The Non-Steady State of the Inner Shelf and Shoreline
Coastal change on the time scale of decades to millennia in the
late Quaternary.

University of Hawaii, Honolulu, U.S.A.

Final Conference Agenda

Tuesday, November 9, 1999
7:30am – Continental Breakfast
8:00am – Welcome, Blessing and Introductory Remarks,
8:15am – IGCP #437 Dr. Colin Murray-Wallace, Project Leader

Scientific Session #1
8:30am – Richard Peltier, Global Glacial Isostasy and Coastal Evolution (45 min.)
9:15am – Poster Viewing (30 min.)
9:45am – Research Briefings, Principal Investigators (10 min. ea.)

9:50 – 10:00 H. Yamano, H. Kayanne and N. Yonekura, Internal structure and late Holocene evolution
of Kabira Reef, Ishigaki Island, Southwest Japan

10:00 – 10:10 P.D. Nunn, Illuminating sea-level fall around AD 1220-1510 (730-440 cal yr BP) in the Pacific
Islands: implications for environmental change and cultural transformation.

10:10 – 10:20 B.M. Richmond, C.H. Fletcher, R.A. Mullane, Pacific Island beach systems: examples from
Hawaii and Micronesia.

10:20 – 10:30 D.M. Kennedy and C.D. Woodroffe, Holocene reef growth on high-latitude south Pacific
reefs

Great Barrier Reef Province during the Holocene sea-level highstand.

10:40 – 10:50 I. Goodwin and E.E. Grossman, Coastal evolution and sea-level changes in Samoa since the
Mid Holocene.

10:50 – 11:00 Y. Ota, K. Sasaki, A. Omura, Holocene sea level and tectonic history at Kikai Island, the
northern Ryukyu Islands, as deduced from drilling survey through coral reef terraces.

Break – Poster Viewing (20 min.)

11:20 – 11:30 N.-A. Mörner, D. Rossetti, P. de Toledo, Sea level changes in NE Brazil, regional eustasy and
local tectonics.

curves from the southwest Atlantic Ocean

11:40 – 11:50 R.J. Angulo and M.C. de Souza, Relative variation curves in sea-level during the last 7000
years in Brazil: A review

influence in a mangrove of Sepetiba Bay–RJ (Brasil), in the last 6000 years.

12:00 – 12:10 R. Baitelli, L.E.S.B. Almeida, E.E. Toldo, Jr., C.E. Barros, L.R. Martins and J.L. Nicolodi
Retreat of the Rio Grande Do Sul Coastal Zone, Brasil.

12:10 – 1:30 Lunch available at Campus Center (not hosted)
Scientific Session #2

1:30pm – Colin Woodroffe, Morphodynamic response of shorelines to interglacials (45 min.)
2:15pm – Poster Viewing (30 min.)
2:45pm – Research Briefings, Principal Investigators (10 min. ea.)

2:50 – 3:00 E.A. Felton, Coarse gravel facies associated with rocky shorelines: significance for evaluating claims of tsunami and hurricane deposition.
3:30 – 3:40 H. Regnauld and R. Louboutin, Variability of beach profiles and meso-scale evolution of dune morphology: a linked approach (Brittany, France).
3:40 – 3:50 E. Isoun, C. Fletcher, N. Frazer, J. Harney, and J. Gradie, Passive airborne multi-spectral remote sensing application to nearshore, ocean-floor mapping and geology.

Break – Poster Viewing (20 min.)

4:10 – 4:20 D.A. Cacchione, B. Richmond, C. Fletcher, G. Tate, and J. Ferreira, Sand Transport in a Reef Channel off Kailua, Oahu, Hawaii.
4:20 – 4:30 J. N. Harney and C. H. Fletcher, The carbonate factory: 5000 years of sand production, flux and storage on a windward fringing reef (Kailua, Oahu, Hawaii).
4:50 – 5:00 C. J. Murray, Y-J. Chien and M. A. Hampton, An exploration model for sand resources, Kailua Bay.
5:00 – 5:10 E.E. Grossman and C.H. Fletcher, Holocene reef development in Kailua, windward Oahu, Hawaii shaped by wave forcing, Late Pleistocene antecedent topography and concomitant island uplift.

7:30 – 9:30pm Community Workshop, Coastal Change – Future Directions and New Ideas

Wednesday, November 10, 1999

Field Trip – Hanauma Bay
8:00am – 11:30pm
Buses will pick up conferees in front of the Conference Center at 8:00 am
Please dress in beach wear with sun screen, towel, sun hat, swimming clothes (snorkel gear if desired), lunch will be provided.

Scientific Session #3

1:00pm – Kelvin Berryman, The many faces of tectonics and its role in shaping Late Quaternary shorelines (45 min.)
1:45pm – Poster Viewing (30 min.)
2:15pm – Research Briefings, Principal Investigators (10 min. ea.)

2:20 – 2:30 N.-A., Mörner, Y. Ota, C. Firth, INQUA's contribution to sea-level research: the new commission and it's new program
2:30 – 2:40 C. Goldfinger and L.C. McNeill, Holocene sea-level change as a result of elastic and anelastic deformation along the central Cascadia Subduction Margin, USA.
N. Litchfield, Late Quaternary sea-levels and shore platforms on a tectonically rising coastline, New Zealand


C. Hapke and B. Richmond, Short-term episodic response of seacliffs to tectonic and climatic events: rates, failure style and spatial variability, Santa Cruz, California.


G.M. Kaminsky, H.M. Jol, P.J. Cowell, P. Ruggerio, G. Gelfenbaum, Measuring and modeling coastal progradation, catastrophic shoreline retreat and shoreface translation along the coast of Washington State, USA.

J.B. Rooney and C.H. Fletcher, decadal to century scale sand movement of a Hawaiian shoreline.

Break – Poster Viewing


A.C. Hinton and M.J. McSaveney, Schmidt hammer and weathering rind studies of a modern and uplifted beach sequence, Turakirae Head, New Zealand.

K. Schwarzer and Kerstin Schrottke, Shoreline displacement along the Southern Baltic Sea coastline due to sea-level changes and human impact.


M.E. Torresan, M.A. Hampton, and J.V. Gardner, Geophysical and geological monitoring of Hawaiian Ocean disposal sites.


Thursday, November 11, 1999

Scientific Session #4

8:00am – Richard Fairbanks, Quaternary sea-level cycles amplified by tropical sea-surface temperature changes. (45 min.)

8:45am – Poster Viewing (30 min.)

9:15am – Research Briefings, Principal Investigators (10 min. ea.)

9:20 – 9:30 I. Shennan, Global meltwater discharge and the deglacial sea-level record from Scotland.

9:30 – 9:40 D.E. Smith and C.R. Firth, The Mid-Holocene rise in sea-levels off Northwest Europe


10:00 – 10:10 J.V. Barrie and K.W. Conway, Rapid sea-level changes and coastal evolution on the Pacific margin of Canada


**Break – Poster Viewing** (20 min.)

10:50 – 11:00  **T. Boski, D. Moura, S. Camacho, D. Duarte, D. B. Scott, C. Veiga-Pires, P. Pedro, and P. Santana**, Postglacial sea-level rise in south Portugal as recorded in Guadiana Estuary.

11:00 – 11:10  **J. Grindrod, P. Moss and S. van der Kaars**, The Palynology of mangrove response to Late-Quaternary sea-level Change.

11:10 – 11:20  **B.P. Horton and I. Shennan**, Modelling Holocene depositional regimes in the western North Sea at 1000 year time intervals.

11:20 – 11:30  **J. Xueshen**, Division of Late Quaternary marine beds and in Bohai Gulf.


11:50 – 1:30  **Lunch for Conferees at Campus Center** (not hosted)

**Scientific Session #5**

1:30pm – **Paul Hearty**, Warm interglaciations, abrupt environmental change, and “The Antarctic ”Wild Card“ (45 min.)

2:15pm – Poster Viewing (30 min.)

2:45pm – Research Briefings, Principal Investigators (10 min. ea.)

2:50 – 3:00  **J.B. Anderson**, Antarctica's contribution to eustasy during the past glacial/interglacial cycle.

3:00 – 3:10  **O. van de Plassche**, Century-scale sea-level changes in Long Island Sound since AD 500; Correlation with North Atlantic climate-ocean changes.


3:20 – 3:30  **J.A.G. Cooper**, The role of extreme floods in estuary-coastal behaviour: Contrasts between small river- and tide-dominated systems


**Break – Poster Viewing** (20 min.)

4:10– 4:20  **O.K. Mason**, Coastal re-organization north of Bering Strait during the Early Medieval Glacial Episode, AD 750-1150.


**Waikiki Dinner at the Halekulani Hotel** - bus pick-up at the conference site at 5:45pm

**Friday, November 11, 1999**

**Scientific Session #6**

8:00am – **Larry Edwards, K. Cutler, H. Cheng, J. Adkins, F. W. Taylor, C. D. Gallup and R. Speed**, Sea-level and deep ocean temperature history over the last 200,000 yr (45 min.)
8:45am – Poster Viewing (30 min.)
9:15am – Research Briefings, Principal Investigators (10 min. ea.)


9:40 – 9:50  **A. Molodkov and N. Bolikhovskaya**, Eustatic sea-level and climate changes over the last 600 ka as derived from mollusc-based ESR-chronostratigraphy and pollen evidence in the Eurasian North.


10:00 – 10:10  **D.B. Scott and R.R. Stea**, Late Quaternary relative sea-level variations in the North Atlantic: Comparison of mid-Holocene highstands to the last interglacial (isotope stage 5e) highstands.


**Break – Poster Viewing** (20 min.)

10:50 – 11:00  **J. van der Molen and B. van Dijck**, Holocene tidal and wave-driven sand transport in the southern North Sea and the evolution of the Dutch coast.

11:00 - 11:10  **L. J. Kaszubowski**, Contemporary evolutional trends of the central Polish coast.


11:20 – 11:30  **C. Baeteman**, Factors controlling the formation of intercalated peat beds in the Holocene sequence of the coastal lowlands of the southern North Sea.

11:30 – 11:40  **G. Mastronuzzi and P. Sansò**, Sea-level changes and coastal dune development in Apulia (Southern Italy).


11:50 – 12:00  **C.E. Sherman, C.H. Fletcher and K.H. Rubin**, Accretion and diagenesis of Pleistocene reefal carbonates from a nearshore submarine terrace, Oahu, Hawaii.

**End Morning Session**

12:00 – 1:30  **Lunch for Conferees at Campus Center** (not hosted)

1:30 – 4:00  **Afternoon Business meeting of IGCP#437**