



Minnesota State Zoological Board.
Zoo-Related Organizations Files.

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Minnesota Zoo

FAX Transmission

From: Kathryn R. Roberts
To: U.S. (Ulie) Seal, Room #819
Company: c/o Holiday Inn

Date: May 24, 1994
Time: 3:25 PM
FAX #: 512/472-4636

Message:

Ulie,

After we departed Cologne, Gunther and John DeJose called Satch to discuss the relationship issues with AZA. They apparently asked Satch to communicate their concerns to Syd. I heard from Satch who had spoken to Syd. Satch delivered the message to Syd that Lee, Jim, Dave Wildt and I *were* ~~would~~ ready to come to Washington. Syd suggested that rather than a flock of us going, 2 or 3 would be more appropriate.

Lee, Satch and I are going to go to Washington to meet with Syd. Syd would like you and Mike to also attend that meeting. We are targeting the week of June 27th. From what I can tell from your schedule, it looks like you might be able to squeeze in one day at that time. I will await your reaction.

Kathryn

VOICE: 612/431-9299 FAX: 612/431-9336

Minnesota Zoo Boulevard, Apple Valley, MN 55124

1991 ANNUAL REPORT TO THE AAZPA
CAPTIVE BREEDING SPECIALIST GROUP (CBSG)

Ulysses S. Seal, Ph.D.
Chairman,
Captive Breeding Specialist Group SSC/IUCN
12101 Johnny Cake Road
Apple Valley, MN 55124

Thomas D. Foose, Ph.D.
Executive Officer,
Captive Breeding Specialist Group SSC/IUCN
12101 Johnny Cake Road
Apple Valley, MN 55124

OVERVIEW

The Captive Breeding Specialist Group (CBSG) is one of Specialist Groups of the Species Survival Commission of the IUCN (The World Conservation Union, i.e., the "United Nations" of Conservation). CBSG originated in its present form under Dr. Ulysses S. Seal as Chairman in 1980, and has been reappointed for the next IUCN triennium which commenced at the IUCN General Assembly in Perth, Australia November, 1990.

Like all Specialist Groups of the SSC, CBSG is a network of volunteers. Currently, CBSG has 300 members in 37 countries. CBSG publishes a newsletter distributed to about 5000 individuals and institutions in 150 countries.

However, volunteerism alone has proven inadequate to accomplish the core activities of CBSG so a number of Specialist Groups including CBSG have been establishing secretariats and employing paid staff. A paid Personal Assistant (Judi Mikolai) to Dr. Seal was added in 1988. The staff was expanded to include an Executive Officer (Thomas J. Foose) and part-time Editor for CBSG NEWS (Terry Kreeger) in 1990, a Secretary (Lisa Laqua) in 1991.

The Steering Committee for CBSG has been active and has convened 4 times in the last year: December 1990 at Marwell Zoological Park, in February 1991 at Minnesota Zoo, in June 1991 at Cologne Zoo, and in August 1991 at Fossil Rim Wildlife Center. Current members are William Conway (USA), Bert DeBoer (Netherlands), Thomas Foose (USA), Paul Garland (New Zealand), Jim Jackson (USA), John Knowles (UK), Jeremy Mallinson (UK), Doug Myers (USA), Gunter Nogge (Germany), Robert Reece (USA), Kathryn Roberts (USA), Christian Schmidt (Switzerland)

Operating support for the core activities of CBSG Office has derived mostly from contributions by zoos and zoo associations around the world. Currently 61 zoos and 6 zoo associations contribute to the Annual Operating Budget of \$ 358,000. Of these contributors, 36 are in North America, 31 elsewhere.

During 1991, CBSG has established a Foundation, the Global Captive Conservation Network which is incorporated as a 501(c)3 non-profit corporation in the State of Minnesota (Articles of Incorporation attached), to facilitate and expand fund-raising for core support. The Global Captive Conservation Network is incorporated in the state of Minnesota. Copies of the Articles of Incorporation and Bylaws of the Foundation are available upon request.

The AAZPA has generously contributed to the core support of CBSG in the past: 1987 (\$9,000), 1988 (\$12,000), 1989 (\$13,200), 1990 (\$15,000) and 1991 (\$15,000). This proposal requests continuation of support of CBSG core activities. Despite increasing financial need, CBSG is requesting support from the AAZPA C.E.F. at a \$10,000 level which represents the standard amount from each of the primary contributors (currently 20 institutions and organizations). Contributions from AAZPA are used specifically for staff salaries.

MISSION AND GOALS

The mission of the CBSG is the conservation or establishment of viable populations of endangered species. Achievement of this mission is largely through captive propagation programs. Thus, the primary goal of the CBSG is to catalyze, facilitate, and coordinate global captive propagation programs as a component of conservation strategies for threatened taxa. However, viable conservation strategies will require interactive and intensive management of both captive and wild populations. Hence, a secondary goal of CBSG is to contribute to formulation of viable population and conservation action plans involving intensive protection and management of small and fragmented populations in the wild as well as captive propagation programs. Within the SSC, CBSG is intended to be the major link between the captive community and the field conservationists in the other Specialist Groups.

Pursuit of these missions and goals is reflected in the core activities of CBSG. These core activities will advance the development of captive propagation programs as a component of viable conservation strategies for threatened species worldwide. As such, they will contribute to achievement of the goals and objectives of AAZPA SSP and other conservation programs.

CORE ACTIVITIES

Coordination of Global Captive Propagation Programs

Organized captive propagation programs have now developed in regions of the zoo world. About 150 taxa have been designated for programs in at least one region. Already there is considerable overlap. There is great and growing need for more formal integration and coordination of regional programs into international ones. Largely through and with its Regional Conservation Coordinators Committee, the CBSG is increasingly performing this function. Attached is the agenda for the next Regional Conservation Coordinator's Committee Meeting in Singapore 27 September 1991 to indicate the nature and scope of these activities.

Guidelines (Biological and Organizational) for Interactions among Regional Captive Breeding Programs.

Interactions and coordination of regional programs should be primarily guided by biological objectives and considerations. Some very preliminary guidelines in this respect were proposed by the CBSG Regional Conservation Coordinators Committee in Copenhagen last year. However, there is need to elaborate general models and principles for optimal biological interaction. CBSG proposes to continue and intensify this process during 1992. There has also been a need identified to consider what sorts of organizational conventions and protocols may be useful to facilitate the biological interactions.

Advice and Assistance on Global Masterplans

There have been only a few attempts to formulate global masterplans programs and to integrate regional programs into truly international schemes: Przewalski horse, okapi, red panda. CBSG has been involved in each of these efforts. Results have been variable. Much more work is needed. Over the next year, CBSG proposes to organize through the Regional Conservation Coordinators Committee 4-6 model global masterplans. Among possible candidates are tiger, orangutan, black rhino, addax, Partula. Selection of taxa and other details will be discussed at the CBSG Meeting in Singapore.

Formulation of Global Captive Action Plans

CBSG is currently engaged in the formulation of Global Captive Breeding Action Plans for vertebrate taxa in conjunction with the relevant Taxonomic Specialist Groups of the IUCN SSC and the Regional Taxon Advisory Groups or their equivalent within the captive community. A Global Captive Action Plan provides a strategic framework for effective and efficient allocation of captive resources to conservation of the broad group of taxa of concern, i.e. an order, family, etc. Toward this end, a Captive Action Plan evaluates all taxa in the broad group taxon-by-taxon to determine if needed intensive management attention based on their status in the wild and their taxonomic uniqueness. The Captive Action Plan provides a set of recommendations about:

- (1) What taxa are in need of intensive management attention, i.e.:
 - (A) Captive propagation programs;
 - (B) Intensive (captive-type) management in the wild; (The captive community can assist with transfer of technology and limited adopt-a-sanctuary like support) -- Natural sanctuaries as megazoos;
 - (C) Population Viability Assessment and Conservation Action Plan (PVA/CAP) Workshops.
 - (D) In situ and ex situ research where the captive community can reasonably assist: e.g., taxonomic clarification, some survey support.
- (2) How taxa already in captivity are optimally managed relative to conservation needs of the broad group of taxa under consideration.

The Global Action Plans provide general recommendations about taxa priorities, target populations and space/resource allocation. Within this global context, Regional Taxon Advisory Groups will formulate and implement more detailed Regional Collection Plans. Actually, as depicted on the attached flow chart, development of both the Global Captive Action Plans and Regional Collection Plans are very interactive and dynamic process. The Chairs of Regional TAG's are members of the CBSG Global Action Plan Working Groups.

The first of the Global Captive Action Plans are for the Primates, Felids, Waterfowl, Hornbills, and Cervids for which initial workshops are being conducted during 1991. The first edition of the Primate Global Captive Action Plan will be published as a prototype before the CBSG Annual General Meeting in Singapore.

During 1992, it is intended to add the other groups of mammalian carnivores and ungulates, psittacines, and collaborate with the herp community on several groups, especially turtles. Ultimately, it is intended to review all of the vertebrate and selected invertebrate taxa in an effort to develop overall priorities and priorities within similar groups of taxa (in terms of their use of resources). The intention is to complete at least 60 of these surveys and plans within 5 years and to maintain them as active and ongoing documents.

Facilitation and Coordination of Interaction Among Regional TAG's.

Regional Taxon Advisory Groups are vital components in both the formulation and implementation of Global Captive Action Plans. AAZPA is leading the world in development of TAG's. CBSG has been working closely with a number of the AAZPA TAG's to develop their own programs but also to initiate the Global Captive Action Plan Process. However, TAG development is vital in all regions to maximize efficient and effective utilization of captive space and resources for conservation. During 1992 CBSG will intensify its efforts to assist in development of TAG's in other regions. Primary targets for 1992 will be Australasia, where a very good start is under way, and Europe, where the early efforts have been more difficult. Japan will also receive attention, although there basic "SSP" development is an equal priority.

Facilitation and Coordination of Global Faunal Interest Groups (FIG's).

During 1992, development will continue on Global Faunal Interest Groups. The Global FIG's will provide the collective vehicle and umbrella for interaction with the geographic areas of the FIG's interest. It is envisioned that Regional FIG's will serve primarily as information and reporting mechanisms with each Region of the zoo world.

A major workshop for the Madagascar FIG will be conducted in March 1992. Various activities including establishment of *in situ* presence is proposed for Indonesia-Malaysia and will be advanced during the visits to South East Asia in September/October 1991 in conjunction with the CBSG Annual General Meeting.

More Regional and International CBSG Meetings to Advance Core Activities.

To advance the various core activities relating to captive programs, CBSG has instituted in 1990-1991, and will extend during 1992, regional meetings in conjunction with both and special conferences in various regions including:

- CBSG General Annual Meeting (Copenhagen 1990, Singapore 1991)
- CBSG Regional Conservation Coordinator's Meeting (Amsterdam 1990, Singapore 1992).
- AAZPA Annual (Indianapolis 1991 and San Diego 1991); in 1992 at least 1 Regional AAZPA Conference will be added.
- EEP Annual Conference (Cologne 1990, Budapest 1991, Marwell 1992)
- Australasian Zoo Association Conferences and Workshops (Christchurch and Perth 1990, Currumbin 1992)

- Japanese Zoo Association (JAZGA) Species Survival Committee Meetings (Nagoya 1990, Kobe 1991)
- Brazil Zoo Association (Ilha Soteira 1991, 1992).
- Southeast Asian Zoo Association (Chiang Mai 1991).
- 6th Breeding Endangered Species Conference - Isle of Jersey (1992).
- IUCN SSC and General Assembly (Perth 1990)

Especial priority at the 1992 zoo association meetings will be directed to Regional Taxon Advisory Groups (TAG's).

Assistance on Development/Dissemination of Population Management Technology

CBSG will continue its activities in this area. With specific reference to AAZPA, CBSG will work with the Small Population Management Advisory Group toward further improvements in the masterplan software and process and participates as faculty for the SPMAG Workshops 1991 and 1992. CBSG is contributing to the development and conduct at the AAZPA Conservation Academy. The CBSG Executive Officer serves on the Science and Advisory Board for the Academy. Beyond North America, CBSG in 1992 will increase its efforts, in collaboration with other parties (AAZPA, Smithsonian, etc.) to transfer this technology to other parts of the zoo world. Especial attention will be directed to Indonesia and Japan, the first of which has great interest for AAZPA, the second significant impact. For Indonesia, a Studbook/SSP Workshop will be proposed under CBSG auspices. For Japan, such a workshop will be proposed by Dr. Seal at this year's JAZGA SSC Meeting. CBSG will also assist with preparation of the Standard Species Coordinator's Manual that is being developed as a joint project with the EEP and SSP and hopefully other zoo regions. Finally, the CBSG Office has now assumed responsibility for distribution and will continue to contribute to development of PVA Software.

Population and Habitat Viability Analyses as Basis for Conservation Action Plans.

Population Viability Assessment (PVA) Workshops and publication of the results have emerged as an important activity of the CBSG during the past 2 years. The success of this program has led to increasing emphasis on small population biology and management as applied to wild and captive populations as an activity of CBSG. The workshops characteristically involve an assessment of the status of the species in the wild, quantitative estimates of extinction risks under circumstances, and the effects of alternative management scenarios on these risks.

Workshops have been conducted for the Florida panther (2 workshops), black-footed ferret, Puerto Rican parrot, Puerto Rican Plain Pigeon, Javan rhinoceros, Bali starling, Mexican wolf, Leontopithecus species, Florida Key Deer, Pink Pigeon, Mountain nyala, Simien jackal, and Swaynes hartebeest, aridland antelopes, the red wolf, and the Przewalski's horse.

In later 1991 and 1992, workshops are planned for the African hunting dog, Sumatran and Javan rhinos, Caribbean parrots, Waldrapp ibis, whooping crane, Kirtland's warbler, piping plover, Karner Blue butterfly, spectacled bear, white-winged woodduck, Tana River mangabey and colobus monkey, several Asian hornbills, several lemurs, and several fish.

The scope of these workshops is being expanded to include the entire protected area, other species, local human population trends, local land usage practices, and global warming scenarios. This approach will be used in the Tana River, Mauritius, Madagascar, White-winged Woodduck, and Spectacled Bear Workshops.

Special/Problems Relevant to AAZPA and the Captive Community

- Disease

CBSG working in collaboration with the AAZPA, other regional zoo associations, IUDZG, and Veterinary Specialist Group proposes an International Symposium to assemble the current state of the art on problems of disease risk assessment in wild and captive populations, comparative risk assessment, and development of strategies and protocols for the conduct of release programs to minimize the risks of introduction of new diseases into wild populations. A planning meeting for this workshop was conducted 28-29 May 1991 with support provided by the AAZPA. The briefing book for this meeting is on file at the AAZPA Conservation Center. This International Symposium would provide a basis for development of protocols and procedures for screening, testing, quarantine, and establishment of research priorities for disease in captive populations and in preparation for reintroduction programs. Copies of the report of the planning meeting are available upon request from CBSG and will be distributed at Singapore.

- "Subspecies", Hybrids, Reintroduction, Translocations and Genetic Augmentation

A meeting of this group occurred 30-31 May 1991 at NZP. The workshop was funded by the USFWS in the interest of gathering advice to be used for the extended Environmental Assessment that is being prepared for the Florida Panther Recovery Program. This work will be extended to provide better perspective on genetic issues of "subspecies", reintroduction, translocations, etc. Copies of the report of this meeting are available upon request from the CBSG and will be distributed at Singapore.

- Transponders

A report on transponders of major interest to all zoos and aquariums has been prepared by the CBSG Transponder Working Group. Transponders provide a technology for unobtrusive permanent individual animal identification applicable across nearly all vertebrates and some invertebrates. Registration of this number with ISIS can further provide the world's zoos with an important technique for tracking individual animals throughout their lifespan which is essential for scientific management of animal populations in captivity.

Based on scientific comparisons, the CBSG Transponder Working Group selected the Trovan/A.E.G. transponder system as the recommended system for use by all of the world's zoos and aquariums. These results and recommendations have been published in CBSG NEWS as the major means of dissemination to national and regional zoo associations and to more than 1200 zoos and aquariums in 147 countries that received this Newsletter.

The report has also been provided direct to AAZPA and to regional and international agencies and organizations (S.S.C, I.U.C.N., C.I.T.E.S., E.E.C., Trade International, U.S.F.W.S., etc.) along with the recommendation that they consider adoption of similar standards.

CBSG will continue its efforts to recommend, standardize and coordinate and use of transponders in captive animals and populations. A report on transponders of major interest to all zoos and aquariums has been presented to the AAZPA and published in the Newsletter.

- Wildlife Regulation Problems

Regulations governing the movement of endangered taxa (ESA, CITES) have become cumbersome and slow to the point that global species conservation and captive propagation programs are being increasingly impeded. CBSG is interested in assisting development of working groups and plans, initially in the United States, but eventually around the world to explore ways of mitigating the obstructive effects of the regulatory process without diminishing their effectiveness. An proposal for a Working Group on this problem has been circulated to persons on the AAZPA Board, Conservation Center, and WCMC on this problem.

CBSG NEWS

Production of a Newsletter for CBSG, CBSG NEWS, commenced in 1990 with publication of 3 issues. In 1991, 4 issues will be published. CBSG NEWS is now being distributed to more than 5000 people in 150 countries. This includes persons representing more than 1200 zoos and aquariums as well as many wildlife agencies and conservation organizations, journalists, and officials. This newsletter is emerging as the most and only truly international forum for captive propagation. AAZPA and the EEP submit regular contributions; representatives of other regions occasionally. During 1992, there will be an attempt to recruit regular contributions from more regions. CBSG will continue to solicit input from CBSG members on format and content of the newsletter.

SOME SPECIFIC ACTIVITIES SINCE MID-YEAR REPORT

PVA Training Workshop
Brazil Zoo Association Conference
Leontopithecus PVA/Action Plan Workshop
Desert Tortoise Council Meeting
Primate Global Captive Action Plan Workshop
AAZPA Small Population Management Advisory Group Workshop
Pink Pigeon PVA
Felid Global Captive Action Plan/Taxon Advisory Group Workshop
Bonobo Workshop
San Diego Rhino Conference
EEP Annual Conference
Disease Working Group Meeting
Hybrid/Subspecies Working Group Meeting
Panda Workshop
Waldrapp Ibis Meeting
Wild Cattle Reproductive Technology Meeting
Wildlife 2001 Conference
Whooping Crane PVA



AAZPA CONSERVATION CENTER

7970-D Old Georgetown Road, Bethesda, MD 20814
(301) 907-7777 Fax: 301-907-2980

NOV 19 1990



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November 6, 1990

Mr. Robert Wagner
Executive Director
AAZPA
Oglebay Park
Wheeling, WV

Dear Bob:

I've given the matter considerable thought, but have decided to decline your generous offer to attend the SSC Meetings in Perth. I have far too much to do in the office to justify taking the trip, especially since it will be very expensive and several other AAZPA representatives are already going. In addition, it is likely that I will be travelling to Australia in early 1992 for a strategic meeting on marsupials and monotremes.

I've enclosed a copy of the AAZPA/CBSG Memorandum of Understanding for you to sign. Would you mind sending it along to Dave Zucconi for his signature and ask Dave if he would send it to Ulie? The signed document would then come back to the Conservation Center. I'll make and distribute copies to you, Dave Jenkins, the AAZPA Board of Directors and CBSG.

Thank you.

Sincerely,

Michael Hutchins, Ph.D.
Director, Conservation & Science

cc: D. Jenkins, U. Seal, T. Foose, C. Wemmer, B. Read, C. Wemmer

**MEMORANDUM OF UNDERSTANDING BETWEEN THE AMERICAN
ASSOCIATION OF ZOOLOGICAL PARKS AND AQUARIUMS AND THE
INTERNATIONAL UNION FOR THE CONSERVATION OF NATURE
AND NATURAL RESOURCES'
CAPTIVE BREEDING SPECIALIST GROUP**

The American Association of Zoological Parks and Aquariums (AAZPA) and the International Union for the Conservation of Nature and Natural Resources' Captive Breeding Specialist Group (IUCN CBSG) hereby establish a set of principles governing their working relationship. Representatives of both institutions have agreed in principle to the following nonbinding provisions:

I. Objective

The objective of the collaborative relationship between AAZPA and IUCN CBSG is to help zoos and aquariums fulfill their important roles as conservators of the world's wildlife. The SSP and CBSG both have as goals the use of captive propagation to assist in prevention of species extinctions and promotion of species conservation in natural habitats. To achieve these goals, both organizations recognize the need for a team-oriented approach. The ties outlined here are intended to facilitate communication and participation across organizational lines and to foster cooperation.

II. Ties and Lines of Communication

A. AAZPA Board of Directors

- (1) will be provided with semi-annual reports on the activities of the CBSG, which includes activities related to the SSP.
- (2) will be represented on the CBSG Strategic Planning Committee.
- (3) will receive copies of the CBSG NEWSLETTER.
- (4) may provide funding support to the CBSG through its Conservation Endowment Fund application process.

B. AAZPA Director of Conservation and Science

- (1) will be a member of CBSG.
- (2) will be the initial or a concurrent contact by CBSG for CBSG-initiated proposals on conservation or scientific programs that involve cooperation between AAZPA institutions or other members and CBSG, and participates in all decisions or actions that originate from those proposals.

(3) will serve as an advisor to the CBSG Chairman and/or Executive Officer on matters related to AAZPA conservation and scientific programs.

(4) will be a member of the CBSG International Regional Coordinator's Committee.

(5) will be provided copies of all items pertaining to SSP species that are received in the CBSG Office.

(6) has a standing invitation to attend and participate in CBSG PVA workshops.

(7) will provide a column on AAZPA conservation and scientific programs (or other topics) for the CBSG NEWSLETTER.

(8) will be invited to participate in the review of CBSG Action Plans and to assist in the preparation of those plans, where appropriate.

(9) will be provided a semi-annual report of CBSG activities and projects.

(10) will be provided a free copy of all CBSG reports relevant to AAZPA conservation and scientific programs (e.g., Action Plans, PVAs, international consortia, CBSG Briefing Books, etc.), and similarly, will provide a free copy of all relevant AAZPA publications to CBSG (e.g. AAZPA Annual Report on Conservation and Science, Conference Proceedings, etc.).

(11) will work closely with the CBSG in the development of international programs which involve SSP taxa.

(12) will attend and participate in annual meetings of the CBSG.

(13) will be the key person in the AAZPA to reciprocate in communication by providing the CBSG Office with copies of reports, correspondence and materials that pertain to species conservation beyond internal AAZPA matters.

C. AAZPA WCMC Chair

(1) will be a member of CBSG.

(2) will be provided all communications and is invited to participate in all activities as described for the AAZPA Director of Conservation and Science.

D. Taxon Advisory Group Chairs

- (1) will be members of CBSG.
- (2) will be members, frequently the chairs, of CBSG Action Plan Working Groups.
- (3) will be provided with a copy of all important items pertaining to their taxon that are received in the CBSG Office.
- (4) will be provided a copy of CBSG Captive Breeding Action Plans pertaining to their taxon.
- (5) will provide CBSG with information and assistance in the development of Captive Breeding Action Plans pertaining to their taxa.

E. SSP Species Coordinators

- (1) will be members of CBSG.
- (2) will be represented on any working group, coordinating committee, or discussion network organized under CBSG auspices involving their taxon.
- (3) will have standing invitations to attend and participate in any CBSG PVA workshop involving their taxon.
- (4) will suggest problems that need international cooperation and participate in the process of developing an international activity or program.
- (5) will frequently be global species coordinators or international studbook keepers for their taxon.

F. CBSG Chair or Executive Officer

- (1) will be an advisor to the AAZPA WCMC and AAZPA Director of Conservation and Science (Regular consultation to occur by telephone, mail or FAX).
- (2) will serve as AAZPA Presidential Advisor on matters pertaining to the WCMC.
- (3) will be an advisor to several AAZPA TAGs, SSPs, consortia and trusts.
- (4) will be a member of the AAZPA Conservation Academy's Science and Advisory Board and faculty.

(5) will organize and conduct PVA workshops for endangered species (some with SSP programs, some with no SSP program, and some with no captive population but as potential candidates for captive propagation) in cooperation with the AAZPA Director of Conservation and Science, WCMC, TAG chairs, SSP coordinators and other zoo and aquarium professionals and scientists.

(6) will attend and participate in annual and selected regional meetings of the SSP and AAZPA.

(7) will attend special meetings of individual SSP propagation committees.

(8) may provide articles or announcements for publication in the AAZPA COMMUNIQUE.

(9) will participate in the preparation of SSP masterplans upon invitation by the species coordinator and AAZPA Director of Conservation and Science.

III. Responsibilities of IUCN CBSG and AAZPA.

A. AAZPA

The AAZPA Board, Executive Director, Conservation Center staff, WCMC, TAGs, SSPs, Consortia, Task Forces and Trusts:

(1) are responsible for organizing, coordinating and administering the regional conservation and related scientific programs of AAZPA member institutions, including but not restricted to the SSP.

(2) are responsible for coordinating and/or monitoring international conservation and scientific projects and/or programs initiated under the auspices of AAZPA.

B. CBSG

(1) provides advice to the IUCN on all new International Studbook applications, and monitors the status and activity of such studbooks.

(2) serves as review and advisory body to the IUCN SSC and SSC Specialist Groups on ongoing captive propagation programs, initiation of new programs and on interactions between captive and wild populations.

(3) prepares Captive Propagation Actions Plans which identify priority species for captive breeding programs (based on status in the wild,

current status in captivity, etc.). (These are provided to the regional TAGs for further review and possible action).

(4) conducts an annual meeting at which many working groups meet to discuss problems crossing national boundaries, make recommendations, and form international task forces (consortia, trusts, informal agreements) to undertake specific projects or programs. The results of the meeting are published and distributed to all members and participants.

(5) prepares and provides an annual briefing document for distribution at the CBSG Annual Meeting. This book provides reports from working groups, materials for the working groups and information of general interest for captive propagation programs.

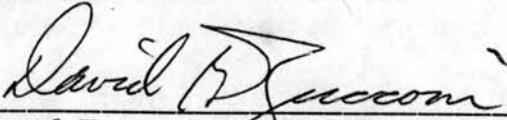
(6) is involved in the organization and facilitation of multi-regional cooperative programs. More specifically, the CBSG serves a similar function and relationship to the regional programs that the AAZPA Conservation Center has to the SSP (through its newly-formed International Regional Coordinator's Committee).

(7) advises and aids in the preparation of global masterplans and in the selection of global species coordinators (through its newly-formed International Regional Coordinator's Committee).

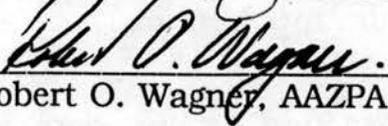
(8) are actively involved in the development of new information and software packages and resources for use in species conservation programs.

The working relationship described above will be implemented on a trial basis beginning on 1 November 1990. The program will be reviewed after one year and, if both parties agree, the Memorandum of Understanding may be extended.

We have read the Memorandum of Understanding issued by the American Association of Zoological Parks and Aquariums and the International Union for the Conservation of Nature and Natural Resources' Captive Breeding Specialist Group and agree to abide by the terms and conditions thereof:



David Zucconi, AAZPA President



Robert O. Wagner, AAZPA Executive Director

Ulysses S. Seal, Chairman, IUCN CBSG



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(4) will be a member of the CBSG International Regional Coordinator's Committee.

(5) will be provided copies of all items pertaining to SSP species that are received in the CBSG Office.

(6) has a standing invitation to attend and participate in CBSG PVA workshops.

(7) will provide a column on AAZPA conservation and scientific programs (or other topics) for the CBSG NEWSLETTER.

(8) will be invited to participate in the review of CBSG Action Plans and to assist in the preparation of those plans, where appropriate.

(9) will be provided a semi-annual report of CBSG activities and projects.

(10) will be provided a free copy of all CBSG reports relevant to AAZPA conservation and scientific programs (e.g., Action Plans, PVAs, international consortia, CBSG Briefing Books, etc.), and similarly, will provide a free copy of all relevant AAZPA publications to CBSG (e.g. AAZPA Annual Report on Conservation and Science, Conference Proceedings, etc.).

(11) will work closely with the CBSG in the development of international programs which involve SSP taxa.

(12) will attend and participate in annual meetings of the CBSG.

(13) will be the key person in the AAZPA to reciprocate in communication by providing the CBSG Office with copies of reports, correspondence and materials that pertain to species conservation beyond internal AAZPA matters.

C. AAZPA WCMC Chair

(1) will be a member of CBSG.

(2) will be provided all communications and is invited to participate in all activities as described for the AAZPA Director of Conservation and Science.

D. Taxon Advisory Group Chairs

- (1) will be members of CBSG.
- (2) will be members, frequently the chairs, of CBSG Action Plan Working Groups.
- (3) will be provided with a copy of all important items pertaining to their taxon that are received in the CBSG Office.
- (4) will be provided a copy of CBSG Captive Breeding Action Plans pertaining to their taxon.
- (5) will provide CBSG with information and assistance in the development of Captive Breeding Action Plans pertaining to their taxon.

E. SSP Species Coordinators

- (1) will be members of CBSG.
- (2) will be represented on any working group, coordinating committee, or discussion network organized under CBSG auspices involving their taxon.
- (3) will have standing invitations to attend and participate in any CBSG PVA workshop involving their taxon.
- (4) will suggest problems that need international cooperation and participate in the process of developing an international activity or program.
- (5) will frequently be global species coordinators or international studbook keepers for their taxon.

F. CBSG Chair or Executive Officer

- (1) will be an advisor to the AAZPA WCMC and AAZPA Director of Conservation and Science (Regular consultation to occur by telephone, mail or FAX).
- (2) will serve as AAZPA Presidential Advisor on matters pertaining to the WCMC.
- (3) will be an advisor to several AAZPA TAGs, SSPs, consortia and trusts.
- (4) will be a member of the AAZPA Conservation Academy's Science and Advisory Board and faculty.

(5) will organize and conduct PVA workshops for endangered species (some with SSP programs, some with no SSP program, and some with no captive population but as potential candidates for captive propagation) in cooperation with the AAZPA Director of Conservation and Science, WCMC, TAG chairs, SSP coordinators and other zoo and aquarium professionals and scientists.

(6) will attend and participate in annual and selected regional meetings of the SSP and AAZPA.

(7) will attend special meetings of individual SSP propagation committees.

(8) may provide articles or announcements for publication in the AAZPA COMMUNIQUE.

(9) will participate in the preparation of SSP masterplans upon invitation by the species coordinator and AAZPA Director of Conservation and Science.

III. Responsibilities of IUCN CBSG and AAZPA.

A. AAZPA

The AAZPA Board, Executive Director, Conservation Center staff, WCMC, TAGs, SSPs, Consortia, Task Forces and Trusts:

(1) are responsible for organizing, coordinating and administering the regional conservation and related scientific programs of AAZPA member institutions, including but not restricted to the SSP.

(2) are responsible for coordinating and/or monitoring international conservation and scientific projects and/or programs initiated under the auspices of AAZPA.

B. CBSG

(1) provides advice to the IUCN on all new International Studbook applications, and monitors the status and activity of such studbooks.

(2) serves as review and advisory body to the IUCN SSC and SSC Specialist Groups on ongoing captive propagation programs, initiation of new programs and on interactions between captive and wild populations.

(3) prepares Captive Propagation Actions Plans which identify priority species for captive breeding programs (based on status in the wild,

current status in captivity, etc.). (These are provided to the regional TAGs for further review and possible action).

(4) conducts an annual meeting at which many working groups meet to discuss problems crossing national boundaries, make recommendations, and form international task forces (consortia, trusts, informal agreements) to undertake specific projects or programs. The results of the meeting are published and distributed to all members and participants.

(5) prepares and provides an annual briefing document for distribution at the CBSG Annual Meeting. This book provides reports from working groups, materials for the working groups and information of general interest for captive propagation programs.

(6) is involved in the organization and facilitation of multi-regional cooperative programs. More specifically, the CBSG serves a similar function and relationship to the regional programs that the AAZPA Conservation Center has to the SSP (through its newly-formed International Regional Coordinator's Committee).

(7) advises and aids in the preparation of global masterplans and in the selection of global species coordinators (through its newly-formed International Regional Coordinator's Committee).

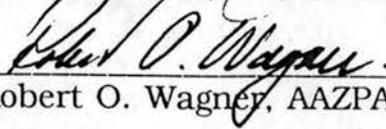
(8) are actively involved in the development of new information and software packages and resources for use in species conservation programs.

The working relationship described above will be implemented on a trial basis beginning on 1 November 1990. The program will be reviewed after one year and, if both parties agree, the Memorandum of Understanding may be extended.

We have read the Memorandum of Understanding issued by the American Association of Zoological Parks and Aquariums and the International Union for the Conservation of Nature and Natural Resources' Captive Breeding Specialist Group and agree to abide by the terms and conditions thereof:



David Zucconi, AAZPA President



Robert O. Wagner, AAZPA Executive Director

Ulysses S. Seal, Chairman, IUCN CBSG

Steering Committee
JAN 31 1991

American Association of Zoological Parks and Aquariums

Executive Office, Oglebay Park, Wheeling, WV 26003-1698
(304) 242-2160 Fax: 304-242-2283

◆ A nonprofit, tax-exempt organization dedicated to the advancement of zoological parks and aquariums for conservation, education, scientific studies and recreation. ◆



28 January 1991

Ulysses Seal, Ph.D.
Captive Breeding Specialist Group
12101 Johnny Cake Ridge Road
Apple Valley, MN 55124

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J. STEPHEN McCUSKER

Dear Ulie:

Upon the advice of several AAZPA members, I am establishing an International Relations Committee. I have asked Chris Wemmer to serve as Chairman and Clayton Freiheit as Vice-Chairman. Please accept this request that you serve on the committee.

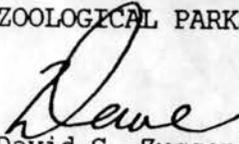
Understanding that many zoo and aquarium directors and other senior staff members have a great deal of responsibility, Chairman Wemmer and I have discussed the possibility of forming the committee with a two-tiered approach. In other words, he will be asking each member to appoint an alternate person on the staff to assist with the work of the committee and to represent the committee member in his/her absence. Chris will be in touch with all committee members soon with specific assignments and some details on the goals and objectives of the committee.

It is not necessary for you to confirm your appointment to this committee. If I have not heard from you by 15 February, your appointment will stand.

Thank you for your continued willingness to serve AAZPA.

Most sincerely,

AMERICAN ASSOCIATION OF
ZOOLOGICAL PARKS AND AQUARIUMS


David G. Zucconi
AAZPA President

DGZ/jkw

Copies to: Chris Wemmer
Bob Wagner



Captive Breeding Specialist Group

Species Survival Commission
IUCN – The World Conservation Union
U. S. Seal, CBSG Chairman

U. S. Seal Schedule - 1991

4 February 1991

- January 5 - 8 Washington, DC: Meet with Wemmer, Wildt, Miller, Bush, Ballou, Hutchins, and others.
- 18 - 25 Bogor, Indonesia: Extension of PVA for Javan and Sumatran Rhinos and further planning. CANCELED.
- 26 - 3 Arusha, Tanzania: African wild dog PVA workshop with Canid SG. CANCELED.
- February 7 - 8 Minneapolis: CBSG Committee Mtg.
- 15 - 17 Atlanta: Zoo Society talks.
- March 1 - 6 Brazil: Leontopithecus Mgmt., Brazilian Zoo meetings
- 8 - 10 California: Desert Tortoise Council Mtg.
- (10 - 12 Asheboro, NC: AAZPA SE Regional - Bird Curators)
- 12 St. Paul: Student exam
- 13 - 15 MN Zoo: Primate CB Action Plan Mtg.
- 18 - 20 Washington, DC: SSC Steering Committee
- 23 - 24 Madison, WI: Vet Symposium - 3 talks
- 25 - 30 St. Vincent: Caribbean parrot PVA

| | | |
|--------|----------|---------------------------------------|
| April | 2 - 3 | Washington, DC: Talk at SI |
| | 4 - 8 | Front Royal |
| | 13 - 15 | Jersey: Pink Pigeon PVA, Talk |
| | 26 - 27 | MN Zoo: Coral Reef Symposium |
| May | 6 - 7 | San Diego, CA: Bonobo workshop |
| | 9 - 11 | San Diego, CA: Rhino Symposium |
| | 13 - 15 | Budapest, Hungary: EEP meeting |
| | 21 - 22 | Toledo: Zoo Talk |
| | 27 - 29? | Waldrapp Ibis PVA - Wuppertal |
| June | 2 - 7 | Washington, DC: Panda Mtg and PVAs |
| | 18 - 22 | Madison, WI: Conservation Biology Mtg |
| July | 4 - 10 | Tigers - MZG |
| | 25 - 26 | Minneapolis, MN: World Future Mtg. |
| | 29 - 31 | Berkeley, CA: Wildlife 2001 Conf. |
| August | 6 - 8 | Whooping Crane PVA |
| Septem | 23 - 26 | Singapore: Hornbill Workshop |
| | 27 - 29 | Singapore: CBSG Meeting |
| | 30 - 1 | Singapore: IUDZG |

October 2 - 4? Bangkok, Thailand: Wild Cattle PVA Workshop
6 - 9 Kobi, Japan: JAZGA SSCJ Mtg and Filming

Unscheduled as yet:

Madagascar Primates PVAs (Madagascar)
Disease Working Group Mtg. (USA AND UK)
Hybridization Working Group Mtg. (USA)
Pan African Zoo Assoc Mtg (June-July) (Zaire)
SE Asian Zoo Assoc Mtg. (?)
Sao Paulo Seminars and Workshops (Brazil)
Tana River Mangabey and Colobus monkey PVAs (Kenya)
White-winged wood duck PVA (Thailand?)
Parrot CB Action Plan Group Mtg. (USA?)
CBSG Steering Committee Mtg. (?)
Felid TAG Mtg. (USA)
Mussels PVA
Fish Species PVA

*Steering
Committee*



Captive Breeding Specialist Group

Species Survival Commission
IUCN – The World Conservation Union

U. S. Seal, CBSG Chairman

Chris Banks
Melbourne Zoo
Box 74
Parkeville, Victoria
Australia

4 February 1991

Dear Chris,

I am delighted that you plan to attend the Singapore meeting of the CBSG. In case you have not received the initial information from Singapore a copy is enclosed. The only pre-meeting activity of the CBSG is plans for a Hornbill Action Plan Workshop during the 3 days preceding the CBSG meeting. I believe some people are planning a visit to Indonesia afterwards and we are exploring the possibility of an Asian Wild Cattle meeting in Thailand after the meeting. There is some information in the Newsletter.

I appreciate the offer for distribution of the Newsletter since we are trying to find ways to ship larger lots for distribution in as many regions as possible. Your suggestion to send to all members of ARAZPA and those participating in the Species Management Scheme sounds useful and effective. I am definitely interested in using the most effective and appropriate method for this purpose. To keep matters straight I am copying Taronga (Kelly) and Perth (DeJose) on this since both agreed to assist if needed. It is not clear to me whether you send to institutions or to individuals or both. We would like to include both where ever individuals have made a request to receive it. I will send you a copy of our mailing list for Australia so that you might give me an indication of accuracy and how thorough our coverage has been. Also we would like any addresses that we have missed to include in our mailing list. It would be our intention to send the batch of Newsletters with labels on them as means of knowing our recipients and perhaps facilitating your distribution.

My thanks and Best wishes,

U. S. Seal

cc: Kelly, DeJose

Fax. (03) 347 8132

FACSIMILE TRANSMISSION

TO: CBSG, Minnesota, U.S.A. FROM: Melbourne Zoo, Australia
Name: Ulie Seal, Chairman Name: Chris Banks, Curator (Herpetology)
Company: Date: 30 January, 1991
Fax. No.: (0011) (1) 612 - 432-2757 No. of Pages: 1
(including this)

If you do not receive specified number of pages, as above, please advise immediately on (Facsimile) (03) 347 8132 or phone (03) 347 1522.

Dear Ulie

As I mentioned when I last saw you, I am planning to attend this year's CBSG Meeting in Singapore. I need to have my application for funding from the Zoo in by the end of February (the Zoo has to seek permission from the State Government to fund me). What I would like from you if possible is any indication of pre/post meeting trips, visits to field sites, etc., etc. that may be in the wind - I need to include any costings and allocation of days for these at this time. Any indication of an itinerary, etc. at this stage would be a help.

On another matter, I spoke with John De Jose recently and he mentioned his conversation with you re getting CBSG News distributed more widely in the Australasian region. I am keen to support this and, as Editor of the ARAZPA Newsletter, would like to assist. Would we are proposing at this point is to send copies of CBSG News (with ARAZPA Newsletter) to those institutions in our region who have ARAZPA members, or which participate in the Species Management Scheme. How does that sound? If that meets with your approval, the copies of CBSG News would be sent direct to me (or Gaye Hamilton) as ARAZPA News is distributed from Melbourne. I can let you know how many copies we'd need when you reply. Next copy of ARAZPA News out this March. Look forward to hearing from you.

Regards



Chris Banks

TOKYO ZOOLOGICAL PARK SOCIETY

FEB - 1 1991

Steering
Committee



23rd January 1991

Dr. U. S. Seal
Chairman, Captive Breeding Specialist Group
SSC/IUCN---The World Conservation Union

Dear Dr. Seal,

I have received your letter of 24, Dec. 1990 and 14, Jan. 1991 and it was my great pleasure to see you in Nagoya participated SSC-J last October with Mr. K. Kawata.

I was sure that your nice advices and lecture gave great impacts to many young delegates that should be caused to more promoting power for ssp-programs in Japan.

I sincerely appreciate for your kindness to join again ssp-programs Japan this fall in Kobe and you also kindly help us your nice lectures for Japanese public.

I already talked with Dr. Tashiro and Mr. Komori as they have direct responsibility for ssp-programs on my proposal concerning your speeches for public including TV programs and special lectures. They are generally agreeable with my ideas, however, it seems to need to pass the committee meeting of JAZGA this February.

Anyhow, I am consulting with Dr. Tashiro and Mr. Komori and also Mr. Kawata on this matter. As you are very busy, we always contact with Mr. Kawata on the project.

By the way I'd like to join the meeting in Singapore, however, I have not invite the meeting of CBSG there. I look forward to seeing in Singapore.

sincerely,


Shigeharu Asakura, Director,
Tokyo Zoological Park Society

cc; Kawata

Steering
Committee



Captive Breeding Specialist Group

Species Survival Commission
IUCN – The World Conservation Union

U. S. Seal, CBSG Chairman

2 February 1991

Professor Alan T. Bull
International Institute of Biotechnology
P.O. Box 228
Canterbury
Kent CT2 7YW
UK

Dear Professor Bull,

My thanks for the formal letter of invitation to become a member of the editorial board of the new journal, 'Biodiversity and Conservation'. My interest continues and I accept your kind invitation to serve on the editorial board. I look forward to the Journal's success.

Please note my preferred address on this letterhead rather than the University or VA Hospital addresses. It is a reflection of the fact that I now spend most of my time on CBSG activities and work either at the CBSG office or home.

Best wishes,

U. S. Seal

cc: CBSG, Rabb

Biodiversity and Conservation

US
JAN 31 1991

Editor-in-Chief

Alan T. Bull
The International Institute of
Biotechnology
PO Box 228
Canterbury
Kent CT2 7YW
UK
Tel: +44 227 470623
Fax: +44 227 463482

Dr Ulysses S. Seal
Dept. of Ecology & Behavioural Biology
University of Minnesota
Minneapolis
MN 55455
USA

14th January, 1991

Dear Dr. Seal,

Editors

Harold G. Cogger
Australian Museum
6-8 College Street
PO Box A285
Sydney South
NSW 2000
Australia
Tel: +61 2 339 8111
Fax: +61 2 339 8304

I am writing to you about the new journal Biodiversity and Conservation which will be launched in 1991. You will see from the enclosed announcement that the scope of Biodiversity and Conservation is deliberately broad and multidisciplinary and I hope that you will share the belief of the Editors that the appearance of such a journal is much needed.

Ghilleen T. Prance
Royal Botanic Gardens
Kew, Richmond
Surrey, TW3 3AB
UK
Tel: +44 81 940 1171
Fax: +44 81 948 1197

The particular purpose of this letter is to invite you to become a Member of the Editorial Board (MEB) of Biodiversity and Conservation. Appointment to the Board is for the initial period of three years. My fellow Editors and I would be delighted and honoured if you are able to accept our invitation and I am taking the liberty of outlining the responsibilities which acceptance would entail. The Editorial Board is expected to be quite large in order to mirror the broadness of the journal's scope; a consequence of this decision is that no one MEB will be overburdened with manuscripts. The principal duty of the Board Member will be to referee papers in his or her specialist field(s) at the request of one of the Editors. As the journal develops occasions may arise when it is necessary/desirable for the MEB to select referees for particular papers.

Daniel Simberloff
Department of Biological
Science B-142
The Florida State University
Tallahassee
FL 32306-2043
USA
Tel: +1 904 644 3700
Fax: +1 904 644 9829

As Biodiversity and Conservation passes through its embryonic phase the MEBs also will have a crucial role in soliciting high quality papers for the journal as well as contributing papers from their own groups. The journal will be published quarterly but in the first year, 1991, two issues will appear. Naturally we hope that all MEBs will assist in promoting the journal but also take an active role in advising on the direction which Biodiversity and Conservation should take.

Advisory Editor

Ian R. Swingland
Durrell Institute of
Conservation and Ecology
University of Kent
Canterbury
Kent CT2 7NX
UK
Tel: +44 227 764000
Fax: +44 227 459025

Board Members will receive a complimentary copy of the journal from the Publisher. From time to time we will hold meetings of the Editorial Board.

This new journal is the inspiration of Ian Swingland and has evolved thus far as the result of enthusiastic inputs from Hal Cogger, Ghilleen Prance, Dan Simberloff, Ian and me. Each of us is excited by and committed to this new publishing venture and we do hope that you will join us in establishing Biodiversity and Conservation as a vigorous and influential journal. Please could you respond to this invitation as soon as possible? If you have any questions at this stage do not hesitate to write, phone or fax me. It will give my colleagues and I the greatest pleasure and encouragement for the success of the journal if you decide to come on board.

With my kind regards.
Yours sincerely,
Alan Bull

Professor Alan T. Bull
on behalf of the Editors

PS I was delighted to learn of your
initial response to the journal and look
forward very much to working with you.
ATB

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

Biodiversity and Conservation

Editor-in-Chief

Alan T Bull
The International Institute of
Biotechnology
PO Box 228
Canterbury
Kent CT2 7YW, UK
Fax: 44(0)227 463482

Editors

Harold G Cogger
Australian Museum
6-8 College Street
PO Box A285, Sydney South
NSW 2000, Australia
Fax: 61 2 339 8304

Ghilleen T Prance
Royal Botanic Gardens
Kew, Richmond
Surrey TW9 3AB, UK
Fax: 44(0)81 948 1197

Daniel Simberloff
Department of Biological Science,
B-142
The Florida State University
Tallahassee, FL 32306-2043, USA
Fax (1) 904 644-9829

Advisory Editor

Ian R Swingland
Durrell Institute of Conservation and
Ecology
University of Kent,
Canterbury, Kent CT2 7NX, UK
Fax: 44(0)227 459025

Editorial Board

An international board is being
appointed, it will include: Peter Ashton,
Rita Colwell, John Cooper, David
Goode, Michael Goodfellow, John
Hanks, Jeremy Mallinson, Russ
Mittermeier, Ulysses Seal, Howard
Slater.

Aims and Scope

Biodiversity and Conservation is a new quarterly international journal devoted to the publication of articles on all aspects of biological diversity, its description, analysis and conservation, and its controlled rational use by man.

The scope of **Biodiversity and Conservation** is wide and multidisciplinary, embracing all life-forms.

Research papers on biodiversity and conservation and contributions which deal with the practicalities of conservation management, economic, social and political issues and with case studies are welcome. The journal also provides a forum for examining the conflict between sustainable development and human dependence on biodiversity, especially in such fields as agriculture, environmental management and biotechnology.

The Editors encourage contributions from developing countries in order to realize proper global perspectives on matters of biodiversity and conservation.

Biodiversity and Conservation publishes papers of high quality original research; there is no lower limit on length provided that the scientific content is of an acceptable standard. Both solicited and unsolicited reviews on topical subjects are published and those interested in submitting such reviews should contact one of the Editors in the first instance. Correspondence and book reviews may be published if they contribute to understanding and knowledge in relevant fields. Special issues on important topics will be published on an occasional basis.

Pertinent topics include but are not necessarily restricted to:

- Assessment and monitoring of biodiversity
- Captive breeding and relocations
- Marine and coral reef biota
- Environmental planning and management
- Social and economic constraints on conservation
- Genetic diversity
- Restoration ecology
- Research and development of new biotechnological products
- *In situ* and *ex situ* preservation of biodiversity
- Responses to environmental change
- Species diversity and ecosystem function

Submission of papers

Authors should submit three copies of their paper to either the Editor-in-Chief or one of the Editors. Instructions for Authors are available from the Editors or the Publishers.

ORDER FORM

Biodiversity and Conservation

ISSN: 0960-3115

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Endangered Species Research

The first successful *in vitro* fertilization and embryo transfer ("test tube" reproduction) in Siberian tigers, *Panthera tigris* (in cooperation with the National and Omaha Zoos)

Reproductive biology of Asian small-clawed otters, *Aonyx cinerea*

Ontogeny of stallion behavior in a bachelor herd of Asian wild horses, *Equus przewalskii*

Reproductive cycle and pregnancy in Malayan tapir, *Tapirus indicus*

Communal suckling in a herd of Bactrian camels, *Camelus bactrianus*

Modeling neonatal growth for captive Siberian tiger cubs

Captive breeding of trumpeter swans, *Cygnus cygnus*

Captive biology of an asocial mustelid, ermine, *Mustela erminea*

The role of scent-marking in Siberian tiger communication

Reduction of aggressive behavior in lion-tailed macaques, *Macaca silenus*

Hatching and rearing a Minnesota common loon, *Gavia immer* - a first success

Behavioral and hormonal events of natural reproduction in female Siberian tigers

Seasonality and hormonal events in male Siberian tigers

The behavior of reproduction in red panda, *Ailurus fulgens*

Staff Responsibilities in Local and Global Conservation Efforts

Membership on the AAZPA Species Survival Plan for:

| | |
|--------------------------|--------------------------------|
| Asian Small-Clawed Otter | Malayan Tapir (Advisory Group) |
| Asian Wild Horse | Marine Mammal (Advisory Group) |
| Bali Mynah | Red Panda |
| Clouded Leopard | Tiger |
| Gibbon | |
| Lion-Tailed Macaque | |

Membership on the IUCN Species Survival Commission for:

Asian Primate Specialist Group
Captive Breeding Specialist Group
Cat Specialist Group
Hyena Specialist Group

Membership on ISIS Board of Directors

Book Reviews Editor of *Journal of Zoo Biology*

Adjunct Professorship on the faculty of the Wildlife Conservation Department, University of Minnesota

Membership on International Association of Zoo Educators

Wildlife Conservation in Action: The Minnesota Zoo's Adopt-A-Park Program, Java, Indonesia

In 1990, "the Minnesota Zoo entered into an agreement with the Indonesian Directorate General of Forest Protection and Nature Conservation to work together to protect the ecological stability of Ujung Kulon National Park and thus ensure the long-term survival of the Javan rhinoceros."

Edward Dayton
Chairman, Minnesota Zoo Board of Directors

To help the Minnesota Zoo protect this threatened ecosystem and the world's last population of 50 Javan rhinoceros and other wildlife conservation efforts, send your contribution to:

Minnesota Zoo Foundation/Adopt-A-Park
13000 Zoo Boulevard
Apple Valley, MN 55124

Wildlife Conservation in Action

A Division of the Minnesota Zoo

Conservation and Education Projects

Adopt-A-Park Program, an *in situ* conservation project in Ujung Kulon National Park, Java, Indonesia (with Indonesian Department of Nature Conservation)

Coordination of the Siberian tiger breeding program of the AAZPA's Tiger Species Survival Plan (SSP)

Host to the IUCN Species Survival Commission's Captive Breeding Specialist Group, located at the Minnesota Zoo

Development and coordination of the AAZPA Gibbon SSP

Trumpeter swan breeding and reintroduction program (with Minnesota DNR)

Recipient of National Science Foundation (NSF) grant for Young Scholars Program (ZooSchool) to encourage secondary student interest in conservation biology

"Vanishing Animals," "Tropical Forests" and "Conservation Issues of the 1990's": Teacher training workshops in environmental education

"Steve Martin's World of Birds Show", featuring conservation education through entertainment

On-site eastern bluebird recovery project

"RELEAF Belize, Central America", an *in situ* student reforestation project

Home of ISIS, the International Species Information System

Coordination of the symposium, "Coral Reefs, Sharks and Reef Fishes: Clear Waters/Murky Issues (with the Bell Museum of Natural History)



Minnesota Zoo

The mission of the Minnesota Zoo is "to strengthen the bond between people and the living earth"

In situ population census for Aruba Island rattlesnake

Black-footed ferret captive breeding program

"ZooArk", an educational outreach program focusing on local and global conservation

Bali mynah reintroduction effort

Coordination of the international symposium, "World Conservation Strategies for Tigers"

"Earth Day", "Arbor Day", "Conservation Day" and "South-east Asian Days", annual celebrations of international events in conservation

Coordination of the symposia, "Tropical Forests: The Minnesota Connection", "The Prairie: Minnesota's View Through Tall Grass" and "Minnesota Marshes: Our Wetland Treasures" (with the Bell Museum of Natural History)

Creation and production of Tiger Beat, the newsletter of the Tiger SSP

Establishment of North American regional studbook for Nilgiri tahr

Establishment of North American regional studbook for chimpanzee

Creation of AAZPA Special Interest Group for gibbon species

International training in conservation education: South America, India and Southeast Asia



ISIS

The International Species Information System

ISIS exists to contribute to the preservation of biotic diversity by providing global specimen and species catalogues and auxiliary information services

A network of 376 member zoos in 38 countries for recording standardized animal data as the basis for conservation-oriented management

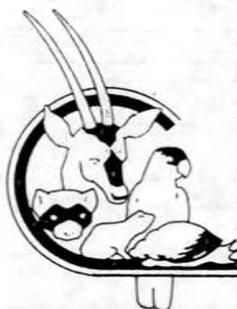
An electronic database on 120,000 animals (and another 300,000 of their ancestors)

The only source of pedigree and demographic data for 97% of the species held by zoos; provides the basis for starting Species Survival Plans (SSPs), which are programs for the long-term survival of captive wildlife

Created ARKS and SPARKS, internationally used microcomputer software for managing wildlife populations in captivity

Developing MedARKS, a state-of-the-art tool for managing the medical health of captive wildlife

Steering committee



IUCN/SSC Captive Breeding Specialist Group (CBSG)

The primary responsibilities of the CBSG are to advise the IUCN on the uses of captive propagation for the conservation of endangered species, and to organize, facilitate and monitor international captive propagation programs

Population Viability Analyses (PVA), a method to establish the extinction risks for a taxon, to develop management recommendations to prevent extinction and to achieve removal from endangered status, have been conducted for:

| | | |
|---------------------------|---------------------|---------------------|
| Aridland Antelope Species | Black-footed Ferret | Mexican Wolf |
| Asian Wild Horse | Florida Key Deer | Puerto Rican Parrot |
| Bali Mynah | Florida Panther | Red Wolf |
| | Golden Lion Tamarin | |

Country-oriented faunal groups, responsible for setting captive conservation priorities on a regional basis, have been established for:
Ethiopia, Indonesia, Madagascar, Philippines, and Vietnam

Groups considered for Captive Breeding Action Plans, which set global priorities for species in need of captive propagation, so far include primates, parrots and hornbills...

Global Heritage Species Program (GHSP)

The goal of the GHSP, a concept that originated in 1988, is to carefully select a group of ecologically significant, culturally important and publicly charismatic species that can be used as flagship and umbrella taxa to attract support for conservation not only of the species themselves but also their ecosystems

Sumatran rhinoceroses have been proposed as the first prototype