An Assessment of the Buddhist Practice of Life Release in North America

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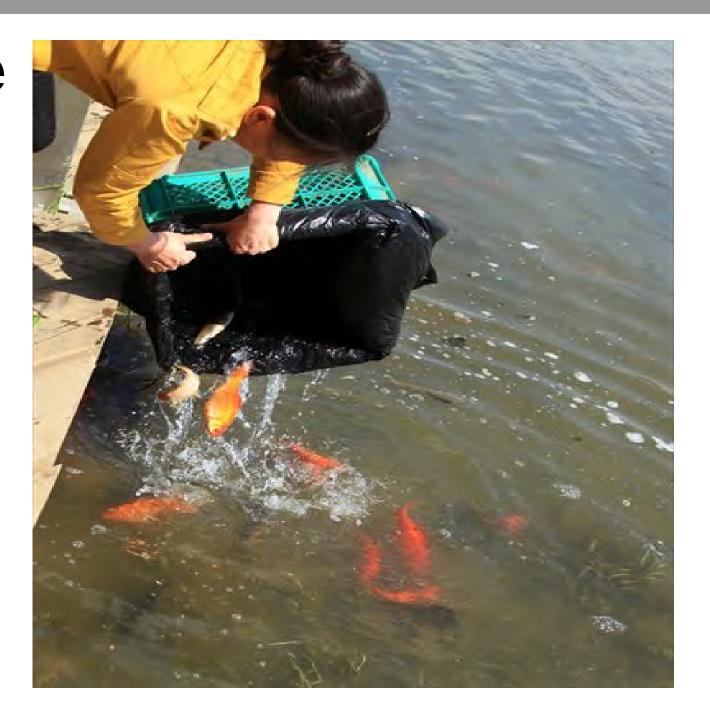
UW-Madison











What do we already know about this practice?

- Theology
 - Compassionate acts earns karma
 - Saving lives
- Impacts
 - Limited to studies in Asia
- Origin of practice
 - It could be just as much cultural as religious

So what do we know about this practice in North America?

N.Y. / REGION GOOD FOR KARMA. BAD FOR FISH?

Buddhists Release Animals, Dismaying Wildlife Experts





A Buddhist Ritual Gets an Ecologically Correct Update

"Release life," the practice of freeing caged animals into the wild to generate good karma, is now an environmentally friendly act of kindness.



A Buddhist Tradition to Save Animals Has Taken an Ugly Turn

A religious revival Animal spirits

WILDLIFE WATCH

Releasing animals into the wild is in vogue—with unwelcome consequences





In the peer reviewed literature

LETTER

The influence of traditional Buddhist wildlife release on biological invasions

Xuan Liu1, Monica E. McGarrity2, & Yiming Li1

Diversity

Site and species selection for religious release of non-native fauna

Ryan J. Wasserman ¹⁰, ^{1,2} Jaimie T. A. Dick, ³ Rebecca J. Welch, ⁴ Tatenda Dalu ¹⁰, ⁵ and Kit Magellan ⁶ School of Science, Monash University Malaysia, Jalan Lagoon Selatan, 47500 Bandar Sunway, Subang Jaya, Selangor Darul Ehsan, Malaysia, email ryanwas21@gmail.com

ECOSPHERE

Ecological knowledge reduces religious release of invasive species

Xuan Liu, Monica E. McGarrity, Changming Bai, 1,3,4 Zunwei Ke, 1,3,5 and Yiming Li¹,†

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Table 1 Evidence for global occurrence of religious wildlife release: Results of a search of literature and news reports

Source ^a	Location	Taxa released ^b							Religion ^c				
		ı	F	Α	R	В	М	U	В	Т	С	Р	O/I
Sherwood (2001)	Australia	•	•			•	•		•				
Rutledge (2005)	Australia	•							•				
Severinghaus & Chi (1999)	Cambodia					•							•
Shiu & Stokes (2008)	Canada (Vancouver)							•	•				
Shiu & Stokes (2008)	Canada (Toronto)							•	•				
Shi et al. (2009)	China (Mainland)				•				•				
Shiu & Stokes (2008)	China (Tibet)							•	•				
Anonymous (2007)	Hong Kong					•			•				
Chan (2006)	Hong Kong					•			•	•			
Severinghaus & Chi (1999)	Hong Kong					•							•
Severinghaus & Chi (1999)	Malaysia					•							•
Lim & Lim (1992)	Singapore				•								•
Agoramoorthy & Hsu (2005)	Taiwan	•	•	•	•	•	•		•	•			
Agoramoorthy & Hsu (2007)	Taiwan	•	•	•	•	•	•		•	•			
Chen & Lue (1998)	Taiwan				•				•				
Liao et al. (2010)	Taiwan		•										
Ling (1972)	Taiwan				•				•				
Severinghaus & Chi (1999)	Taiwan		•		•	•			•	•	•	•	•
I-chia (2011)	Taiwan		•			•			•				•
Kastner (2011)	Taiwan		•		•	•			•	•			•
Harvey (2007)	Thailand					•			•				
Severinghaus & Chi (1999)	Thailand	•				•							•
Anonymous (1993)	USA (California)				•				•				
Zimmerman & Herrmann (1996)	USA (Illinois)				•								•
Anonymous (2004)	USA (Maryland)		•										•
Guilfoil (2011)	USA (Massachusetts)	•											
West (1997)	USA (New Jersey)		•						•				
Fuoco (2001)	USA (Pennsylvania)	•							•				
Severinghaus & Chi (1999)	Vietnam	•			•								•
Anonymous (2003)	Vietnam				•				•				

^aBibliographic results of a search of literature and news reports, see Appendix S4.

 $^{^{}b}$ Taxa released: I = invertebrates; F = fish; A = amphibians; R = reptiles; B = birds; M = mammals; U = unspecified.

 $^{^{}c}$ Religions: B = Buddhism; T = Taoism; C = Catholicism; P = Protestantism; O/U = other/unspecified.



In Paterson's West Side Park Sunday, followers of a New York Amitabha Buddhist sect took part in a ritual in which live reptiles were released into the Passaic River. Environmental officials in two states are trying to track down the group.

Specimen ID	241066
Group	Fishes
Genus	Monopterus
Species	cuchia
Common Name	cuchia
State	NJ
County	Passaic
ocality	Passaic River at Paterson's Westside Park
Mapping Accuracy	Accurate
HUC8 Name	Hackensack-Passaic
HUC8 Number	02030103
HUC10 Name	Lower Passaic River
HUC10 Number	0203010308
HUC12 Name	Peckman River-Passaic River
HUC12 Number	020301030802
	Trenton Poughkeepsie Road Aerial Poughkeepsie Poughkeepsie Poughkeepsie Poughkeepsie Beacon Waterbury New Haver Bridgeport John Middetown New Jersey Oreenwich Standord Yonkers Parsippany Allentown Allentown Long Branch Trenton
Collection Day	11
Collection Month	8
Collection Year	2007
Year Accuracy	Actual
Potential Pathway	released for food

So what did we know about this practice in North America?

Not a lot

- Who is practicing it and how often?
- What is being released?
- What are the requirements of the practice? What is open to interpretation?
- How can we meet the intent of the practice while reducing/eliminating the risk of introducing invasive species?

MRBP Scope of Work

- Literature review
 - Develop understanding of the practice
 - Risk assessment
- Practitioner interviews
 - Develop understanding of the practice
 - Risk assessment
 - What other practices meet the intent of "life release" teachings?
 - How can we engage with the Buddhist community?
- AIS professional survey
 - What options that meet the intent of the practice are acceptable to managers?
- Communication products
 - Fact sheets
 - Peer reviewed literature

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Literature Review

- Chinese literature
 - Peer-reviewed, popular literature, social media
- English literature
 - Peer-reviewed, popular literature, social media
- Complete
- What we've learned
 - Theology
 - Motivations
 - Compassion/"Virtuous mind"
 - Discussion of environmental issues

放生的意义、实施与注意事项

陈星科

一、放生习俗的聚焦与形成 中国议地的放生活动古已有 之。(例子·说符篇)概。"正旦放生, 示有思也。""各日。因知谓之故放 之,竟而排之,死者众矣。罪如故生 之,无者殊民勿谏。嫌而故之,思过 不相种矣。"黄子曰:"若!"可见, 早在春秋战阳时代、我国议地即有 在特殊日子放生的说法。甚至已出 现了专门铺鱼鸟以供放生的情况。 但特荣、广泛的放生习俗的形成。 还县在佛教作人中国之后

機概是一个往重熔非整化心 主张非暴力的宗教。機(]與一成) 为成系。概经中讲述概能及其第一 过去生中放生护生的故事很多。。 其是大策佛教。认为一切众生物。 概性,无量勤中同为大杂番属。 調要普度众生。极力重扬或余利 意,放生护生。这些与儒家所谓"。 杂而仁民,仁民而爱物"、"己所" 做。勿能于人"、"人皆有制恶。 心"、"君子远起野"的理念不谋。 合。从而为国人从文化心理上理想 和支持佛教的故生活物奠定了:

我国佛教的放生。是与戒杀念



TOMACOUNCE Across Americal Journals Introduced the Administration of the American Section 1997 (1997) and the

Practitioner Interviews

Recruitment

- Student used snowball sampling approach
- 440 locations contacted throughout United States
 - Temples
 - University programs and clubs
- Took way longer than we thought

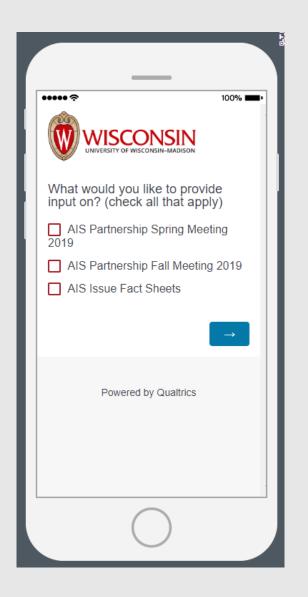
Interviews and analysis

- 11 Interviews of ~30 minutes
- Interviews were coded by 3 people
- Codes were combined and an evaluation report created
- Hopefully an MBI ICAIS pub!



AIS Professional Survey

- Will be starting soon
- Nationwide
- What variations of the practice are people comfortable with?
- What level of engagement are managers willing to invest in?
- Are you willing to engage with the community?



Communication Products

- Peer reviewed paper
 - Management of Biological Invasions
 - Religion and the Environment
- Fact sheets
 - For practitioners
 - Best practices for release
 - Potential laws to check on
 - Similar practices
 - Who to contact
 - For managers
 - About the practice
 - How staff can help
 - Conversation guide



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Clean Boats - Clean Tournaments

Best-Management Practices to Inspect and Wash Fishing Tournament Boats

FISHING TOURNAMENTS HAVE THE POTENTIAL TO spread aquatic invasive species (AIS) through both the movement of tournament equipment between tournament locations and through the movement of the tournament anglers themselves between events. These best-management practices (BMPs) are designed to be effective and easy to implement. Using a "Good-Better-Best" approach allows organizers to select their level of AIS prevention based upon available resources. AIS such as zebra mussels, Eurasian watermilfoil, diseases or pathogens, and AIS used as bait, can spread via tournaments. By implementing these BMPs, tournament organizers can prevent the spread of AIS, protect natural resources and help ensure the future of tournament fishing. Diligent record keeping in combination with use of the BMPs will document your commitment to AIS-free tournaments.

AIS can spread as visible plant fragments, organisms attached to plant stems or the boat and equipment. But AIS can also be invisible to the naked eye as minute eggs, larvae or pathogens in water. Taking a few, quick and simple steps will help assure that tournament or angling activities do not allow the spread of AIS between waters.

Inspection and removal of vegetation, organisms and debris is the first step and the backbone of the Stop Aquatic Hitchhikers! campaign. Drying tournament anglers' boats for five days may not be possible, so rinsing the boat is an appropriate next step. Rinsing with high pressure water removes nearly all the organisms visible that may be adhering to the hull and trailer. Hot, high-pressure water kills attached organisms as well as removes them.





What we've learned

Who is practicing life release?



Sects/traditions

- Mahayana
- Tibetan Sutra

Texts

- Golden light sutra
- Brahmajala Sutra
- Chunese Bodhisattva

Quotes

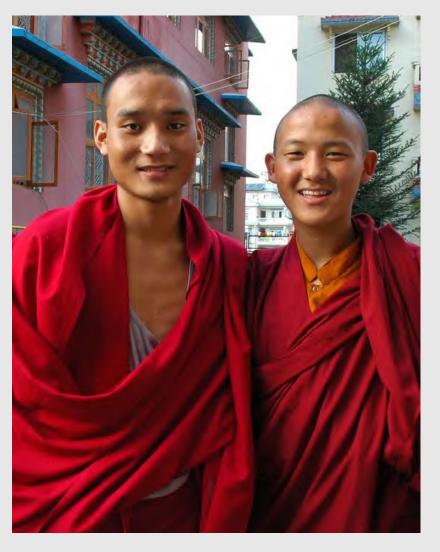
- "unaware of specific requirements because it depends on the culture & people"
- "texts are the same...but it might vary according to the culture"



It can be just as much cultural as religious

Who is practicing life release?





When and where of practice

Planned

- Hosted at temple or park
 - "Often in the United States, we have the event quite often during the summer."
- Perhaps associated with days of significance
 - "The day of the Buddha's enlightenment, which is usually in the spring, they say that the karma on that day is much, much higher "
- Community event
 - We have ours at a park because it's nice to have a picnic afterwards
- Spur of the moment
 - For someone (celebration or for well wishes)
 - An act of compassion (fish at restaurant)
- Where
 - "may you live out your natural life span and not be eaten by other creatures."



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- Where
 - "may you live out your natural life span and not be eaten by other creatures."
- 11 interviews out of 440 contacts says something...
 - We didn't hear back from many contacts
 - Two common responses were "we do not know of that practice" or simply "We don't practice that"



What is released



I think we're worried about this

What is released



I think we're worried about this





But I think we're more likely to get this



We believe that we can help practitioners meet the intent of the practice in an environmentally sustainable manner and reduce invasion risk

Alternative practices

- Specific variations of the practice
 - Brainstormed with local expert
- Wildlife rehabilitation programs
 - Animals would die otherwise
 - Release is an end goal
 - Pet rescue and rehoming programs could work, too
- Alternative solo practices
 - Releasing a fly outside vs killing it
 - Being vegetarian
- Every interview welcomed expert engagement
 - Experts can help make needed connections
 - You'll see how next slide
- Permit program
 - Could help standardize practices
 - Could lead to more engagement
 - Permit program vs voluntary BMPs
 - Could work for planned events, but solo practice?

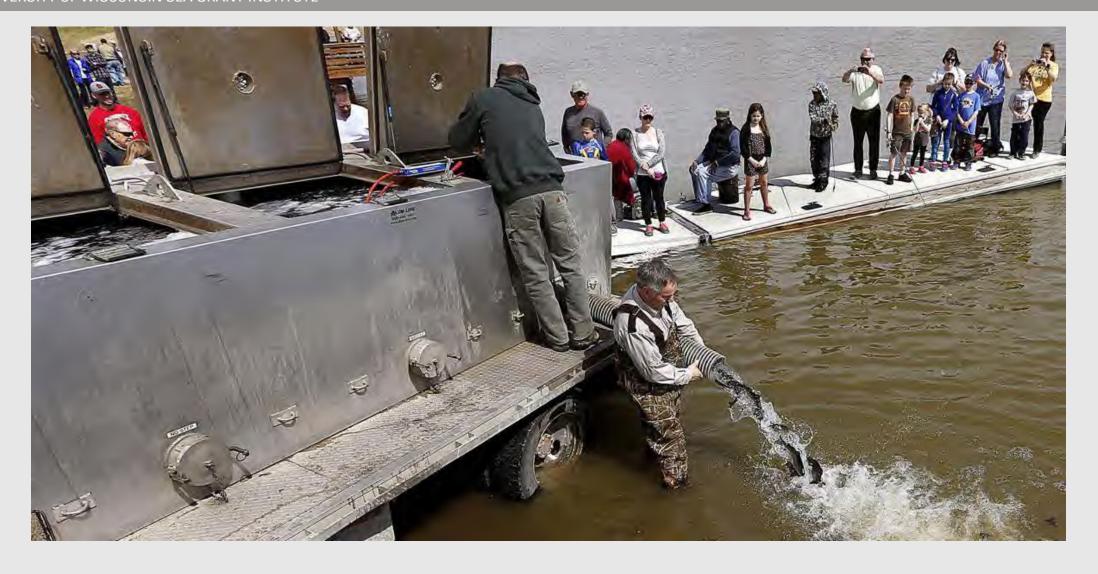


PHOTO: J. HESSION/CENTER FOR WILDLIFE

An eagle regains its freedom after rehabilitation.



Oyster reef restoration



Unannounced stocking of put and take fisheries

In Summary

- It happens
 - Planned events likely have the lowest risk
 - Unplanned events are likely riskier and hard to anticipate
- We believe there are low risk ways to practice this
 - Promote planned events with low or no risk species
 - Promote alternative acts of compassion for unplanned events
- Practitioners welcome engagement
 - It is likely needed to establish some of these variations of the practice





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