督检验、鉴定和 评估、有关产品质量的仲裁检验和其他委托检验,承担或参与有关标 准的试验验证下作,研究新的检测技术和方法。

Fishery Environment and Aquatic Products Quality Supervision & Testing Center, Agriculture Ministry (Guangzhou)

The center is an official full time products testing and agricultural quality technicial lawenforcement agency providing notarial data for society, which was authorized by Agriculture Ministry and passed the national measure authentication. It consists of Service Room, Inspection Room1, Inspection Room2 and18 staffs (5 professors and 8 associate professors). To be charged with the fishery environment and aquatic



products quality supervision, inspection, authentication and assessment assigned

by Agriculture Ministry or other agency concerned. To do the arbitration and other entrusted examination concerning the product quality. To take charge participate in the test and verification of the related standard. To research the new detect techniques and methods.



劳动和社会保障部特有工种职业技能鉴定站

鉴定站是经国家劳动和社会保障部批准在我所设立的海水养殖技术资格培训、鉴定机构,鉴定站面向 全省渔业生产第一线,以培养适应现代化海水养殖生产需要的中、高级技术和管理人才为目标,培养一流 的水产养殖科技实用人才。

Professional Skill Authentication Station of Special Type of Work, Lahor and Social Guarantee Ministry

Authentication is a mariculture skill training and quality authentication agency authorized by National Labor and Social Guarantee Ministry to set up in the institute for the provincial fishery production front line.tts goal is to train persons with high-middle class skill and capacity of management for the modern mariculture production and top-ranking qualified scientists and technicians for aquaculture.



农业部海业环境及水产品质量整督检验测试中心广

科学 公正 高效 廣洁 服务

中试实验基础

深圳试验基地

我所科研创新体系的中试实验基地,中要从惠海洋渔业资源与生态、渔业病害 防治、种质资源洗种育种等方面的研究以及热带亚热带鱼、虾、贝、藻种苗的工厂 化生产,集研究、中试、示范、产品开发、培训与学术交流为一体,是全国规模最 大的"三高"水产增养殖科研和科技成果转化基地之一。承担并完成国家、部委、 省市和联合国80多项科研项目,获国家、省(部)、深圳市和水科院科研成果奖33 项,为解决我国名优水产种苗的繁育、增养殖和病害防治等海洋渔业生产持续发展 的关键技术问题作出了重大贡献。



Shenzhen Experimental Base

it is one of the middle -scale test base of the institute's innovation system. The mainworks are focused on the factory production of tropical and subtropical fish, shrimp, shellfish and algae seeds. It is integrated with research middle-scaletest demonstration, product development training and learning communication. Its scale is the largest among bases of the scientific research and science and technology achievement transformation of "Tri-high" proliferation and cultivation of aguatic organisms in China. It has taken on and

finished more than 80 scientific research projects financed by state, ministry, province (city) and United Nation. 33 achievement prizes were awarded by state, province/ministry, Shenzhen City and Chinese Fishery Science Research Academy. It contributed to the solution of the key problems concerning the sustainable development of the marine fishery industry in the aspect of the breeding of "well-known and famous" aquatic organisms seeds, proliferation and cultivation, prevention and cure of the diseases and as well.

热带水产研究开发中心

位于海南省三亚市、是我所科研创新体系的另一个中试实验基地、主要从事热 带海区水产动、植物种苗繁育及增养殖技术的研究和开发,先后承担国家、农业部 等科研项目50多项,最突出的成果《大珠母贝人工育苗、养殖和插核育珠》,培育 出中国"珍珠王"及大批量珍珠,填补了我国珍珠生产的空白(该成果获国家科技 进步一等奖)、为我国大规模发展南珠产业奠定了基础。

Tropical Aquaculture Research and **Exploitation Center**

The centerlies in Sanya city, Halnan province.It is another middle-scale test base of the nstitute's innovation system. The main works are focused on the research and exploitation of tropical and subtropical aquatic organism seeds breeding and proliferation & cultivation techniques, it has taken on and finished more than 50 scientific research projects fina-



Techniques of Pinctada maxima(Jameson)" which filled a vacancy in the pearl production of China (it is rewarded with National Science and Technology Advance Prize (Class 1)) and established the base for the large scale development of south pearl industries. "the king of pearl" and a large number of pearls were produced when the project was finished.

科技服务公司



图 為重體 署 看 电 政府 工程 随何研究 会同

以我所科研创新体系为技术依托,承揽政府。社会团体。企事业单位的决策。立项。评估等 方面的咨询、研究、为促进渔业经济建设和繁荣渔(农)村经济提供技术服务。1992~2002年。 共承接了60多个项目,总收入约2000万元。这些项目包括水域环境评估。渔业资源调查、渔业发 展规划。养殖工程与健康养殖技术等方面的内容。

Science and Technology Enterprises Science & Technology Services Company

Depending on the institute's impovalion system the company hires consultation and research projects, works for the decision, project building and assessment of the government, social community, to provide technical services for promoting marine sconomic construction and booming the fishery (rural) economics. From 1992 to 2002, more than 60 projects were carried out and the total earning was about 20 minition. Yourn These projects are involved with the assessment of waters environment. survey of fishery resources, fishery develop planning, seed selection and breeding for cultivation, feed, and health-culture techniques, and, so, on, Picture at side is taken when we bore the engineering consultation research project for Hongkong government

饲料与健康养殖技术研究开发中心



中心以本所確厚的科技力量为依托,从事渔业生态环境微生物修复技术。水产健康养殖技术。 水产动物营养生理、水产饲料绿色添加剂、水产饲料优化配方及水产饲料生产的研究和开发工作。 年产微生物环境调节剂。微生物饲料添加剂、微生物肥料和绿色渔药系列等龙头产品逾千吨。通 过不断研究和实践,建立了由基础理论。科研技术和配套产品组合而成的水产品健康养殖新模式。 加强送科技下乡,为促进水产养殖业的发展作出了重大贡献。

Feed & Healthy Collure Techniques Research and Revelopment Centus

Relying on the tremendous science and technology strangth, the center undertakes the work concerning the microbe restore techniques of fishery acological environment, health-culture technique for aquacultare pullitional physiology of aquatic animal, optimized formula of aquatic feed and the research of aquatic, feed production and exploitation More than 1000 tons of leading products were produced annually including Microbe Environment Mediator, Microbe Feed Additive, Microbe Feetllizer as well as Green Fishery Drugs series product. Through continuous research and practices, the new health-culture model of equatic products was invented consisting of basic theory scientific research technique and asset products. This achievement contributes to the development of

科学技术的竞争说到底就是人才的竞争 本所一直把培养人才和开发人力资源作为首要 任务来抓。采取的主要措施有

- (1)利用承担高层次的科研课题培养造就高层次科技人才。
- (2) 采用资助改读在职博士和硕士。选派资助到国内外著名高等学府。科研院所进行讲
- 学 访问、进惟、研修、培训、资助参加国内外高等级、高水平的学术交流活动等方式加速人才培养。

(3)发挥自身使势,走联合培养人才之路。与上海水产大学、湛江海洋大学、华中农业大学、华南农业大学等联合培养硕士研 究生,建立一个联合培养博士生点,三个联合培养硕士生点,现有博士生导师1人,硕士生导师14人;博士和在职博士生12人,硕士 和在职硕士生23人。这不仅太大推进了本所高级人才的培养。也为大学加大研究生培养力度做出贡献。此外。本所还利用职业技能 培训与专业技术讲座培训渔业从业者年约3000人次,为繁荣渔(农)村经济做出了突出的贡献。

The competition of science and technology is the competition of talent at bottom. The Institute regards the personnel training and exploitation of personnel resources as the most important lask all the time. The main steps are:

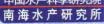
(1) To train the high class qualified scientists and technicians with high-level research projects

(2) In order to quicken the personnel training, to provide finance support for the staffs to continue on the job Msc. Ph.D. give lectures, visit attend advanced study, study and research and attend training, and to participate, the high class, and high level science intercourse



(3) To carried out joint personnel training program with self-advantage. To start, Msc and Ph Deducation program cooperating with Shanghai Fishery University Ocean university of Zhanjiang Agricultural University of South China, and Agricultural University of Central China, construct a joint PhD student education program and 3 MSc student education programs. Al present, there are IPh D Tutor and 14 MSc Tutors, and 12 full time/on-the job Ph D students and 23 full time (on-the-job MSc students I) not only promotes the high-grade personnel trainng by a long way, but also contributes to strengthen the postgraduate education of the university in additional it contributeds to the booming of fishery (agricultural) economics to train more than 3000 persontimes of hishary practitioner with professional skill fraining and professional technique lecture.















思晓平圻长在国际研讨会上与台湾省水产阶所长"差断之父"摩一久 普湾所庸陷井终士,东岩所居宫忠研克员会影



韓国振兴水产院院长到所参观支流



美国湿地自然保护考察团访问视析并进行学术交流



中 日 韩三国水产科拉代表团在我所进行学术交流



中越水严原殖研讨会



智利水产养殖代表团来视所参观访问



梅威城市与地区研究所代表团来批所都没考察



印尼代表团在找所作学术交流



阿曼农堡部代表债券现找所



香港特区被府進农处处此李熙填博士丰团访问视所

大珠母贝Pictada maxima Jameson人工育苗养殖及插育珠

1978年获全国科学大会奖,1985年获农效渔业 部科技进步一等奖,1987年获国家科技进步一等奖, 于1970年首次获得大张母贝人工育苗高成功,创 造了富内水池培育大量大珠母贝幼苗和海区养成技 水,该项技术在国内外层额先地位,为发展大珍珠 中雪产了基础



大珠母贝插核育珠的研究1981年取得成功、培育出我国第一颗 商品大珍珠(规格19×15.5毫米、重量6克、银白色、葡萄形)、该 成果已在我国南方大范围推广应用。



Artificial Breeding, Nucleus Insertion and Pearl Culture Techniques of *Pincta da maxima* (Jameson)

It was awarded with National Science Congress Bonus in 1978, Science and Technology Adocement Prize by Agriculture, Animal Husbandry and Fishery Ministry (Class 1) in 1985, National Science and Technology Advancement Prize(Class 1) in 1987.

in 1970, the artificial breeding of *Pinctada maxima* (Jameson) succeeded for the first time. The techniques of batch pond culture of *Pinctada maxima* (Jameson) larvae and nutrurance technique in the sea were invented. These techniques were ahead of couaterparts in the world and established base for the development of bug pear industry.

The pearl cultivation with nucleus insertion technique was developed successfully in 1981. This commercial big pearl was produced (Size 19 × 15.5mm, Weight, 5g, Color, silvery white, Shape, grape). This achievement has been spread and applied in south China extensive.

蘇、氫鱼人工控制池塘製殖



1965年获国家科委发明奖(00019);1978年获全国 科学大会奖:1979年特广东省科学大会奖。

本项目从1952年开始指行地养殖家企人工繁殖的研究 采取流水制造和借青方法于1988年6月家边地促使饲养干油 中醛、需量产卵群化。關后、采用此法、又获得了家鱼、 青鱼、鲢鱼(广东的主要养殖对象之一)治中人工繁殖成 功。家鱼人工繁殖成功业世界创举,是世界水产科学技术 的重大费刚均长、规律上扩宽之下百亩来家各亩来源标

赖于江河捕捞的历史·大大地促进了淡水养殖事业和水产科学技术的发展,为我国淡水养殖业的飞跃发展作出了巨大贡献。

Scientific Research Achievements

The Artificial Pond Breeding of Bighead (Aristichthys nobilis, Richardson, 1844) and Silver Carp (Hypophthalmichthys molitrix, Valenciennes, 1844)

It was awarded with National Science Committee Invention Bonus (00019) in 1965, National Science Congress Bonus in 1978, Science Congress Bonus of Guang dong in 1979.

This project was started from the research on the artificial breeding of the pond-cultured domesticated fish in 1953. In the June of 1958, the bighead and slive care pultured in the pond spawned and halched successfully after the flowing-water stimulation and hatch hastening. Then, the frys of Myulopharyngodon picens. Clenopharynfodon idelius and Curnius moliforetie were reproduced artificially with these techniques. The artificial breeding of domesticated fish was pioneering work in the world and the invention of great aquaculture science and technology in the world, and changed the history of the domesticated fish if y depending on the fishing in river for thousands of years. It contributed greatly to the rapid development of the fresh water culture in China.

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