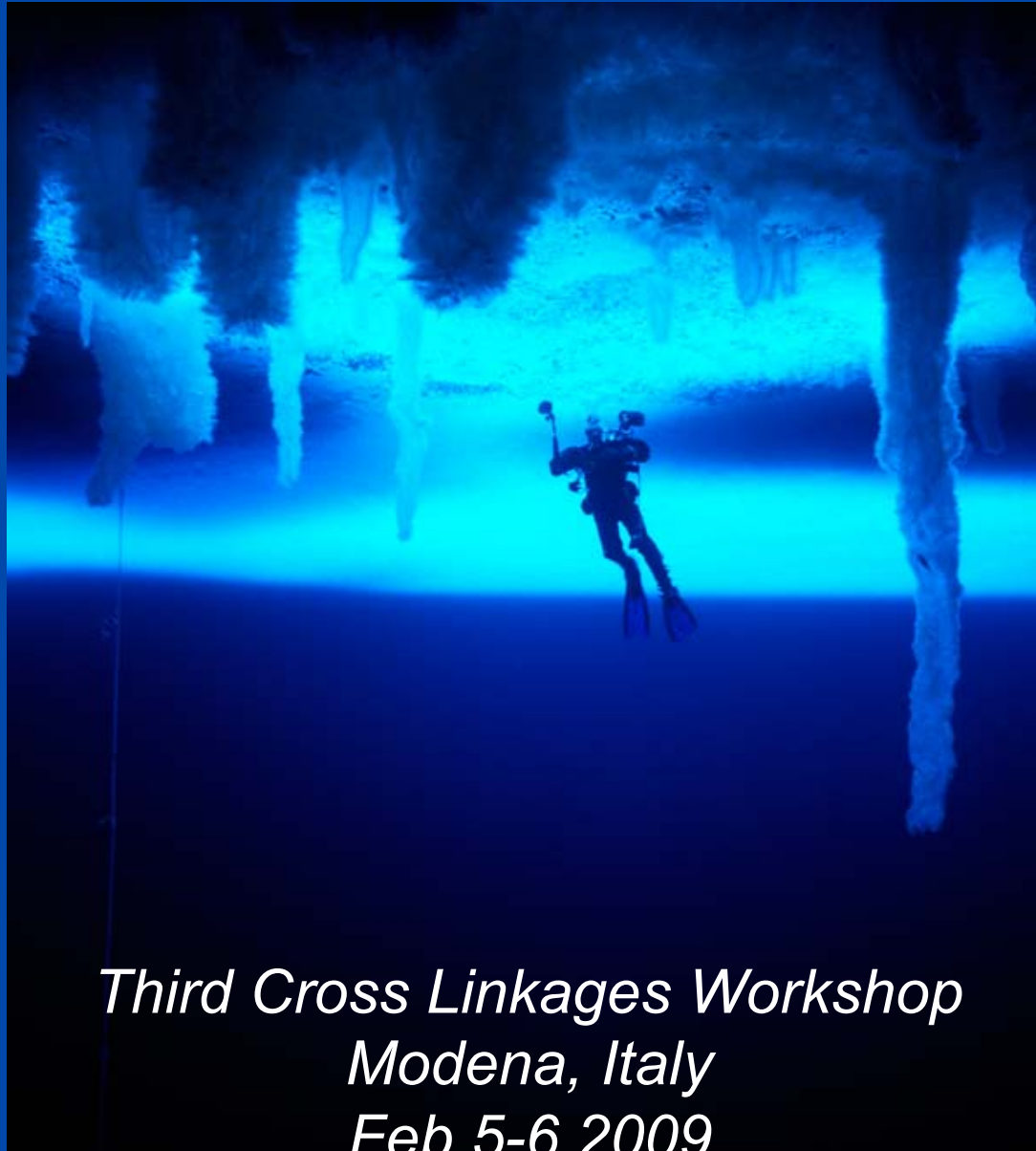


Life Sciences SSG



*Third Cross Linkages Workshop
Modena, Italy
Feb 5-6 2009*

By
Kathy Conlan



EG-Human Biology and Medicine

- 3 new members recently recruited
- Potential amalgamation with MEDINET stalled as the future of MEDINET is uncertain
- HB&M members continue to undertake the majority of the medical research carried out in the Antarctic
- 21 papers/posters presented in St. Petersburg



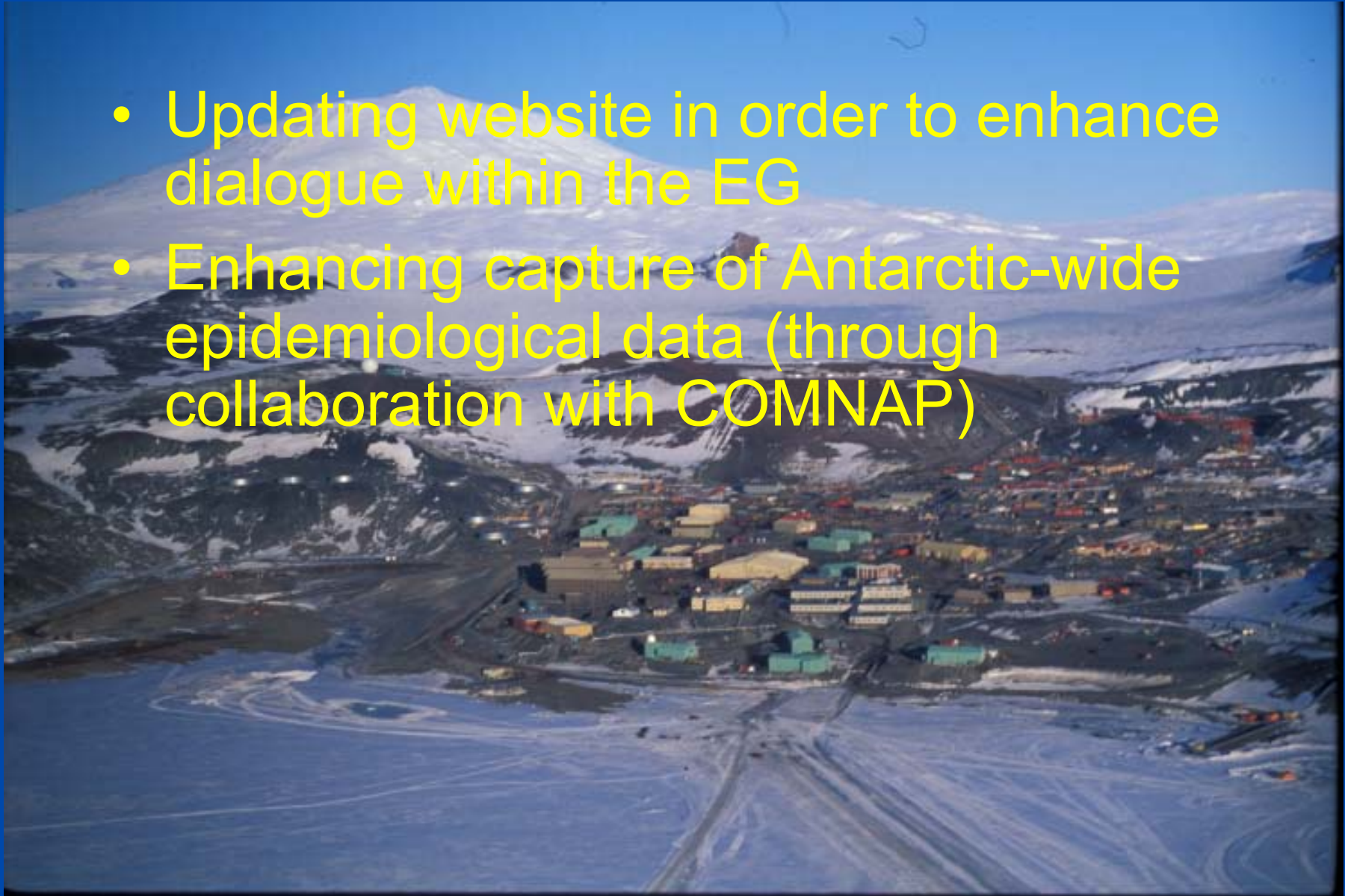
EG-Human Biology and Medicine

- EG will meet at COMNAP-IAATO conference on safety of Antarctic tourism in Oct 2009
- Cooperative project developing on bone density loss in Antarctic – investigating potential for Arctic collaborations
- Results on Antarctic seabirds as vectors for Lyme disease going to publication



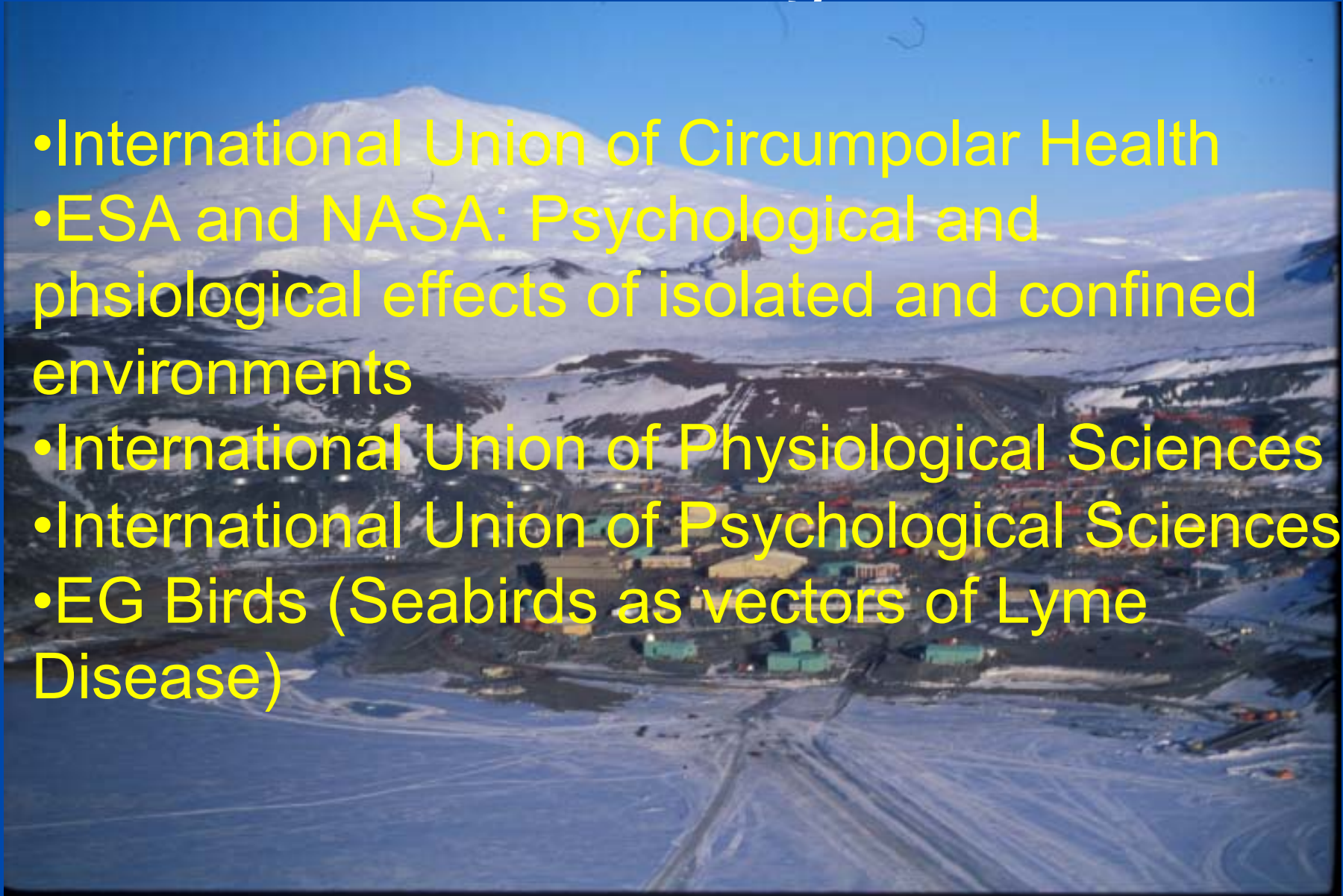
EG-Human Biology and Medicine

- Updating website in order to enhance dialogue within the EG
- Enhancing capture of Antarctic-wide epidemiological data (through collaboration with COMNAP)



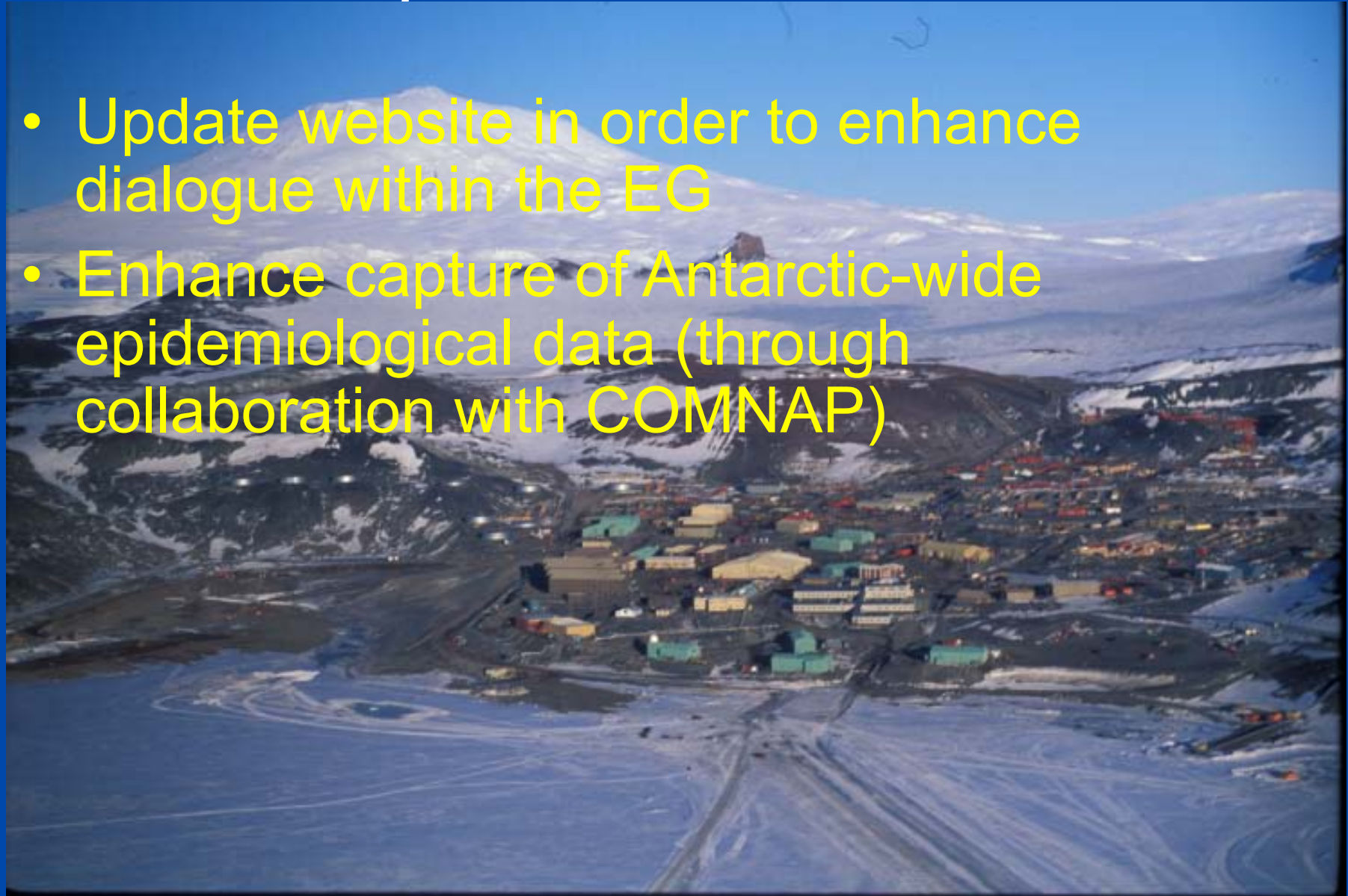
EG-Human Biology and Medicine *cross-linkages*

- International Union of Circumpolar Health
- ESA and NASA: Psychological and physiological effects of isolated and confined environments
- International Union of Physiological Sciences
- International Union of Psychological Sciences
- EG Birds (Seabirds as vectors of Lyme Disease)



EG-Human Biology and Medicine: *plans for 2009*

- Update website in order to enhance dialogue within the EG
- Enhance capture of Antarctic-wide epidemiological data (through collaboration with COMNAP)

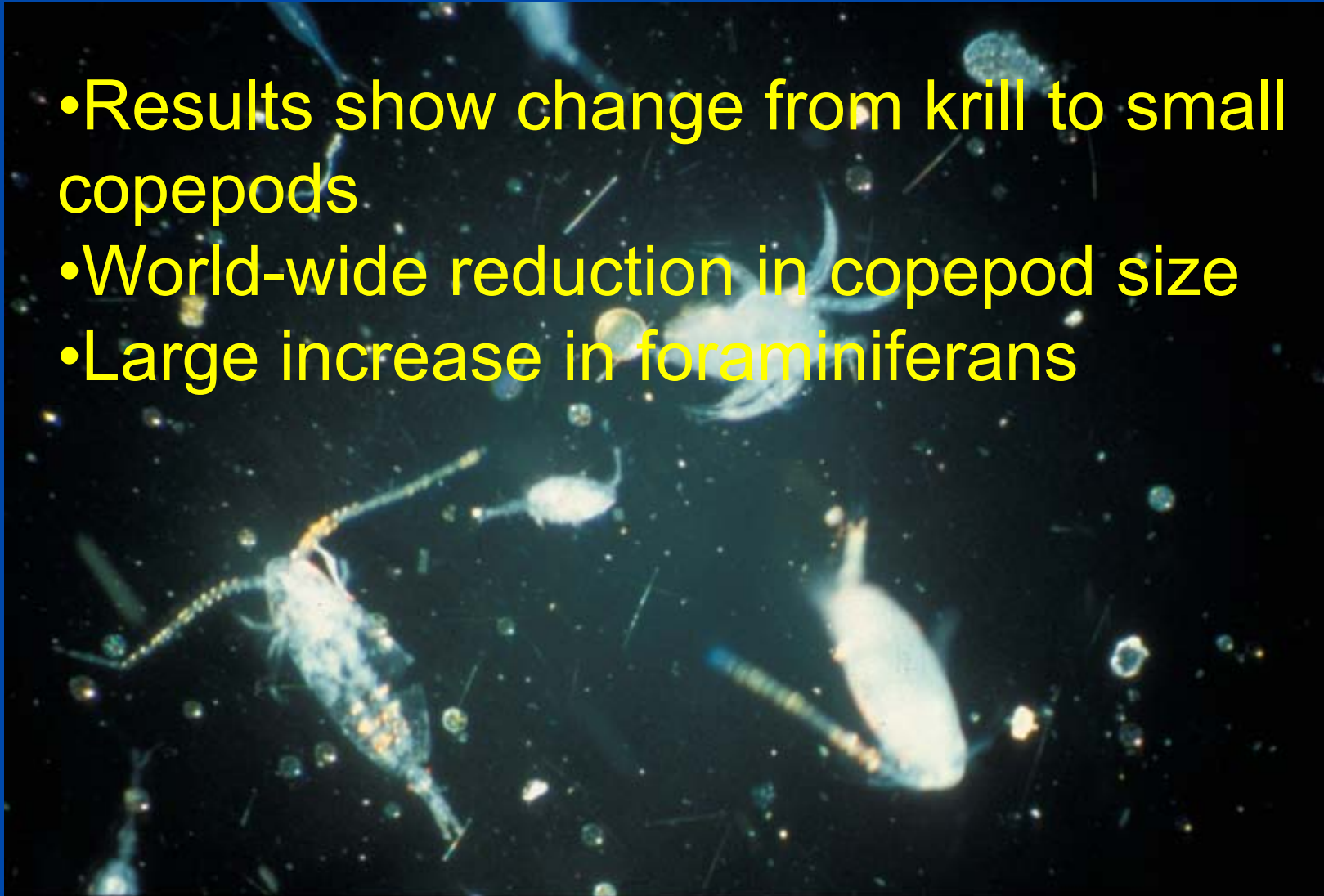


EG-Continuous Plankton Recorder

- About 90 tows around Antarctica in 2007/8 off 8 vessels
- 25,000 nautical miles or 5000 sample records
- NZ will add CPR's to toothfish fish vessels between NZ and the Ross Sea
- S. American LA-CAML consortium will add CPR tows across the Drake Passage

EG-Continuous Plankton Recorder

- Results show change from krill to small copepods
- World-wide reduction in copepod size
- Large increase in foraminiferans



EG-Continuous Plankton Recorder *Applications*

- Distribution patterns
- CCAMLR fisheries needs



Euphausia superba

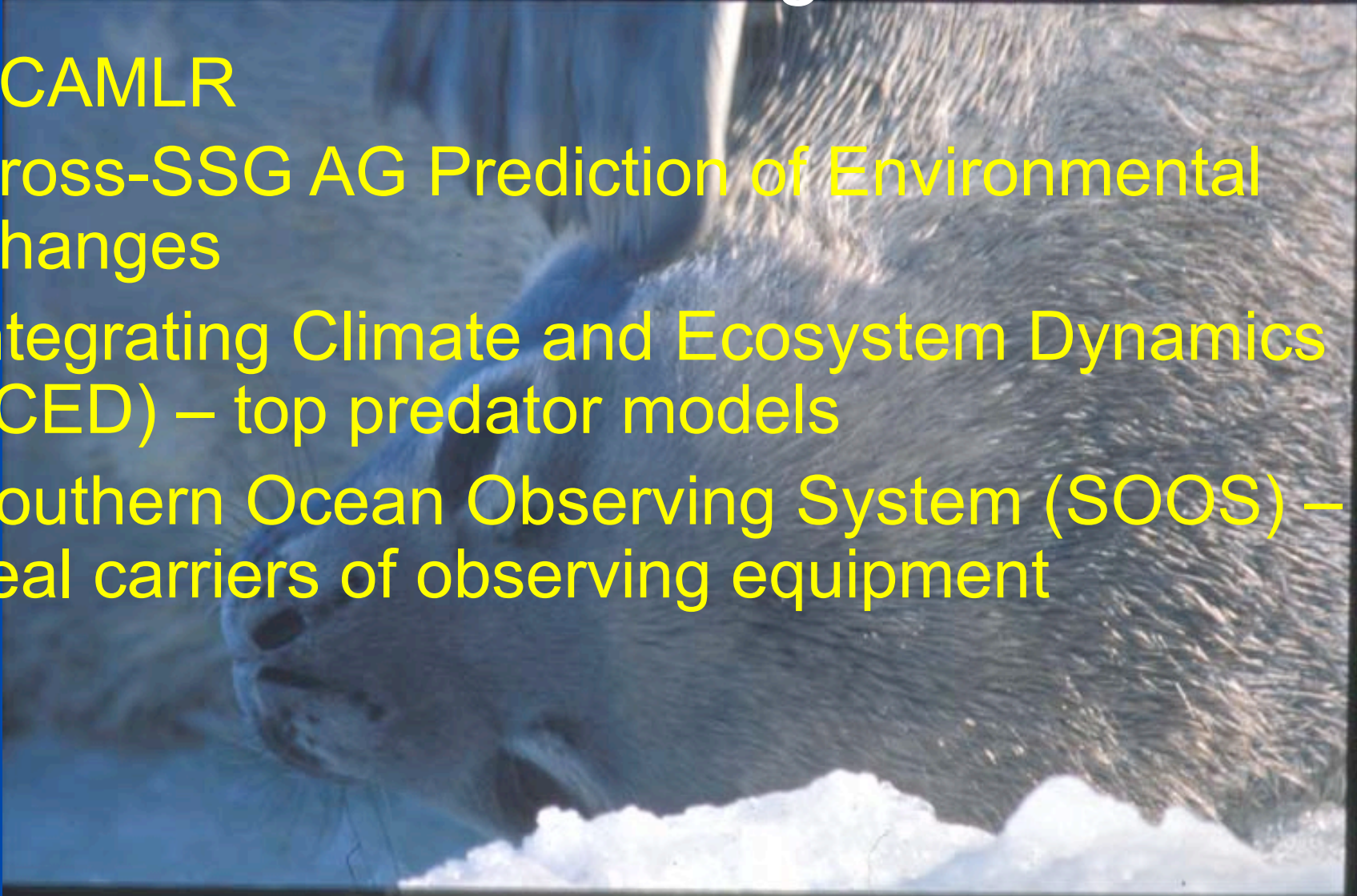
EG Birds & Marine Mammals

- Working in transition over 2-3 yr
- Terms of Reference will be finalized this year



EG Birds & Marine Mammals *cross linkages*

- CCAMLR
- Cross-SSG AG Prediction of Environmental Changes
- Integrating Climate and Ecosystem Dynamics (ICED) – top predator models
- Southern Ocean Observing System (SOOS) – seal carriers of observing equipment



SCAR-CCAMLR

- CCAMLR values SCAR' s big science progams such as BIOMASS, APIS and CAML
- Benthic part of CEAMARC (Collaborative East Antarctic Marine Census) identified two high diversity areas on the shelf which CCAMLR has registered as Vulnerable Marine Ecosystems and closed to fishing
- CCAMLR relies on SCAR and member nations to do the research
- CCAMLR needs the big picture projects such as ocean warming and ocean acidification



Cross-SSG Action Groups

SSSG-LS Representatives

- Prediction of Environmental Changes: Julian Gutt (Ger), Martin Riddle (Aus)
- Subglacial Aquatic Environments: Warwick Vincent (Chair)(Can), Guido di Prisco (Italy), Takeshi Naganuma (Japan)
- King George Is: Doris Abele (Ger)

Environmental Code of Conduct for Terrestrial Field Work

- Involved extensive consultation within SCAR and COMNAP
- Will be submitted as an Information Paper to the ATCM and CEP in June 2009

Xth SCAR International Biology Symposium

10th SCAR International Biology Symposium

Antarctic Biology Symposium

Main theme
Antarctic Biology in the 21st Century
-Advances in and beyond IPY-

Sub-themes

- Antarctic evolutionary history
- Adaptation to extreme environments
- Marine biodiversity and processes
- Patterns and diversity in the terrestrial system
- Environmental change and the human factor
- Outreach and education

Date
26-31 July 2009

Public Lecture
29 July 2009

Venue
Conference Hall, Hokkaido University
Sapporo, Japan

Abstract submission deadline
31 January 2009

Registration fee
Participant registration 35,000 JP Yen
(45,000 JP Yen after 1 April 2009)
Student / Early career registration 20,000 JP Yen

Website
<http://scarbiologysymposium2009.jp>

Logos at the bottom: SCAR, ICSU, and the Antarctic Treaty System logo.

- 217 registrants
- Registration deadline Feb 20, 2009
- <http://scarbiologysymposium2009.jp>