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# Effects of human activities on seagrass bed ecosystem services value in Hepu of Guangxi Province

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In recent years, seagrass ecosystem in China has been degraded seriously. Taking the seagrass bed ecosystem in Hepu of Guangxi Province as example, and employing the basic theories of eco-economics, its services value loss caused by human activities was primarily estimated based on the local statistic data from 1980 to 2005. The evaluation indices system included food production, atmosphere regulation, ecosystem nutrient circulation, water purification, biodiversity maintenance, and functions of scientific research. The results showed that the total services value loss of seagrass bed ecosystem in Hepu of Guangxi was 34 657.95×10<sup>4</sup> Yuan RMB from 1980 to 2005, and the loss ratio reached 71.97%, in which, the direct use value increased 44 52.88×10<sup>4</sup> Yuan RMB, while the indirect use value loss was 39 110.83×10<sup>4</sup> Yuan RMB, with the loss ratio accounted for 81.82% from 1980 to 2005, proving that the increasing trend of human exploitation intensity was evident.

【Key Words】 : **human activities seagrass bed ecosystem service value Hepu of Guangxi Province.**

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## 【References】

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- HAN Qiu-Ying,SHI Ping Yantai Institute of Coastal Zone Research for Sustainable Development,Chinese Academy of Sciences,Yantai 264003,China;[Progress in the study of seagrass ecology](#)[J];Acta Ecologica Sinica;2008-11
- LI Lei<sup>1,2</sup>,HUANG Xiao-ping<sup>1</sup> (1Key Laboratory of Tropical Marine Environmental Dynamics,South China Sea Institute of Oceanology,Chinese Academy of Sciences,Guangzhou 510301,China; 2Graduate University of Chinese Academy of Sciences,Beijing 100039,China).;[Research advances in heavy metals accumulation in seagrass and its effects on seagrass growth](#)[J];Chinese Journal of Ecology;2009-09

## 【Citations】

Chinese Journal Full-text Database

7 Hits

- XIN Kun 1,XIAO Du\Ning 2 (1 Department of Biology,Hainan Normal College,Haikou 571158,China;2.The Institute of Applied Ecology, CAS, Shenyang 110016,China).;[Wetland Ecosystem Service Valuation—A Case Researches on Panjin Area](#)[J];Acta Ecologica Sinica;2002-08
- HE Wenqing 1,CHEN Yuanquan 1,GAO Wangsheng 1\*\*,YIN Cunbao 2(1College of Agronomy and Biotechnology,China Agricultural University Beijing 100094, China; 2 Soil Fertilizer Station of Wulanchabu Region,Jining 012000, China);[Economic value of agroecosystem service in typical wind-erosion region of transition zone between agriculture and pasture](#)[J];Chinese Journal of Ecology;2004-03
- ZONG Wenjun~(1,2),JIANG Deming~1,A Lamusa~1 (~1Institute of Applied Ecology,Chinese Academy of Sciences,Shenyang 110016,China;~2Graduate School of Chinese Academy of Sciences,Beijing 100020,China).;[Research advances in ecosystem services valuation](#) [J];Chinese Journal of Ecology;2006-03

100039,China);Research advance in ecosystem services valuation.[J];Chinese Journal of Ecology,2006-02

MO Chuangrong 1,2 1.School of Environmental Science and Engineering,Zhongshan University,Guangzhou 510275,China;2.School of Chemistry and Chemical Engineering,Guangxi University,Nanning 530004,China;Evaluation of hydropower development on river ecosystem services[J];Ecology and Environment;2006-01

PAN Wenbin~ 1,2, TANG Tao~1, DENG Hongbing~ 1,3,CAI Qinghua~1 (~1Institute of Hydrobiology, Chinese Academy of Sciences, State Key Laboratory of Freshwater Ecology and Biotechnology, Wuhan 430072;~2Environment and Resources Engineering Department, Fuzho;Lake ecosystem services and their ecological valuation-a case study of Baoan Lake in Hubei Province.[J];Chinese Journal of Applied Ecology;2002-10

ZHUANG Da-chang 1 ,OU Wei-xin 2,3 ,DING Deng-shan 1 (1.Department of Urban and Resource,Nanjing University,Nanjing210093,China;2.Nanjing Institute of Geography and Limnology,CAS,Nanjing210008,China;3.Graduate School of the Chinese Academy of Sciences,Beijing100039,China);Evaluation of the lake recovery area eco-economy benefit in Dongting Lake wetland[J];Journal of Natural Resources;2003-05

CUI Bao shan YANG Zhi\lfeng (Institute of Environmental Sciences Beijing Normal University,State Key Laboratory of Water Environment Simulation,Beijing\ 100875,China);BENEFITVALUATIONOFTYPICALWETLANDSINJILINPROVINCE[J];Resources Science;2001-03

## 【Co-citations】

### Chinese Journal Full-text Database

10 Hits

- 1 ZHAO Xu-yang et al (The Resource and Environmental Sciences Department,College of Shijiazhuang,Shijiazhuang,Hebei 050035);Research on the Function Evaluation and Development of Ecotourism Resource in Hutuo River Wetland Guanghuang Area[J];Journal of Anhui Agricultural Sciences;2006-15
- 2 NIU Yong-jun et al(Department of Disaster-Prevention Technique,Institute of Disaster-Prevention Science and Technology,Beijing 101601);Research on Wetland Dynamic Variation in Tanghai[J];Journal of Anhui Agricultural Sciences;2007-17
- 3 WEI Bo et al (Department of Land Recourses and Tourism Sciences,Nanjing University,Nanjing, Jiangsu 210093);Assessment of Value of Ecological Function in Farmland[J];Journal of Anhui Agricultural Sciences;2007-19
- 4 NIU Yong-jun et al(Disaster-Prevention Department,Institute of Disaster-Prevention Science and Technology,Beijing 101601);Analysis of the Resources in the Tanghai Wetland and Their Features[J];Journal of Anhui Agricultural Sciences;2007-21
- 5 LIU Xiang-hua(College of Economics and Management,Henan Agricultural University,Zhengzhou,Henan 450002);Discussion on Selecting Criteria of Core Functions of Ecosystem[J];Journal of Anhui Agricultural Sciences;2007-23
- 6 LIU Xiang-hua (College of Economics and Management, Henan Agricultural University , Zhengzhou, Henan 450002);Analysis of Economic Causation of Valuation Predicament of Ecosystem Services[J];Journal of Anhui Agricultural Sciences;2007-26
- 7 BAI Jing-feng et al(Geography Department,Nanyang Normal University,Nanyang,Henan 473061);Evaluation of the Ecological Economic Value of Yancheng Coastal Wetland[J];Journal of Anhui Agricultural Sciences;2008-03
- 8 ZHANG Jing-song et al(Bureau of Investigation and Plan of National Land Resource of Tieling,Tieling,Liaoling 112000);Evaluation of the Ecosystem Service Value of Baishi Reservoir[J];Journal of Anhui Agricultural Sciences;2008-09
- 9 ZHAO Mei-ling et al(College of Landscape Architecture and Tourism,Hebei Agricultural University,Baoding,Hebei 071000);Evaluation on the Ecosystem Services of Nanhu Wetland Park in Tangshan City[J];Journal of Anhui Agricultural Sciences;2008-14
- 10 REN Man-li (School of Resource Environment and Tourism,Anyang Teachers College,Anyang,Henan 455000);Evaluation on the Serving Functions and Value of Urban Wetland Ecosystem[J];Journal of Anhui Agricultural Sciences;2008-16

### China Proceedings of conference Full-text Database

10 Hits

- 1 DU Qun;Jurisprudence Hypothesis on Ecological Conservation and its Compensation Based on the Analysis of Ecosystem Service Values[A];[C];2006
- 2 Pang Zhenghong (Guangxi Forestry Department, Nanning 530022);The Study on the Forest Ecosystem Service Value in Guangxi[A];[C];2003
- 3 Su Chao-yang Miao Chang-hong (Research Center of Yellow River Civilization and Sustainable Development and College of Environment and Planning,Henan University,Kaifeng 475004,China);Based on the Value of Ecosystem Services of Land Use Planning assessment in Kaifeng[A];[C];2008
- 4 Song Yan,Xu-Chenxi (Land Science Society of Hebei Province,Hebei Province Shijiazhuang 050091 );Analysis on Ecological Effects of Land Use and Land Cover Change in The West Mountain Area of Shijiazhuang[A];100000

[C];2008

5 ;The Compensation Standards Estimates of Soil and Water Conservation in Shaanxi Province Energy  
Development[A];[C];2008

6 Liu Guangping,Yang Hong College of Marine,Shanghai Ocean University,Shanghai 200090,China;Evaluation of  
Estuary Ecosystem Services:A case study in Shanghai Yangtze Estuary[A];[C];2008

7 Dai Bo (Institute of Development Studies, Yunnan University, Kunming, Yunnan, 650091);Research Progress on  
Ecological Assets Valuation[A];[C];2003

8 ZENGZhaohai HUYuegao ZHENG Yong LIU Yingjun (PERC, College of Agronomy and Biotechnology, China  
Agricultural University, Beijing 100094; Hulunbeier Animal Husbandry Bureau of Inner Mongolia, China);The  
Primary Estimation of the Ecosystem Services Valuation in Hulunbeier[A];[C];2004

9 TIAN Zhi-hui~(1,2)ZHENG Da-wei~1 (1.College of Resource and Environment,China Agricultural  
University,Beijing 100094,China; 2.Department of Forestry,Beijing Agricultural College);Evaluation of  
Ecosystem Service Value in Mountainous Areas of Beijing[A];[C];2006

10 CAI Zhong-hua~1 LIU Wei~2 (1.Research Center of Green Innovation and Sustainable Development,Beijing  
University of Chemical Technology,Beijing 100029; 2.School of Life Sciences,Beijing Normal  
University,Beijing 100875);Study on the Investment of Natural Capital Based on Sustainable Development[A];  
[C];2008

## 【Co-references】

Chinese Journal Full-text Database

10 Hits

1 ZHANG Hong-jie,LI Li-xia,WANG Yang-ke (Bio-resource Key Laboratory of Shaanxi Province, Shaanxi  
University of Technology, Hanzhong 723000, Shaanxi, China);Investigation on the Economical Animals in  
Hanzhong,Shaanxi[J];Amino Acids & Biotic Resources;2003-03

2 YE Fen HUANG Cheng-Ming LI Han-Hua(College of Life Sciences,Guangxi Normal Universtey,Guilin  
541004,China);Breeding Population of Chinese Egret in Fangcheng of Guangxi Province[J];Chinese Journal of  
Zoology;2003-05

3 Li Chungan. Guangxi Forestry Surveying and Planning Institute, 530011, Nann ing, Guangxi Province,  
P.R.China.;Quantitative distribution of mangroves in Guangxi Zhuang Autonomous Region[J];Journal of Beijing  
Forestry University;2004-01

4 WANG De-liang GU Jiao-feng (College of Life Science,Central South Forestry Univ.,Zhuzhou  
Hunan,412006);INVESTIGATION AND PROTECTIVE STRATEGIES OF WILDLIFE RESOURCES OF  
HONGSHUIHE NATURAL RESERVE IN GUANGXI PROVINCE[J];Journal of Changde Teachers  
University;2003-02

5 Zhou Dexiang (Changchun Institute of Geography,Academia Sinica);TERMS,CLASSIFFICATION AND  
DESCRIPTION OF MARSH IN CHINESE HISTORY[J];Scientia Geographica Sinica;1982-01

6 Song Yuxiang Cui Lijuan (Changchun Institute of Geography, Academia Sinica, Changchun 130021) Zhang Yi  
(Harbin Normal University, Harbin 150080);EVALUATION OF TOURIST RESOURCES IN XINGAN  
LEAGUE, INNER MONGOLIA[J];SCIENTIA GEOGRAPHICA SINICA;1997-02

7 GAO Hua,ZHANG Yu xiu,CHAI Tuan yao \* (Department of Biology,Graduate School of Chinese Academy of  
Sciences,Beijing 100039,China);Research advances in Phytochelatins and Phytochelatin synthase[J];Acta  
Botanica Boreali-occidentalia Sinica;2001-04

8 CHEN Xiao-yong, YANG Jun-xing~\*, CUI Gui-hua (Kunming Institute of Zoology, the Chinese Academy of  
Sciences, Kunming, Yunnan 650223, China);A New Fish Species of Genus Sinocrossocheilus (Cyprinidae) from  
Guangxi, China[J];Zoological Research;2006-01

9 SUN Guang you (Changchun Institute of Geography, Chinese Academy of Sciences, Changchun  
130021,China);DEVELOPMENT AND PROSPECT OF WETLAND SCIENCE IN CHINA[J];Advance In Earth  
Sciences;2000-06

10 LUO Zhong-kui1,2,HUANG Jian-hui1,SUN Jian-xin1(1.Laboratory of Quantitative Vegetation Ecology,Institute  
of Botany,Chinese Academy of Sciences,Beijing 100093,China;2.Graduate University of Chinese Academy of  
Sciences,Beijing 100049,China);On Ecological Functions and Conservation of Mangrove Forest[J];Journal of  
Subtropical Resources and Environment;2007-02

China Proceedings of conference Full-text Database

1 Hits

1 Chen Young-Ning (Guangxi Hepu State Dugong Natural Reserve Govern Stage Beihai 536000, china);The  
ecosystem and sustaining use of Guangxi Hepu seagrass meadow[A];[C];2004

## 【Secondary References】

Chinese Journal Full-text Database

1 Hits

1 LI Sen1,2,FAN Hang-qing2,1,QIU Guang-long2,SHI Ya-jun2 1.College of Forest,Guangxi University,Nanning  
530004,China 2.Guangxi Mangrove Research Center,Guangxi Academy of Science,Beihai 536000,China;Studies  
on biomass and productivity of three seagrass populations at Zhulin,Beihai,Guangxi,China[J];Ecological

SCIENCE;2007-03

## 【Secondary Citations】

Chinese Journal Full-text Database

10 Hits

- 1 TUO De bao 1,DUAN Yu 1,ZHAO Pei yi 1,ZHENG Da wei 2, CHEN Ming 1,ZHAO Ju 1 (1 Inner Mongolia Academy of Agricultural Sciences,Huhot010031,China; 2 China Agricultural University,Beijing100094,China) ;[Ecological Effect of Intercropping Strips Keeping Stubble on Preventing Field from Wind Erosion in Dryland Farming Areas](#)[J];Acta Agriculturae Boreall—sinica;2002-04
- 2 ;[The Environmental Cost-benefit Analysis method to the Environmental Impact Assessment](#)[J];ENVIRONMENTAL PROTECTION SCIENCE;1999-02
- 3 ZHAO Jing-zhu, DUAN Guang ming, REN Zi ping, DENG Hong bing, WU Gang (Key Laboratory of System Ecology, Research Center for Eco Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China);[Study on the Relative Economic Value of Eco-Environmental Contributions](#)[J];Environmental Science;2004-05
- 4 Su Jinhua,Liu Fuying,Wang Long,Zhang Caiqing,Xu Yongming (Agro-Environmental Projection & Energy Resource Monitoring Station of Inner Mongolia Huhhot,010010);[GRASSLAND CONSTRUCTION IS THE KEY LINK OF ECOLOGICAL AGRICULTURE CONSTRUCTION IN THE INTERLOCKING BELT BETWEEN THE FARMLAND AND PASTURELAND --THE PRACTICE AND ENLIGHTENMENTS IN THE ECO-AGRICULTURAL CONSTRUCTION IN THE NORTHERN FOOT](#)[J];Inner Mongolia Environmental Protection;2001-04
- 5 CHEN Zheng xin 1, YU En feng 2, SHI Shi bin 1, MAO Yun fei 3 ( 1 Water Conservancy Academy of Inner Mongolia Autonomous Region,Huhehot 010020,Inner Mongolia,China; 2 Water Conservancy Construction Brigad of Xilinhot City of Xilinguole League,X;Strategies for Rejuvenation of Degenerated Natural Grassland Within Northern Agro-grazing Ecotone of Yinshan Mountains, Inner Mongolia[J];Research of Soil and Water Conservation;2002-01
- 6 OUYANG Zhi Yun WANG Xiao Ke MIAO Hong (Research Center for Eco Environmental Sciences,Chinese Academy of Sciences,Beijing 100080,China);[A primary study on Chinese terrestrial ecosystem services and their ecological-economic values](#)[J];ACTA ECOLOGICA SINICA;1999-05
- 7 XIAO Han 1,OUYANG Zhi Yun 1,ZHAO Jing Zhu 1,WANG Xiao Ke 1,HAN Yi Shi 2 (1 Research Center for Eco Environmental Sciences,CAS,Beijing 100080,China;2.Hainan Resource and Environmental Department,Hainan 570204,China);[The spatial distribution characteristics and eco economic value of soil conservation service of ecosystems in Hainan Island by GIS](#)[J];ACTA ECOLOGICA SINICA;2000-04
- 8 ZHANG Zhi-Qiang<sup>1,2</sup>, XU Zhong-Min<sup>1</sup>, CHENG Guo-Dong<sup>1</sup> (1.State Key Laboratory of Frozen Soil Engineering, Cold and Arid Regions Environmental and Engineering Research Institute, CAS, Lanzhou 730000,China;2.Scientific Information Center for Resource;[Valuation of ecosystem services and natural capital](#)[J];Acta Ecologica Sinica;2001-11
- 9 XIN Kun 1,XIAO Du<sup>1</sup> Ning 2 (1 Department of Biology,Hainan Normal College,Haikou 571158,China;2.The Institute of Applied Ecology, CAS, Shenyang 110016,China).;[Wetland Ecosystem Service Valuation— —A Case Researches on Panjin Area](#)[J];Acta Ecologica Sinica;2002-08
- 10 XU Zhong Min 1,2 , ZHANG Zhi Qiang 3, LONG Ai Hua 2, CHENG Dong Jing 2, GONG Zeng Tai 1, SU Zhi Yong 4, ZHANG Bo 1 SHI Hui Chun 1 (1.Department of Geography, Northwest Normal University, Lanzhou 730070, China; 2. State Key Laboratory of Frozen Soil Engineering, CAREERI, CAS, Lanzhou 730000, China; 3. Scientific Information Center for Resources and Environment, CAS, Lanzhou 730000, China; 4. State Key Laboratory of Arid Agroecology, Lanzhou University, Lanzhou 730000,China).;[Comparison and application of different contingent valuation methods in measuring total economic value of restoring Ejina Banner's ecosystem services](#)[J];Acta Ecologica Sinica;2003-09

