Accession No.: 82-58

PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

Munk, Walter Heinrich 1917 -

Walter Heinrich Munk Slides, 1931-1979

PHYSICAL DESCRIPTION: 624 slides

DESCRIPTION: 624 slides on waves, tsunamis, tides, acoustics, Venice and its flooding and damages, and SIO and IGPP buildings and grounds. Images of 'Spring Stirring" statue installation at IGPP. Two slides are numbered 461.

Walter Heinrich Munk Slides, 1930-1974
Accession Number 82-58

SLIDE	TITLE
	Miscellaneous Interval Waves and Acoustics [I.221-228]
1	[graph, n.d.]
2	[California Current, n.d.]
3	[line drawing, n.d.]
4	[depth chart, n.d.]
5 `	[radial acoustic graph, n.d.]
6	[Eastward Mooring Displacement, n.d.]
7	[graph, December, 1975-February, 1976]
8	[Ray Theory, Synthetic SOFARgram, comparison with measured values, graph, n.d.]
	Tidal Effects of Long-Range Sound Transmissions [I.201-206]
9	[graph, September-November, 1978]
10	[Diurnal and Semidiurnal, graph, n.d.]
11	[graph, December, 1975-February, 1976]
12	[Predictions, graph, March, 1976]
13	[Moored Source: fixed receiver & moored receiver, graph, April-May, 1979]
14	[graph, n.d.]
	Internal Wave Spectra at the Buoyant and Inertial Frequencies [I. 181-188]
15	[graph, n.d.]
16	[graph, n.d.]
17	[graph, n.d.]
18	[graph, n.d.]

SLIDE	TITLE
	Internal Wave Spectra at the Buoyant and Inertial Frequencies (continued)
19	[graph, n.d.]
20	[graph, n.d.]
21	[graph, n.d.]
22	[graph, n.d.]
	January 1980 Seattle Meeting and Ocean Variability [I. 121-129]
23	[graph, September-November, 1978]
24	[Atlantic Eddies Surrounding Bermuda, depth chart, n.d.]
25	[graph and data table, n.d.]
26	[graph, n.d.]
27	[site determination chart, n.d.]
28	[site description, graph, n.d.]
29	[Pacific Ocean, n.d.]
30	[graph, September-November, 1978]
31	[Byte Magazine, August, 1979]
	Tomography Proposal to NSF [I.101-107]
32	[Atlantic Eddies Surround Bermuda, depth chart, n.d.]
33	[graph, n.d.]
34	[graph and data table, n.d.]
35	[Bermuda and Eleuthera, graph, 1961-1963]
36	[graph, September-November, 1978]
37	[Ray Theory, compared with measured data, graph, September 18-20, 1978]
38	[Sound Speed at Depths, graph, n.d.]

SLIDE	TITLE
	February 1981, Experiment Bermuda Square [I.241-259]
39	[Man with equipment on deck, n.d.]
40	[Man working on equipment on deck, n.d.]
41	[Man with spherical equipment on deck, n.d.]
42	[Man with control panel on deck, n.d.]
43	[Man with equipment on deck, n.d.]
44	[Man with control panel on deck, n.d.]
45	[Man working on equipment on deck, n.d.]
46	[Research equipment, n.d.]
47	[Research equipment, n.d.]
48	[Equipment on deck, n.d.]
49	[Man with spherical equipment on deck, n.d.]
50	[Man working on cylindrical equipment on deck, n.d.]
51	[Man with spherical equipment on deck, n.d.]
52	[Cylindrical equipment, n.d.]
53	[Three men at dining table, n.d.]
54	[Man working, n.d.]
55	[Spherical equipment floating in ocean, n.d.]
56	[Man working on cylindrical equipment on deck h, n.d.]
57	[Man with spherical equipment on deck, n.d.]
	On the Dynamics of Neutrally Buoyant Capsules [I.21-29]
58	[Temperature at Depths, graph, n.d.]
59	[Capsule Displacement per Time, graph, n.d.]

SLIDE	TITLE
	On the Dynamics of Neutrally Buoyant Capsules (continued)
60	[Capsule Depth per Time, graph, n.d.]
61	[graph, n.d.]
62	[graph, n.d.]
63	[graph, n.d.]
64	[graph, n.d.]
65	[Oscillatory Damping Force, graph, n.d.]
66	[graph, n.d.]
	Carl Wunsch Slides used in Talks in PRC, June, 1977 [I.1-6]
67	[chart, n.d.]
68	[Depth Charts, n.d.]
69	[Transport, East Coast chart, n.d.]
70	[Cape Henry section, data, n.d.]
71	[chart, n.d.]
72	[chart, n.d.]
	Internal Waves & Small Scale Processes [I.41-68]
73	[Cabo San Lazaro, photograph and depth chart, n.d.]
74	[chart, n.d.]
75	[Contours of Relative Velocity, graph, June, 1977]
76	[graph, n.d.]
77	[graph, n.d.]
78	[graph, n.d.]
79	[Frequency chart, n.d.]

SLIDE	TITLE
	Internal Waves & Small Scale Processes (continued)
80	[graph, n.d.]
81	[graph, n.d.]
82	[graph, n.d.]
83	[graph, n.d.]
84	[graph, n.d.]
85	[graph, n.d.]
86	[graph with equations, n.d.]
87	[Elastic Scattering, Induced Diffusion, and Parametric Subharmonic Instability, graph, n.d.]
88	[chart, n.d.]
89	[Couette Profile and Transition Layer, graph, n.d.]
90	[California Current, depth and frequency charts, n.d.]
91	[Internal Wave and Intrusive Glob, chart, n.d.]
92	[Internal Wave and Intrusive Glob, graph, n.d.]
93	[graph, n.d.]
94	[Tasaday and Southtow data, graph, n.d.]
95	[graph, n.d.]
96	[graph, n.d.]
97	[Graphs: active, fossil, n.d.]
98	[Vertical Displacement and Wind Stress, graph, June-July, 1974]
99	[Kinetic Energy and Wind Stress, graph, August-September, 1977]
100	[graph, n.d.]

SLIDE	TITLE
	Ocean limits to Precision Acoustic Ranging [H.81-91]
101	[graph, n.d.]
102	[graph, n.d.]
103	[graph, n.d.]
104	[graph, n.d.]
105	[Scatter diagram, n.d.]
106	[diagram, n.d.]
107	[diagram, n.d.]
108	[graph, n.d.]
109	[Frequency diagrams: raw received signal, complex demodulated, inverse filtered, strong scatter, n.d.]
110	[Scatter diagrams: weak, stronger (unsaturated), very strong (saturated), n.d.]
111	[diagram, n.d.]
	1976 JOA, Edinburgh [H.61-75]
112	Major Features of the Surface Circulation of the Oceans (after McLellan), 1965
113	[Depth chart, 1973]
114	[Depth chart, April-June, 1973]
115	[Isotherms and Current Vectors, graph, April, 1973]
116	[data table, n.d.]
117	[Currents and Eddies, chart, n .d.]
118	[Cloud Formations, aerial photograph, n.d.]
119	[Current Vectors, graph, May, 1970]
120	Abundance of Dominant Euphausiids [graph, n.d.]
121	[Transmitter and Receiver Locations, diagram, n.d.]

SLIDE	TITLE
	1976 JOA, Edinburgh [H.61-75]
122	April 28, 1974 Gulf Stream IR Data
123	[East Coast of United States, chart, n.d.]
124	Temperature Section, Nova Scotia-Bermuda, August 14-20, 1932
125	Temperature Section, Nova Scotia-Bermuda, November 21-26, 1931
126	[East Coast of United States, data and diagram, March 16-July 9, 1973]
	Monitoring the Ocean Acoustically [H.41-49]
127	[graph, n.d.]
128	[Diagram of reseach equipment hanging from ship, n.d.]
129	[graph, n.d.]
130	[graph of depth vs. range, n.d.]
131	[Graphs: processed phase, processed amplitude, received signal, n.d.]
132	[graph, n.d.]
133	[data plot, n.d.]
134	[data plot, n.d.]
135	[graph, n.d.]
	Ocean Hearing [H.1-6]
136	[graph, n.d.]
137	[graph, n.d.]
138	[graph, n.d.]
139	[graph, n.d.]
140	[RMS Cycles, graph, n.d.]
141	[graph, n.d.]

SLIDE	TITLE
	Directional Wave Spectra [G.1-19]
142	[graph, n.d.]
143	[Graphs: backscatter power vs. frequency, n.d.]
144	[Wake Island, diagram, n.d.]
145	[graph, November 13-17, n.d.]
146	[Wind Speed and Wind Direction, graph, November 11-19, 1972]
147	[graph, November 11-19, n.d.]
148	[graph, November 13-15, 1972]
149	[graph, November 13-15, 1972]
150	[graph, November 13-15, 1972]
151	[graph, n.d.]
152	[graph, November 14-15, 1972]
153	[graph, January 17, 1973]
154	[graph, May 24, 1973]
155	[Determination of Ocean Surface Conditions by long range radar reflections. North Atlantic Ocean Weather Data, chart, April 20, 1972]
156	[graph, May 24, 1973]
157	[graph, May 24, 1973]
158	[graph, n.d.]
159	[Location of current drogue, n.d.]
160	[San Clemente Island Data, January 17, 1973]
	"Wiggliness" and Mode Tides [F .21-27]
161	[graphs: diurnal, semidiurnal, n.d.]
162	Mode Tides, n.d.

SLIDE	TITLE
	"Wiggliness" and Mode Tides (continued)
163	[graphs: diurnal, semidiurnal, n.d.]
164	[graphs: diurnal, residuals, reference predicted series, n.d.]
165	[graph, n.d.]
166	[chart, n.d.]
167	[graphs: CPD, n.d.]
	Mode Bottom Experiment [F.1-18]
168	[chart, n.d.]
169	[Reiko, Mert, Edie. Data, March-July, n.d.]
170	[Mode data, March-July, n.d.]
171	[Filter Response, graph, n.d.]
172	[Pressure graphs: atmospheric, sea level, bottom. March-July, n.d.]
173	[chart, n.d.]
174	[chart, n.d.]
175	[Coherence and Phase, graph, n.d.]
176	[Coherence and Phase, graph, n.d.]
177	[Coherence and Phase, graph, n.d.]
178	[diagram of Mode Area, Bermuda, n.d.]
179	[graph, n.d.]
180	[chart, March-July, n.d.]
181	[Mode, Pacific. Graph, March-July, n.d.]
182	[graph, n.d.]
183	[chart, Reiko, Edie. n.d.]

SLIDE	TITLE
	Mode Bottom Experiment (continued)
184	[Mathematical Formulas, n.d.]
185	[chart, Merit, Edit, Reiko. March-July, n.d.]
	Internal Wave Observations from a Midwater Float [E.81-88]
186	[graph: depth (June ’74), n.d.]
187	[Phase, Coherence, and Power Spectrum, graph, n.d.]
188	[Coherence, Phase, Vertical Separation, graph, n.d.]
189	[graph, power spectrum, frequency. n.d.]
190	[Misery 1, Misery 3, frequency. chart, n.d.]
191	Instrument Capsule Configuration [diagram, n.d.]
192	[Female Figure, matte painting, n.d.]
193	[graph, n.d.]
	GM74 [E.61-72]
194	Paper number One, Munk [graph, n.d.]
195	Katz Spectra, Solid Curve, Garret and Munk Spectrum, 1972
196	Towed Lagged Coherence [graph, n.d.]
197	[graph, n.d.]
198	[three-dimensional graphic representation, n.d.]
199	Spectra by Millard with Brown CTD [graph, n.d.]
200	[graph, n.d.]
201	Dropped Horizontal Coherence [graph, n.d.]
202	Towed Vertical Coherence [graph, n.d.]
203	Top-Hat (GM 72) [equations, n.d.]

SLIDE	TITLE
	GM74 (continued)
204	Dropped Lagged Coherence [graph, n.d.]
205	Cairns Letter [Displacement graph, June 11-12, 1973]
	Scenario [E.21-27]
206	Cover of “The Sea, Ideas and Observations on Progress in the Study of the Seas”, n.d.
207	[Major Ocean Currents, diagram, n.d.]
208	[graph: oxygen and carbon dioxide levels, n.d.]
209	Scan x49 [Excess Radon, graph, n.d.]
210	Carbon-14 GEOSECS [graph, n.d.]
211	[graph: salinity, temperature, n.d.]
212	Radium, Broecker, Li, and Cromwell, North East Equatorial Pacific [graph, n.d.]
	Space-Time Scales of Interval Waves [E.1-10]
213	[graph, n.d.]
214	[graph, n.d.]
215	[graph, n.d.]
216	[graph, n.d.]
217	Moored Vertical Coherence and Towed Vertical Coherence, [graph, n.d.]
218	[graph, n.d.]
219	[graph: highlands, slope, n.d.]
220	[graph: slow tow, fast tow, n.d.]
221	[graph, n.d.]
222	[three-dimensional graph: wave number, frequency, n.d.]

SLIDE	TITLE
	Venice (M. Hendershott) [D.101-108, D.110-115]
223	[Mestre, Lido di Venezia, Estuario, Venezial: Venice city map, 1970]
224	[Venice Estuary / Estuario map, c. 1970]
225	[two men in gondola, 1946, n.d.]
226	Curve Ipsografi.che del Centro Storico di Venezia, 1961
227	[water levels marked on column: 4/11/66, 12/11/51, 16/4/36, 21/11/16, n.d.]
228	[water levels marked on column: 4/11/66, 12/11/51, 16/4/36, 21/11/16, n.d.]
229	[flood damage, debris floating by building, photo, n.d.]
230	[boats in waterway between buildings, photo, n.d.]
231	[partially submerged building, photo, n.d.]
232	[partially submerged building, photo, n.d.]
233	[man in boat next to partially submerged buildings, n.d.]
234	[People huddled against waves next to boats, n.d.]
235	[tide, water flooding streets, n.d.]
236	Distribuzione della Superfice del Centro Storico di Venezia alle Varie Quote nel 1908 [and] 1961 [chart, 1961]
	Venice [D.81-85, D.87-92]
237	[building with people, n.d.]
238	[people walking by water's edge with building reflections, n.d.]
239	[water damaged building, remains of a doorway, n.d.]
240	[gondoliers with passengers in gondolas, photo, n.d.]
241	[gondolier with passenger in gondola, with buildings, n.d.]
242	[water damaged building, building door, n.d.]
243	[water damaged building, n.d.]

SLIDE	TITLE
	Venice (continued)
244	[mosaic on building with wall crack, n.d.]
245	[water damaged building, building arch, n.d.]
246	[building alley walkway, photo, n.d.]
247	[mosaic with damage, n.d.]
	Venice (Ralph Wuerker slides) [D.62-70, D.72-73]
248	[city square, 93356-72, n.d.]
249	[building and bridge, 93357-72, n.d.]
250	[studio, man sitting with equipment, 93367-72, n.d.]
251	[open air market by waterway, 93359-72, n.d.]
252	[studio, two men with angel statues, 93362-72, n.d.]
253	[cityscape aerial, 93361-72, n.d.]
254	[studio,man at work with equipment, 93363-72, n.d.]
255	[building at edge of water, 93360-72, n.d.]
256	[statue, 93365-72, n.d.]
257	[person painting inside, 93355-72, n.d.]
258	[unidentified object, 93364-72, n.d.]
	Venice Hologram [D.41-48, D.50-59]
259	[falling tower, n.d.]
260	[lower horse statue by building, n.d.]
261	[building, n.d.]
262	[people by building rubble, n.d.]

SLIDE	TITLE
	Venice Hologram (continued)
263	[sketch of boat construction, n.d.]
264	[sketch of a ship, n.d.]
265	[sketch, n.d.]
266	[etching of two men building with wood, n.d.]
267	[etching of man on boat with floating house, n.d.]
268	Galleria dell'Accademia, slide number VA22, Bellini, Processione (Parade) in piazza San Marco [slide copyright 1969]
269	National Gallery of Art, slide number 1604, Turner, The Dogana and Santa Maria della Salute
270	Slide number A-19, Donatello, St. John the Baptist
271	Slide number 1365, Carpaccio, Madonna and Child
272	Slide number 603, Canaletto, View in Venice
273	Slide number 1408, Titian, Doge Andrea Gritti
274	Slide number· 1605, Canaletto, The Portello and the Brenta Canal at Padua
275	Slide number 876, Canaletto, The Square of Saint Mark's
276	Slide number 1846, Monet, Palazzo da Mula, Venice
	Venice Hologram [D.21, D.23-26, D.28, D.30-31, D.33-36, D.39-40]
277	[painting, building by water with boats, n.d.]
278	Gallerie dell'Accademia, slide number 504, Carpaccio, Miracolo della S. Croce
279	[etching, woman sitting with objects, n.d.]
280	[etching, two men, n.d.]

SLIDE	TITLE
	Venice Hologram (continued)
281	[print, festival by water, n.d.]
282	[print, building, n.d.]
283	[print, building with people, n.d.]
284	[print, people working at a press, n.d.]
285	[Renaissance period map of Venice, n.d.]
286	[print, two men fighting with words “oppone si element ad element”, n.d.]
287	[etching, boat crossing dam, n.d.]
288	Die Murazzu [painting, coastline with buildings, n.d.]
289	[print, train crossing bridge over water, n.d.]
290	[Plan of a tower, n.d.]
	Venice Hologram [D.1-4, D.7-13, D.16-19]
291	[Contemporary map of Venice, n.d.]
292	[Diagram of contemporary and historic Venice, bridges and gates of canal, n.d.]
293	[Diagram of contemporary and historic Venice, n.d.]
294	[Chart of local governmental echelons, “Great Council”, n.d.]
295	[print, boat launching from floating building, n.d.]
296	[print, construction of ship hull, n.d.]
297	[print, two men working with wood, n .d.]
298	[print, buildings, n.d.]
299	[print, ships on water, n.d.]
300	[print, n.d.]

SLIDE	TITLE
	Venice Hologram (continued)
301	[Venice population vs. water level, graph, n.d.]
302	[print, highway with cars by buildings, n.d.]
303	[print, building by river, n.d.]
304	[print, huts with tools, n.d.]
305	[print, ship, n.d.]
	Directional Swell [C.201-212, C.238]
306	[graph, October 6, 1956, n.d.]
307	[graph, n.d.]
308	[graph, n.d.]
309	[graph, May, 1959]
310	[graph, October, 1959]
311	[graph, August-September, 1959]
312	[graph, August-September, 1959]
313	[graph, October, 1959]
314	[South Pole-Antarctica, chart, n.d.]
315	[Chart of the world, n.d.]
316	[Southeast Pacific Ocean, chart, n.d.]
317	Honolulu, Hawaii [graph, Energy density vs Frequency, n.d.]
318	[graph, n.d.]
	SAS [C.181-194]
319	[person standing and looking out at horizon, n.d.]

SLIDE	TITLE
	SAS (continued)
320	[man standing in snow, n.d.]
321	[men outside house by beach, n.d.]
322	[vertical FLIP, photo, n.d.]
323	[horizontal FLIP, photo, n.d.]
324	[FLIP, photo, n.d.]
325	[coastline, n.d.]
326	[foliage, n.d.]
327	[compound with vehicle, n.d.]
328	[aerial photo of mountain, n.d.]
329	[aerial photo of buildings, n.d.]
330	[waves crashing against shore, n.d.]
331	[Samoa beach, n.d.]
332	[Samoa, hut by beach, n.d.]
	SAS (Haubrich/Bradner) [C.161-172]
333	[diver in water with spherical equipment, n.d.]
334	[ship, n.d.]
335	[equipment, n.d.]
336	[four men fishing out equipment from ship, n.d.]
337	[photo of ship from beach, n.d.]
338	[box overlooking coast, n.d.]
339	[rocky beach with foliage, n.d.]

SLIDE	TITLE
	SAS (Haubrich/Bradner) (continued)
340	[photo of coastline from distance, n.d.]
341	[two men standing on plank outside, n.d.]
342	[three men relaxing with food and drink, n.d.]
343	[diagram of spherical equipment, n.d.]
344	Seismic Background Spectra on Land and Sea, February 8, 1963
	SAS [C.141-158]
345	[vector diagram, n.d.]
346	[background data, graph, n.d.]
347	[graph, n.d.]
348	[graph, n.d.]
349	[graph, July-September, n.d.]
350	Power Spectra, Normalized Co-spectra, Normalized Quadrature Spectra, n.d.
351	[graph, n.d.]
352	[graph, n.d.]
353	[graph, n.d.]
354	[graph, July-September, n.d.]
355	[equations & graphs: Scattering Interactions, Boltmann integral, Results, n.d.]
356	[equations & graphs: Equation of Radiative Transfer, n.d.]
357	[graph, n.d.]

SLIDE	TITLE
	SAS (continued)
358	[graph, n.d.]
359	[Course of FLIP, chart, n.d.]
360	[island chain, chart, n.d.]
361	Tutuila [chart, n.d.]
362	[graph, n.d.]
	Deep Sea Breakers [C.121-127]
363	[Ship at Sea, aerial photo, n.d.]
364	[Ship at Sea, aerial photo, n.d.]
365	[Clipper Ship, n.d.]
366	[Deck of Ship with large waves, photo, n.d.]
367	[Ship at Sea, aerial photo, n.d.]
368	[aerial photo of water, n.d.]
369	[Ship at Sea, aerial photo, n.d.]
	Shorebreaking [C.101, C.103-113]
370	[waves crashing against a rock (shot from the beach), n.d.]
371	[waves, n.d.]
372	[waves crashing against a coast, n.d.]
373	[waves, n.d.]
374	[waves, n.d.]
375	[Surf and Surfers, photo, n.d.]

SLIDE	TITLE
	Shorebreaking (continued)
376	[Surf and Surfers, photo, n.d.]
377	[Surf and Surfers, photo, n.d.]
378	[waves, n.d.]
379	[Surf and Surfers, photo, n.d.]
380	[Surf and Surfers, photo, n.d.]
381	[Surf and Surfers, photo, n.d.]
382	[Surf and Surfers, photo, n.d.]
	Ocean Turbulence [E.41-48]
383	[chart, June 21, 1970, n.d.]
384	The Wave-Cloud Formation at Denver, February 14, 1953
385	[chart, February 6, 1970]
386	"Starry Night," Van Gogh [painting, n.d.]
387	[art work, n.d.]
	Tsunami-Breakers [C.81-89]
388	[waves, n.d.]
389	View of the Explosion at 13h 12m, September 23, 1952
390	[Explosion, photo, n.d.]
391	[man standing by explosion on beach, n.d.]
392	[beach house and waves under strong winds, n.d.]
393	[people running from coast, n.d.]

SLIDE	TITLE
	Tsunami-Breakers (continued)
394	[wreckage of boats and post, n.d.]
395	[person in wreckage looking out at waves, n.d.]
396	[waves and wreckage, n.d.]
	Refraction [C.61-66, C.80]
397	[aerial photo of waves along coast, n.d.]
398	[aerial photo of waves along coast, n.d.]
399	[aerial photo of waves along coast, n.d.]
400	[aerial photo of waves along coast, n.d.]
401	[aerial photo of coastline, May 6, 1944]
402	[diagram: wave crests by coast, n.d.]
403	[aerial photo of waves along coast, n.d.]
	Refraction [C.41-56]
404	[cliffs by coastline, waves, n.d.]
405	[waves, aerial photo of coastline, n.d.]
406	[waves, aerial photo of coastline, n.d.]
407	[waves, aerial photo of coastline, April 2, 1946]
408	[waves, aerial photo of coastline, n.d.]
409	[waves along coast of small island, n.d.]
410	[waves, “deep channel, waves breaking up in to multiple crests, shallow channel”, n.d.]
411	[waves, aerial photo of coastline, n.d.]
412	[waves, aerial photo of coastline, n.d.]

SLIDE	TITLE
	Refraction (continued)
413	[waves, aerial photo of coastline, n.d.]
414	[waves, aerial photo of coastline, n.d.]
415	[aerial photo of waves with small rock island, n .d.]
416	[waves, La Jolla Shores, diagram, n.d.]
417	[waves, diagram of wave travel against shoreline, n.d.]
418	[waves, diagram of wave travel against shoreline, n.d.]
419	Swell From WNW, [diagram of waves against coastline, n.d.]
	Glitter, Slicks, Capillaries [C.21-27]
420	[Reverie, ship, watercolor, n.d.]
421	[waves, n.d.]
422	[waves, aerial photo of coastline, n.d.]
423	[waves, August 31, 1953]
424	[diagram of coastline, n.d.]
425	[waves, aerial photo with overlaying map, September 17, 1951]
426	[waves, aerial photo with overlaying map, August 29, 1951; September 3-4, 1951; September 10,1951]
	Elementary Wave Theory [C.1-3]
427	Orbital Motion, [chart, n.d.]
428	[diagram of waves intersecting, n.d.]
429	[diagram of sand bottom, August 2, 1954]

SLIDE	TITLE
	Tides Off Shore [B.161-180]
430	[Southern California Shoreline, diagram, n.d.]
431	[graph, n.d.]
432	[graph, n.d.]
433	[graph, n.d.]
433	[graph, n.d.]
434	[graph, n.d.]
435	[graph, n.d.]
436	[graph, n.d.]
437	[graph, n.d.]
438	[graph, n.d.]
439	[graph, n.d.]
440	[graph, n.d.]
441	[graph, n.d.]
442	[graph, n.d.]
443	[graph, n.d.]
444	[graph, n.d.]
445	[diagrams of observed currents, n.d.]
446	[map with diagrams of observed currents, n.d.]
447	[map with diagrams of observed currents, n.d.]
448	[Multiple Site Diagrams, 1904-1967]

SLIDE	TITLE
	Tides Off Shore (continued)
449	[Multiple Site Diagrams, 1944-1967]
	Tides Off Shore (continued) and Antarctic Launch [B.181-186, B.191-196]
450	[graph, “range if typical deep sea conditions”, n.d.]
451	[chart, n.d.]
452	Table of M2 Tidal Constants, n.d.
453	Table of K1 Tidal Constants, n.d.
454	Summary of Tidal Constants, n.d.
455	Josie II Observed Currents, n.d.
456	[Equipment in ocean, n.d.]
457	[Equipment hanging off side of a ship, n.d.]
458	[Equipment hanging over ocean, n.d.]
459	[Equipment hanging off side of a ship, n.d.]
460	[Two Men & equipment handing off side of ship, n.d.]
461	[Men with equipment on deck, n.d.] [2 slides are numbered 461]
461	M2, [data table, n.d.] [2 slides are numbered 461]
462	[data table, n.d.]
	Shallow Tides/Tide Theory [B.141-154]
463	Incident Amplitudes [graph, n.d.]
464	[graph, n.d.]
465	[graph, n.d.]

SLIDE	TITLE
	Shallow Tides/Tide Theory (continued)
466	[graph, n.d.]
467	[equations: tide potential, convolution prediction, harmonic prediction, nonlinear convolution, nonlinear harmonic, n.d.]
468	[graph, n.d.]
469	[graph, n.d.]
470	[graph, n.d.]
471	[graph, n.d.]
	Shallow Tides/Tide Theory [B.141-154]
472	[graph, n.d.]
473	[graph, n.d.]
474	[graph, n.d.]
475	[World] Chart of Cotidal Lines, n.d.
476	Map: Contours of Gravitational Potential, Corresponding High Tide, n.d.
	Benthic Boundary Layer [B.121-129]
477	[data table, n .d.]
478	[data table, n.d.]
479	[graph, n.d.]
480	[graph, n.d.]
481	[graph, n.d.]
482	[graph, n.d.]
483	[graph, n.d.]

SLIDE	TITLE
	Benthic Boundary Layer (continued)
484	[graph, n.d.]
485	[graph, n.d.]
485	[graph, n.d.]
	Tidal Friction (Jeffreys) [B.101-108]
486	[data table, n.d.]
487	[data table, n.d.]
488	[data table of solar eclipses in antiquity, n.d.]
489	[diagram, n.d.]
490	[graph, n.d.]
491	[data table, n.d.]
492	[data table “dissipation during Gerstenkorn event”, n.d.]
493	[graph, March 27-28, 1968]
	Abyssal Recipes [B.81-90]
494	[graph, n.d.]
495	[graph, n.d.]
496	[graph, n.d.]
497	[graph, n.d.]
498	[graph, n.d.]
499	[graph, n.d.]

SLIDE	TITLE
	Abyssal Recipes (continued)
500	[graph, n.d.]
501	[graph, n.d.]
502	[diagram of ice coverage, n.d.]
503	[October Ice Limit, graph, n.d.]
	Earth Rotation [B.61-63, B.65-71]
504	[graph, n.d.]
505	[graph, n.d.]
506	[graph: modern vs. ancient, n.d.]
507	[graph, n.d.]
508	[data table, n.d.]
509	[graph, n.d.]
510	[graph, n.d.]
511	[graphs: Tidal Friction and Core Accretion, tidal friction, Wells' observations, n.d.]
512	[data table, Brown vs. Brouwer, n.d.]
513	[photo, rock specimens, n.d.]
	Tidal Spectroscopy [B.41-43, B.45-48, B.50-52, B.54-60]
514	[poem by Hilare Belloc, n.d.]
515	[graph, n.d.]
516	[graph, n.d.]
517	[graph, n.d.]

SLIDE	TITLE
	Tidal Spectroscopy (continued)
518	[graph: mean sea ice level, n.d.]
519	[graph, n.d.]
520	[graph, n.d.]
521	[graph, n .d.]
522	[graph: auto-covariance, predicted variance, n.d.]
523	[graph, n.d.]
524	[graph, n.d.]
525	[graph, n.d.]
526	[graph: atmospheric pressure, n.d.]
527	[graph, n .d.]
528	[graph: atmospheric pressure, n.d.]
529	[graph: atmospheric pressure, n.d.]
530	[Map of the World, n.d.]
	Deep Sea Tides [B.21-40]
531	[Docked Ship, n.d.]
532	[Equipment on deck, n.d.]
533	[Men with equipment on deck, n.d.]
534	[Men with equipment on deck, n.d.]
535	[Men working on deck, n.d.]
536	[Men with equipment on deck, n.d.]
537	[Men with equipment on deck, n.d.]

SLIDE	TITLE
	Deep Sea Tides (continued)
538	[Man with equipment in water, n.d.]
539	[Men working on deck, February, 1966]
540	[Men working on deck, n.d.]
541	[Men working on deck, n.d.]
542	[Men working on deck, n.d.]
543	[Men with equipment on deck, n.d.]
544	[Men with equipment on deck, n.d.]
545	[Men with equipment on deck, n.d.]
546	[Men with equipment on deck, n.d.]
547	[Men working on deck, n.d.]
548	Judith, February 13-20, 1966 [graph]
549	[diagram of research equipment, n .d.]
550	World Map: Contours of Gravitational Potential, corresponding high tide, n.d.]
	Deep Sea Tides [B.1-20]
551	[docked boat, n.d.]
552	[equipment on deck, n.d.]
553	[Men with equipment on deck, n.d.]
554	[two men with half-submerged equipment, n.d.]
555	Identification of a Deep-Sea Mooring-Cable Biter: Head and Jaws of a Barracudina *Sudis hyalina,* (photo, n.d.]
556	[Men with equipment, n.d.]

SLIDE	TITLE
	Deep Sea Tides (continued)
557	[photo of waves, shot from deck of ship, n.d.]
558	[Men with equipment on deck, n.d.]
559	[underwater photo of fish, October 17-19, 1967]
560	[Man looking out at the sea, n.d.]
561	[Men with equipment on deck, n.d.]
562	[Men with equipment on deck, n.d.]
563	[Spherical equipment, n.d.]
559	[underwater photo of fish, n.d.]
565	Thermistor 3 (55 Feet), Experiment 66-2A [graph, n.d.]
566	[photo of waves shot from deck of ship, n.d.]
567	[Men with equipment on deck, n.d.]
568	[Two men with equipment on deck, n.d.]
569	[Men with equipment on deck, n.d.]
570	[Man with equipment on deck, n.d.]
	SIO/IGPP, August, 1962 [A.61-76]
571	[aerial photo of SIO parking lot by pier with coast, August 15, 1962]
572	[SIO Pier with people on beach, August 15, 1962]
573	[SIO Pier with people by pier, August 15, 1962]
574	[SIO Lunch Area, August 15, 1962]
575	[Aerial photo of beach south of SIO, August 15, 1962]

SLIDE	TITLE
	SIO/IGPP, August, 1962 (continued)
576	Institute of Geophysics and Planetary Physics Construction Site, August 21, 1962 -- IGPP sign
577	Roel Construction Co. sign
578	Construction Site
579	Stick in sand
580	Construction by road
581	Construction by hill
582	House by road along beach
583	Construction by beach
584	[Photo of SIO parking lot by beach with pier, August 15, 1962]
585	[Project Engineers Office, IGPP, August 21, 1962]
586	IGPP Construction Site, August 21, 1962 – Photo of building by beach
	"Spring Stirring" IGPP (taken by Cecil Green, Dec. 1963) [A.41-55]
587	[crane lifting rock near a man, photo, n.d.]
588	[crane lifting rock, n.d.]
589	[crane lifting rock, n.d.]
590	[men digging dirt for the rock, n.d.]
591	[people watching crane lifting statue, n.d.]
592	[men placing statue on rock, n.d.]
593	[men placing statue on rock, n.d.]

SLIDE	TITLE
	"Spring Stirring" IGPP (taken by Cecil Green, Dec. 1963) (continued)
594	[people watching men place statue on rock, n.d.]
595	[men by statue on rock, n.d.]
596	[men by statue on rock, n.d.]
597	[people by statue on rock, n.d.]
598	[photo of beach, n.d.]
599	[people overlooking fabric, n.d.]
600	[person sitting by building, n.d.]
601	[SIO pier, shot from beach, n.d.]
	Miscellaneous SIO/IGPP [A.21-24, A.31-36]
602	[Man covered in ropes, n.d.]
603	[Men pulling up equipment from ocean, n.d.]
604	[ship, from a distance, n.d.]
605	[ship, n.d.]
606	[SIO, building, n.d.]
607	[IGPP, photo of beach shot from balcony, n.d.]
608	[IGPP, photo of beach shot from balcony, n.d.]
609	[IGPP, building, n.d.]
610	[IGPP, building, n.d.]
611	[IGPP, aerial photo of house by beach, n.d.]

SLIDE	TITLE
	Cecil Green Slides of IGPP (taken October, 1968) [A.1-10]
612	[IGPP, Spring Stirring statue, n.d.]
613	[IGPP, Spring Stirring statue, n.d.]
614	[IGPP, Spring Stirring statue, n.d.]
615	[IGPP, building, n.d.]
616	[IGPP, building, n.d.]
617	[IGPP, building, n.d.]
618	[IGPP, building, n.d.]
619	[IGPP, building, n.d.]
620	[IGPP, lawn by building, n.d.]
621	[IGPP, lawn by building, n.d.]
622	[IGPP, building, n.d.]
	Miscellaneous
623	People's Republic of China, Building with roof top slogan "Down with US Imperialism, Down with Soviet Revisionism"