Running into Dead Ends: Challenges in Researching the Three Gorges Dam

By Gørild Heggelund

When I first began to study the Three Gorges Dam in the late 1980s to write my master's thesis, I did not realize that the dam would dominate my life for the next decade—both for master and doctorate degrees. Apart from an interval of three years working for the UN in Beijing and taking maternity leave, I devoted years of research examining various political and social aspects of this controversial dam project.

Not surprisingly, I was exposed to the complexity of the political debates surrounding the project early in the research process, as one of my first encounters with people involved in the discussion about the dam was Dai Qing. She presented me with her book *Changjiang Changjiang* (Yangtze Yangtze), which was published in 1989 as an attempt to lobby against the dam. While the Chinese news media and official discussion in China were rather one-sided and biased, this book was intriguing, as it shed light on a lively debate among Chinese bureaucrats and academics, a debate nearly unknown to the outside world.

In her book, Dai Qing harshly criticized the closed decision-making surrounding the dam, a topic I would go on to explore as I pursued my Ph.D. thesis. I wanted to take a closer look at how decisions were made for this dam, for the political landscape in China had changed greatly since Mao's era, when ideology was often the basis for decisions. Decision-making in China today is influenced by many more factors, not only diverse information and pressure from different political and academic actors, but also (albeit to a limited degree) pressure from society and the international community for greater transparency.

The highly politicized nature of the Three Gorges Dam and the harsh international criticism of the project meant researching the decision-making behind the dam was a challenging and time-consuming endeavor. However, despite the numerous hurdles over three years of research between 1999 and 2002, I did gain intriguing insights into the Three Gorges project decision-making process for resettlement and the environment, as well as the long sought-after degree.

The Three Gorges project (sanxia gongcheng) on the Yangtze River is unique both in China and the world due to its great size, the number of people to be resettled, and potential environmental impacts. The long project history and the large number of disputing interest groups have made it one of the most controversial construction projects to date in China. While it will play a crucial role in flood control and energy generation, it is ultimately a political project with much government prestige at stake. The Three Gorges project easily draws criticism, as it has great implications for both people and the environment in the Three Gorges area. Nevertheless, passing judgment on whether or not the dam should have been constructed was not the objective of my thesis. My aspiration was to provide information that highlights the developments in the resettlement process for this project, as well as relating them to general political and social trends in China. One of the main advantages of doing research on an intriguing project such as the Three Gorges is the potential for increased comprehension of the Chinese society at large, as the project touches upon a number of political, environmental, legal, economic, human right, and research issues. It merits mention that some of the trends I discovered on growing involvement of diverse interests in the Three Gorges resettlement issue, have continued in the dam debates in China—as illustrated by the broad nongovernmental organization (NGO), news media, and think tank involvement in critiquing some dams being built without proper environmental impact assessments in southwest China.

China's Resettlement and Environmental Policymaking as Research Topics

The resettlement issue is a particularly difficult topic to study, since the government perceived relocation work as the key to success for the project, and any negative reporting is unwelcome. My research concerned resettlement of the rural population and the reasons for a policy change Zhu Rongji introduced in May 1999. The resettlement policy change he introduced involved moving nearly one-third of the rural population away from the reservoir area (waiqian) to other provinces. This was a striking deviation from the original plan that involved resettling all the population within the reservoir area. The official reason for the “out-moving” was the already low environmental capacity—severe erosion, desertification, and water pollution problems that were threatening human health and livelihoods in the reservoir area.

In addition to the poor ecological health of the area, I discovered that other problems in the resettlement
process were instrumental in bringing about the policy change. Many reports in scientific and policy journals, as well as the news media in China, discussed a litany of troubles faced by the resettled people—most notably local government corruption, which caused more resettlement money to land in the pockets of officials than in those of the relocatees. Moreover, poor local planning and execution of the moves left many relocated people with inadequate or poor quality land. In the new areas some also faced issues of homelessness, limited educational opportunities, loss of vocation and social status. While Zhu did not mention these problems in his announcement, he clearly had access to information on the resettlement troubles. Unlike the early years of the PRC, when top leaders tended to hear only glowing reports of policy implementation from lower level government leaders, today consultative organs such as the Chinese Academy of Sciences, which increased its importance under Zhu's tenure, have been included in the policymaking process. Input from such consultative organs in the dam decision-making process has given the leadership more information revealing a series of problems surrounding resettlement. In addition to the increased importance of information in the decision-making process in China, Zhu Rongji's direct and problem-solving leadership style has been instrumental in forging changes in the resettlement policy.

The controversies surrounding the resettlement process created some limitations for me in selecting the angle of my research. A study of the implementation process alone would have been difficult, as it would be hard for a foreigner to obtain permission to carry out long-term fieldwork and independent research on the resettled rural population of the Three Gorges project. My meetings over several years with officials in the Three Gorges project bureaucracy have confirmed that deep suspicion exists towards foreign scholars, as we focus on what is perceived by the authorities as negative aspects of the project. To avoid criticism and possible loss of promotion opportunities, both local and central officials wish to keep the publicity about the negative aspects of this project as low key as possible.

Particularly sensitive has been research into oft-neglected aspects of dam and other infrastructure project resettlement. The side effects of moving people into new environments where current residents view them as unwelcome competition for scarce resources (e.g., jobs, land, and schools), are not emphasized in reports or acknowledged by many officials. I sought to understand why the human dimension and struggles for people to rebuild a new niche in society were often overlooked. The central government set the rules and regulations for resettlement, while the provincial and local authorities were in charge of the actual resettlement and responsible for solving the problems relocatees face in new communities. The central government has limited capacity to follow up local implementation and therefore regards resettlement as a local issue. Notably, China has been praised by the World Bank for decentralizing the implementation of the resettlement policy, where all responsibility for resettlement is given to local or city governments, and resettlement solutions are developed locally. In theory, local empowerment is important in development projects because it gives local citizens a greater voice in decision-making. However, in China—where local leaders are not elected and citizen access to courts limited—decentralization lacks crucial checks and transparency, which gives local Chinese officials the opportunity to pocket resettlement funds and to mismanage their resettlement responsibilities.

While local officials made it very difficult for me to examine quality of the Three Gorges resettlement process in restoring people's livelihoods and compensating them for loss of land and houses, I did have access to information regarding environmental impacts of the dam through interviews and research reports compiled by academics. Environmental policymaking linked to the dam appears to be a less controversial research issue (albeit not entirely without sensitivity) than the resettlement. Under Zhu Rongji's tenure, criticism was possible in the state media targeting the lack of pollution control and clean-ups in the reservoir area, as well as insufficient local funding for such efforts. Another sign of more openness surrounding environmental issues in the reservoir area is the ongoing activities of one Chinese environmental NGO—the Chongqing Green Volunteers Federation. This NGO has been given the leeway to collaborate with the Chongqing municipal government on lessening urban wastewater and garbage flowing into the reservoir.

The protection of the environment has been one of the top national policies for several decades in China, which automatically raises pollution control and ecological protection issues to national-level attention and promotes greater political openness around "green" issues. The main reason for this development is the restraint that environmental problems and the depletion of natural resources put on economic growth. The elevation of environment on China's national agenda over the past decade has been positive for the Three Gorges environmental policymaking and led to increased funding for environmental clean-ups in the reservoir area in 2001.
Weeding through Propaganda and Pursuing Interviewees

Although the central dam project authorities organized an information apparatus to report on the official policy and to set up news media campaigns and herald progress on the dam, obtaining reliable information other than official material on this controversial dam project is difficult. Over the years I collected mounds of Chinese-language newspapers, reports, and yearbooks (albeit usually hand-picked) peasants. The Chinese interviewees often required I submit a set of questions, which led to initial fears many would only provide stock answers with little elaboration. I was therefore pleasantly surprised that many interviews developed into loosely structured conversations delving into issues beyond the approved set of questions. As expected, officials were careful about their statements, while academics were very open and frank about their own views.

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... as well as articles in scientific journals. One of my heaviest pieces of archival material was the China Three Gorges Construction Yearbook (zhonggou sanxia jianshe nianjian)—first published in 1995 by the Three Gorges project authorities—which presented the official version of developments in most of the areas linked to the construction of the dam project, including resettlement and environment. Despite the propaganda purpose and generally glowing reports in the Yearbook and newspaper articles, they are nevertheless useful as they contain recent policy announcements, laws and regulations, official figures, meetings convened, and speeches by China's leaders.

It was however, necessary to supplement the official information with additional sources in order to obtain a broader picture of the process. Articles in academic journals provided me additional and even critical analysis of the challenges and possible remedies for the dam's resettlement and environmental processes. While newspaper articles in the 1990s focused more on positive reports, academic articles were more critical and discussed actual problems as well as measures to solve them.

Clearly interviews also were needed to supplement the rather biased primary source data in order to begin understanding the political processes surrounding the project and obtain a more diverse view on the resettlement process. Being able to speak Chinese as well as having extensive knowledge of China, was of course a great advantage. I interviewed representatives from the Three Gorges resettlement bureaus at the national, provincial and local levels (e.g., the China Yangtze Three Gorges Project Development Corporation [TGPDC], Chongqing municipal government, and Chongqing Environmental Protection Bureau), officials in ministries and commissions, as well as academics, journalists, and...
both scientists and officials (possibly with a few exceptions) most likely gave me a more optimistic assessment of the resettlement and environmental situation. Scientists may also be biased, as many depend on government-supported research for a living. Nevertheless, the information provided through interviews did reflect the controversies raised in the articles published in scholarly journals, which gave me some indication of developments, albeit not necessarily the whole truth.

Although Zhu Rongji’s attitude towards the dam project and his actual influence in the resettlement process was difficult to verify, in the dissertation I concluded that Zhu’s role in the resettlement decision-making process was crucial. Interviewees, be they officials or researchers, were quite consistent in their views of Zhu’s role in the resettlement policy change. This information was then matched with the information about Zhu in both Western and Chinese literature. Thus, these two sources in combination with the coverage in the state media after Zhu became chairman of Three Gorges Project Construction Committee (TGPCC), provided basis for concluding his importance in shaping the resettlement policy change.

While it may have been easy to attribute Zhu with considerable power to shape the policy, it is harder to substantiate the actual procedures for decision-making regarding the Three Gorges project and in China in general. Among China watchers, there is debate on how decision-making actually is taking place within the Chinese bureaucracy. Despite contending theories, many studies indicate that the nature of decision-making in China is changing, and the power to make decisions has become increasingly fragmented. The role of ideology in decision-making clearly is diminishing and think tanks become increasingly fragmented. The role of ideology in China is changing, and the power to make decisions has been praised by the World Bank for thorough planning in resettlement projects as well as for taking advantage of resettlement as an opportunity to develop economically. High-level policymakers have, however, placed little emphasis on the social impacts from resettlement. One important conclusion from my research is that the Chinese government needs to find ways to raise the social aspect of the resettlement to a higher level than at present in the Three Gorges project. Instead of suppressing protests, the government needs to respond to them in order to avoid even greater social disruption.

Chinese national authorities understand the need to reconstruct the livelihoods of relocatees and have been praised by the World Bank for thorough planning in resettlement projects as well as for taking advantage of resettlement as an opportunity to develop economically. High-level policymakers have, however, placed little emphasis on the social impacts from resettlement. One major step in stemming protests would be for the government to acknowledge that resettlement has social costs; in particular the hardships caused when families and friends are split and ancestral land must be abandoned. One important contribution in this regard would be the establishment of a law on the protection of people’s rights and interests in reservoir-induced resettlement. The new Environmental Impact Assessment Law, which anti-dam activists used in their Nu River protests, underlines the potential utility of the creation of some kind of social impact assessment regulation for government projects.

Recommendations

Regarding recommendations from the study, one key conclusion was that it is important to acknowledge China’s efforts in identifying resettlement practices. The Chinese national government initiated extensive systematic measures for preventing impoverishment of relocatees, which is unparalleled in many other developing countries. However, many problems still exist in the Three Gorges project, due to the sheer size of the resettled population—which is unprecedented in a water conservancy project even in China—and lack of checks on local governments. Furthermore, the controversy of the project hinders a rational discussion of the difficulties encountered.

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ENDNOTES

1 Dai Qing, a former journalist in the Guangming (Enlightenment) Daily, was lobbying to have the dam stopped in 1989. Following the crackdown on the student demonstrations on June 4th, Dai
Qing publicly resigned from the CCP. She was subsequently detained for nearly one year due to her outspokenness against the Three Gorges Dam and the publication of *Yangtze Yangtze*.


3 For information on the newer anti-dam campaigns see the International Rivers Network web page http://www.irn.org/programs/china; and a recent article in The New York Times: http://www.irn.org/programs/nuijiang/index.asp?id=041304_nyt.html

4 The group also works with schools and communities in Chongqing to help raise awareness of sustainable consumption and recycling in the city. The group also conducts its own monitoring of environmental protection of forests in the Three Gorges Dam area.

5 Newspapers such as the People’s Daily, Enlightenment Daily, China Three Gorges Project News, and Beijing Qingnianbao (Beijing Youth Daily). In addition, the Internet has simplified collection of information from China, and has been an important tool for obtaining information. Information from press agencies has been useful, such as the xinhua she (New China Press) and zhongxin she (China News Agency).

6 Other annual reports exist related to the environment, such as the Bulletin on Ecological and Environmental Monitoring of the Three Gorges Project on the Yangtze River (changjiang sanxia gongcheng shengtai yu huanjing jiance gongbao), which is the annual environmental report for the dam project compiled by ministries and institutes, published by SEPA.

7 Some examples are Reform (gaige), Strategy and Management (zhanlüe yu guanli), Resources and Environment in the Yangtze Basin (changjiang liuyu ziyuan yu huanjing), Population Research (renkou yanjiu).

8 Located in Yichang, Hubei province, the Three Gorges Project Development Corporation (TGPDC) is the project proprietor and responsible for all the construction of the dam. TGPDC allocates all construction and resettlement funding related to the project after the activities are approved by the Three Gorges Project Construction Committee.

9 The TGPCC is the highest policy-making body under the State Council established for the project and is headed by the Premier.


11 Perhaps this insight is being accepted by top leadership, for in the case of the Nu River dams Wen Jiabao cited the need to prevent more “social disruptions” in halting the dams and carrying out more careful environmental impact assessments.

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**Ecosystem Governance in a Cross-border Area: Building a Tumen River Transboundary Biosphere Reserve**

By Sangmin Nam

The Tumen River Area, where the borders of China, North Korea and Russia converge, is a globally important reservoir of biodiversity—a unique refuge for numerous species that survived the Quaternary glacial period over 1.6 million years ago. The river area’s relatively undisturbed terrestrial ecosystem provides habitats for over 50 species of mammals and 360 species of birds, many of which are found nowhere else in the world. The Tumen River Delta, a vast wetland complex with over 30 freshwater lakes and brackish lagoons, also serves as the critical northern end of a major migratory path of the East Asian-Australian Flyway, supporting 200 species of migratory birds including 34 globally endangered species that are listed in the IUCN Red Data Book. Protecting this area is challenging not only because the riparian countries view it as a peripheral area not worthy of conservation investment, but also because China has been politically very cautious about multilateral talks on transboundary environmental problems. China’s hesitancy is understandable as it is often the source of most of the degradation problems.

**Dwindling Numbers of Siberian Tigers and Far Eastern Leopards**

While conserving the area’s ecosystem as a whole is important, efforts to protect some endangered keystone species are imperative—two top priorities are the Siberian (or Amur) tigers and Far Eastern leopards. The number of Siberian tigers, one of the five living subspecies of tiger and an internationally endangered subspecies, is...
estimated at about 400, most of which live mostly on the Russian side in Primorsky. While their numbers have been stable during the past decades, humans have caused many tiger mortalities. However, the Far Eastern leopard's fate is even more threatened than that of the Siberian tiger. With only an estimated 40 to 50 in the Tumen River Area, this leopard is one of the rarest subspecies in nature and ranked on the list of critically endangered species by the IUCN. Although hunting leopards has been banned since 1956, the destruction and curtailment of habitats by development and logging have resulted in the serious decline in their numbers. Protecting a safe habitat is a critical condition for the Far Eastern leopard's survival because its natural habitat is only in the lower reaches of the Tumen River while the range of Siberian tiger extends much further into the north of the Russian Far East. The two species also face serious threats of poaching in the Russian territory near the border to China and illegal trade of their products between China and Russia. No effective administrative systems and transboundary collaboration mechanisms exist to keep these wild tigers and leopards safe.

**Tumen River Area Development Program, NGOs, and the Environment**

The main challenge to protecting the many threatened species in the Tumen River Area is how to govern the single bioregion, which is divided by three different sovereign territories. It is only since the mid-1990s that the region's governments and international organizations have been discussing efforts on protecting the endangered species and their habitat. See Box 1 for an overview of multilateral and bilateral efforts to promote conservation in this area.

Transboundary cooperation on biodiversity was boosted not as the result of strong environmental awareness or governmental initiative in the region, rather by the creation of a regional economic program—the Tumen River Area Development Program (TRADP)—and environmental activities of international multilateral organizations and nongovernmental organizations (NGOs). TRADP, the Northeast Asia's first multilateral development program, was officially launched in late 1995, but is today no more than symbolic attempt at collaboration. This multilateral program, comprised of China, Mongolia, Russia and the two Koreas as member countries, aimed to build the area into a trade hub and economic cooperation center for Northeast Asia. Many planners anticipated this program would change the geographical face of the Tumen River from a non-populated, less developed area to a vibrant economic zone.

This nascent economic collaboration—which represented the first time any cooperative mechanism was created in the Tumen River Area—highlighted the lack of cooperation among these riparian countries on environment and social issues in this richly biodiverse river basin. The potential for economic development and the void in environmental collaboration in the Tumen River Area drew international attention, leading to the rapid growth of various governmental and nongovernmental activities in the environmental sphere. This international concern was the catalyst that pushed the China, Russia, North and South Korea, and Mongolia to adopt the 1995 Memorandum of Understanding (MOU) on Environmental Principles Governing the Tumen River Economic Development Area and Northeast Asia. This MOU called upon the countries to undertake joint efforts to mitigate adverse environmental impacts that might be caused by economic activities in the Tumen River Area. On the basis of the MOU, the five governments compiled an Environmental Action Plan through two workshops in 1997 and 1998. However, TRADP's shrinking role after the Asian financial crisis that began in late 1997, the low catalytic capacity of its Secretariat, and little environmental interest of the member countries prevented implementation of the Environmental Action Plan.

A few years after the Asian financial crisis, TRADP's member countries tried to reinvigorate this development program by carrying out a project to prepare a Strategic Action Plan (SAP). The SAP project—which ran from mid-2000 to 2002 funded with $5 million from the Global Environment Facility—helped diagnose and compile information on the environmental situation in the Tumen River Area, and facilitated interactions of various stakeholders across national boundaries. The project also produced a draft SAP, which as of early 2004 was still not formalized, as China and Russia were still calculating the costs and benefits of its implementation. In the eyes of the Chinese government, signing the SAP means the formal acceptance of China's responsibility for pollution and biodiversity destruction. In addition, an organizational conflict between the Chinese State Environmental Protection Administration (SEPA), which felt it should be the SAP signatory body, and the Ministry of Foreign Trade and Economic Cooperation, the principal national partner of the SAP project, became a critical factor delaying China's formal endorsement.

In the vacuum of effective intergovernmental actions...
on protecting the key animals of the bioregion, NGOs have played substantial roles in species conservation. (See Box 2). NGOs such as WWF, Tigris Foundation of the Netherlands, Hornocker Wildlife Institute and the Wildlife Conservation Society of the United States have acted as the main sources of technical and financial resources for the Russian side where the local government’s capacity in the management of protected areas had fallen considerably since the collapse of the Soviet Union. 

The Hornocker Wildlife Institute initiated a catalytic NGO project on transboundary conservation cooperation by conducting the first Sino-Russian joint animal survey in the winter of 1997-1998. The survey uncovered considerable wire-snare poaching of ungulate species (such as deer) being done by Chinese villages near the border. This poaching significantly impacts the leopard and tiger population because it substantially depresses their prey populations. NGOs have also been major contributors to the establishment of China’s Hunchun Nature Reserve in Jilin province, which borders Russian protected areas in Primorsky Krai. NGOs have helped protect tigers in the Hunchun reserve by providing policy and technical assistance, as well as financial resources to Jilin province, particularly to communities near the reserve. The small successes of these NGO environmental protection initiatives and cooperation among the riparian states have indirectly laid the groundwork for discussions of a more ambitious plan to protect the Tumen River Area—a transboundary biosphere reserve.

Move Towards a Transboundary Biosphere Reserve

Despite a high and long wire fence marking the boundary, tigers and leopards freely cross between China and Russia. They also roam in and out of North Korea across the Tumen River. However, the politically sensitive borders are still hostile to people, which deters nature reserve employees in protected areas in both China and Russia from closely monitoring animal and ecological conditions along the border in the mountains. This lack of monitoring has given local poachers and illegal traders free range to use the border...
area as their sanctuary to trap leopards and tigers and the prey upon which they depend.

A renewed effort to discuss the challenge of protecting endangered tigers and leopards in the border region began in 2001 when the Korean National Commission for UNESCO organized the second workshop of the Ecopace Network of Northeast Asia in Yanji City, located in the Yanbian Korean Autonomous Prefecture of Jilin province. This workshop brought NGOs from Northeast Asian countries, as well as officials and NGOs from the Tumen River Area together for the first time. Many participating NGOs and government officials agreed the border region could only be protected through institutionalized cooperation, which led to the proposal to create a transboundary biosphere reserve (TBR).

During the workshop, participants from both Chinese and Russian parts of the Tumen River area reached a consensus on the need for collaborative actions to mitigate transboundary environmental problems. In particular, the workshop resolution recognized biodiversity conservation as a priority issue for joint action. Many participants saw the TBR concept as a practical method of undertaking such joint actions, which led them to make a formal request to UNESCO to help facilitate necessary activities towards the creation of a TBR in the Tumen River Area.

The concept of a biosphere reserve (BR) is not new to the countries in the Tumen River Area. UNESCO launched the idea of such reserves in 1971 to promote and demonstrate a balanced relationship between people and nature under UNESCO’s Man and the Biosphere (MAB) Program. Currently the number of designated Biosphere Reserves in China, Russia and North Korea is 21, 26, and 1, respectively. These three countries and other Northeast Asian countries (Mongolia, Japan and South Korea) have been operating the East Asian Biosphere Reserve Network (EABRN) since 1994 in order to share information on BR management and undertake cooperative activities. Although EABRN is the most active regional environmental mechanism in Northeast Asia, a TBR in the Tumen River Area had never been actively envisaged, in great part because of the potential political challenges in bringing the area’s countries together. In fact, only six TBRs exist in the world, which reflects the political difficulties in creating such a transboundary institution.

The workshop’s call for a TBR led the Korean

**Box 2. The Role of NGOs in the Tumen River Area**

NGOs have been extremely important actors in the environmental governance of the Tumen River Area by carrying out activities in two contexts: (1) within the Tumen River Area Development Program (TRADP), and (2) with outside formal international mechanisms. Examples of two strategies NGOs employed during the mid-1990s included:

- NGOs such as the Pacific Environment and Resource Center (PERC) of the United States and Friends of the Earth-Japan acted as “external watchdogs” to ensure that TRADP would become an environmentally sound program promoting sustainable development as promised by UN agencies.

- PERC and Hornocker Wildlife Institute worked as “operational agents” of international organizations, by undertaking various on-the-ground projects sponsored by UNDP and the Tumen Secretariat. The role of the NGOs not only helped international organizations actualize their intended activities, but also brought about legitimized space for NGOs in formal river basin governance in the area.

A more important aspect of NGO performance in the Tumen River Area was the operation of NGOs promoting local-level environmental governance. For example, international NGOs such as Tigris Foundation, Wildlife Conservation Society, and WWF collaborated with local NGOs and research institutes to execute their own biodiversity conservation programs. Some notable programs that were independent of (but complemented) UN initiatives include: (1) creating ecological conservation programs, (2) operating anti-poaching teams in collaboration with the government, (3) creating compensation schemes for farmers who lost livestock to tigers and leopards, and (4) undertaking capacity-building activities for local stakeholders of protected areas. Through these programs, NGOs acted as diffusers of information and knowledge, as well as providers of financial resources for local actions. Nevertheless, NGOs also have faced limitations. Specifically, NGOs were able to work only on the issue of biodiversity and operate only in Russia. The NGOs did not pursue issues of water pollution or undertake projects in the Chinese area, which sorely needs NGO and grassroots activism. In the Chinese region of the Tumen River Area, the lack of NGO counterparts and political restrictions, as well as weak human and financial resources restricted the sustainability of international NGO activism.
National Commission for UNESCO in early 2002 to start a feasibility study on establishing such a reserve in the lower Tumen River Area. The main aim of the feasibility study project was to prepare a TBR proposal that included: (1) guidelines for transboundary cooperation, (2) potential institutional mechanisms, (3) establishment procedures, (4) zoning plans, (5) a draft Biosphere Reserve nomination form, and (6) and recommendations on a TBR implementation action plan and fund mobilization.

The feasibility study and the project to form the TBR, however, initially faced various political hurdles—one of the largest being the cautious position of Chinese central government agencies such as SEPA and the Chinese Man and the Biosphere (MAB) National Commission for UNESCO. The TBR project required clear support from China’s MAB National Commission to be conducted smoothly and to produce politically meaningful outcomes. However this commission did not commit itself to the TBR because it did not receive the political approval from key high-level agencies in China.

Throughout all regional environmental cooperative efforts, China has been extremely cautious of bilateral or multilateral actions that might interfere in China’s sovereignty to pursue economic development. Chinese officials involved in such cooperative efforts are hesitant to even employ the term “transboundary” in cooperation projects, as they do not want the country to be officially recognized as a source of pollution of a neighbor’s territory. Even more important is the wish to avoid any situation that might interfere in China’s sovereignty to pursue economic development. See Box 3 for some other examples of China’s hesitancy in transboundary environmental initiatives.

The Chinese have exhibited similar hesitancy vis-à-vis the Tumen River TBR initiative, which delayed the official launch for months. Finally the TBR project began without the participation of the China’s central government agencies. Without the formal endorsement by all national governments, the TBR project could only move forward as a results-oriented action plan for a TBR proposal. Within this new, “informal” action plan, UNESCO, NGOs, and provincial governments, took a new approach, focusing on bottom-up, instead of top-down activities—first mobilizing local stakeholders’ understanding and interests within the TBR before trying to attract political support from central government agencies. This approach also was derived from the lessons from previous intergovernmental activities in the Tumen River Area, which mostly alienated local stakeholders, leaving feeble local capacities in environmental knowledge and management.

From mid-2002 until early 2004, international and local NGOs as well as local governments in the border region have undertaken activities laying the groundwork for a true TBR in the Tumen River Area, including: (1) awareness-building and field diagnostic meetings, (2) national technical meetings, (3) a regional workshop, (4) national subprojects, and (5) mapping of ecological, economic and social conditions. At the end of October 2003, officials from Jilin (China) and Primorsky (Russia) provincial governments, staff from nature reserves in both parts of the Tumen River Area, and experts from domestic and international NGOs gathered together at a regional workshop in Hunchun, Jilin. The consensus reached at the meeting was more than originally expected. Officials from both Chinese and Russian provincial governments expressed their strong support for creating a TBR. Both provincial governments saw activities leading to the TBR as a crucial avenue to promote local cooperation across the border, to attract international attention to their protected areas, and to protect endangered animals. This breakthrough led workshop participants to agree on
meaningful outcomes to push forward the project’s process. The outcomes included:

- Promoting local stakeholder understanding of various methodologies for biodiversity conservation in the transboundary areas;
- Opening windows of opportunity for information exchanges and field activities between various stakeholders across national boundaries, as well as within a country; and,
- Gathering and sharing information and materials on the ecological situation and state of conservation efforts in the Tumen River Area.

As the feasibility study project nears completion, it becomes clear that most local stakeholders in both Jilin and Primorsky want to help create the first TBR in Asia. At this stage, two ways are possible for the establishment of a Tumen River TBR: (1) make the central authorities of both China and Russia fill out a nomination form for a TBR together and apply for the creation to UNESCO, or (2) create a separate BR in each country and combine them as a TBR later when the political situation is more supportive. If BRs were independently established on both sides of the Sino-Russian border in the Tumen River Area, they could still act as an informal TBR until the official establishment. Regardless of which strategy is chosen, success remains in the hands of authorities in Beijing. Relevant authorities in Moscow already released letters of their support for a TBR, but Beijing still waits for the right moment to signal their intent.

In light of the Chinese central government’s hesitancy, officials of the Jilin province and Hunchun Nature Reserve are first trying to upgrade the provincial level reserve to the state level, which will facilitate the reserve’s nomination for a BR later. At the same time, local stakeholders in both China and Russia are preparing practical and cooperative activities for two BRs or a TBR. In parallel, the local stakeholder project team is attempting to invent workable options for the central government of China.

Having constructed a meaningful avenue for most major stakeholders to meet and to shape their common goals, it is crucial to keep transboundary activities alive after the feasibility study project’s completion in mid-2004. In addition, persuading North Korea to join transboundary activities and become a member of a TBR remains as an important task, as its territory has considerable value as a part of the potential reserve. Currently, North Korea is hardly involved in multilateral environmental activities in Northeast Asia, but it appears rather receptive to activities on biodiversity issues. Thus, there is hope to see North Korea participate in later activities even though it declined the initial invitation.

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Endnotes

1 As the BR is rooted in a UNESCO program, the creation of a Biosphere Reserve requires UNESCO to approve an application submitted by a country’s National Commission for UNESCO.

2 The existing transboundary biosphere reserves are the Tatra in Poland and Slovakia (1992); Krkonoš/Karkonosze in Czech Republic and Poland (1992); Voges du Nord/Pfälzerwald in France and Germany (1998); the Danube Delta in Romania and Ukraine (1998); the Eastern Carpathians in Poland, Slovakia and Ukraine (1998); and the West Region in Benin, Burkina Faso and Niger (2002).