

Accession No.: 2004-02

PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

Craig, Harmon Bushnell 1926-2003

Harmon Bushnell Craig Papers, 1952-1997

Physical Description: 13 mss, oversize

Description: The accession consists of the papers of geochemist Harmon Craig, subject, research and teaching files from Scripps Institution of Oceanography. The accession includes files on ALVIN dives and expeditions including GEOSECS Expeditions, Indomed, Monsoon, and Pascua. It includes GEOSECS project files, Craig's teaching notes, files on conferences and seminars, C13 data on ocean basalts and research files on Cold Fusion, the Red Sea and Geothermal research. There are also files documenting Craig's research on earthquakes and visits to China.

GEOSECS Atlantic Expedition (1972-1973) ; GEOSECS Pacific Expedition (1973-1974) ; INDOMED Expedition (1977-1979); Monsoon Expedition (1960-1961); Pasqua Expedition (1983); Geochemistry

**Harmon Bushnell Craig
Papers, 1952-1997
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1	FORMAT for NSF Proposals, [1983] [Geological Society of America Nomination to Fellowship, 1983-1985] Back and Forth with Dennis Shaw, [1981-1986] Miscellaneous Pages from Proposals, [1989-1991] Marianas: Old Proposals (Ours), [1981-1983] [Proposal to the National Science Foundation, and January 1983 Manuscript to <u>Nature</u> , "Hydrothermal Plumes at a Spreading-Center Volcano in the Mariana Trough Back-Arc Basin," 1983-1985] Alvin-Marianas, [1984-1987] Alvin Dives: Alvin Phase Sep., [1966-1986] Alvin Dives: 21 (degrees) N(orth): 1979 Dives-Maps and Transcripts Alvin Dives: 1979 Dives, 21 (degrees) N(orth) Transcripts with Alps. Cody Prize, [1988-1993] China File-July 1, 1980, #2 Letters and Applications from Chinese, [1982-1988] Committee on Scholarly Communication with P.R. of China, [1981- 1988] CSC-P.R. China also Visa States, [1983-1984] Peoples Republic of China: Tu Kuang-Chin, Guiyang Institution Geochemistry, Dai Tong Mo, [1984-1987] Xu Yongchang & Lanzhou Institution Geology, JT Natural Gas Proposal, [1984-1985]

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1	State Seismological Bureau Beijing Peoples Republic of China, Li & Jiang, [1987-1990]
	Cai Zuhuang and Shi Huixin, [1981-1984]
	Harmon Craig, Tibet/China, 1980, China Proposals, CRC(Chinese Research)-PRC(People's Republic of China)
	China-1976, Chinese File, Tibet #1
	Tibet Paper, [1980]
	Comment Earth and Planetary Science Letters-Basalts, [1986-1987]
	Cosmic Ray Ne ⁺ & He-Maui, Marti and Craig, [1986]
	"Radon Variations Prior to the Haicheng Earthquake," H. Craig, [1976-1977]
	China-1976
	Manuscripts Reviewed by H. Craig, [1991-1996]
	Recent Manuscript Reviews, [1987-1991]
	Various Recent Reviews, Fuex & Baker-Carbon Isotopes-Rocks, [1971-1972]
	Various Recent Reviews, [1975-1987]
	Various Recent Reviews, [1975-1987]
	Sakai: O ¹⁸ Sulfates, [1972]
	Conferences and Seminars, [1967-1976]
	Conferences and Seminars: Iapso Grenoble-General Information, [1973-1975]
	Grenoble 1975 Travel Information
	Geochemistry of the Sea Seminar, [1975-1976]

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1	<p>Conferences and Seminars: “Thermodynamics of Natural Processes,” Section 6, [n.d] “Thermodynamics of Natural Processes,” Section 2, [n.d] “Thermodynamics of Natural Processes,” Section 8, [n.d] “Thermodynamics of Natural Processes,” Section 9, [n.d] Extra Class Notes: H. Craig, “Thermodynamics of Natural Processes,” Sections 6-10, Thermo: Chap. I, orig.,” [n.d] Thermo. 2, Original, [n.d] Thermo. 3, Original, [n.d] Thermo. 4, Original, [n.d] Thermo. 5, Original, [n.d] Thermo. 6, Original, [n.d] Thermo. 7, Original, [n.d] Thermo. 8, Original, [n.d] Thermo. 9, Original, [n.d]</p>
2	<p>C. S. Wong, [1975-1977] Geosecs Summer Institute 1974 1976 Summer Institute Information and Miscellaneous, [1972-1974] Idoe Correspondence, [1974] Personnel (GEOSECS), [1972-1974] Foreign GEOSECS: France, [1972-1973] India (PRL): D. Lal’s Particulates Program, [1974-1978]</p>

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2	Italy (Pisa), [1970-1973]
	Japan (Tokyo,) [1974-1976]
	GEOSECS Data: Geosecs Operation Group Reports, [1971-1975]
	GEOSECS Sample Data, [1975]
	Geosecs Summer Institute Talks, [1975]
	Quarterly Reports: GEOSECS-Quarterly Reports, [1978-1979]
	Quarterly Reports, [1976-1978]
	Geosecs Data Reports-1973
	Requests for Geosecs Data, [1971-1975]
	Requests for Geosecs Samples, [1973-1974]
	Geosecs Operation Group Terminal Costs, [1975]
	Standards, [1973]
	Geosections: August 1972
	October 1972
	January 1973
	December 1973
	Atlantic GEOSECS 1972 Expedition
	GEOSEC Miscellaneous, [1978-1984]
	Pacific GEOSECS 1973 Expedition
	EPSL Geosecs Papers 1979, Geosecs Issue 1972
	GEOSECS Issue 1976
	Arnold E. Bainbridge, Deceased 2/27/79

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2	GEOSECS Issue 1980
	Arnold E. Bainbridge Memorial Fund, [1979]
	U.S.-Israel Binational Science Foundation: "Dead Sea Water Masses," 1977-1978
	U.S.-Israel Binational Science Foundation: "Dead Sea Water Masses," 1977-1978
	Hart and Zindler Glossus and Negatives, May 1990
	[GEOSECS Rough Calculations and Graphs, n.d]
	[Correspondence with Majorie C. Caserio, 1990]
	Isotope Space, etc., [1984]
	King of Tonga and Dave Caress, [1988]
	E. A. G. Meeting: Paris, August-September 1988
	William Rison, [1979-1981]
	M. Applequist, [1974-1980]
	David Hilton Application For Post-Doc; SS#565-87-2423, [1985-1988]
	Manuel Fiadeiro, [1973-1988]
	Kenneth A. Farley, [1985-1991]
	Robert Cutler, [1971]
	Bob Poreda, [1977-1992]
	Yu-Chia Chung, [1972-1995]
	Yu-Chia Chung, [1972-1995]
	Brian Anderson-Underground Student, GISP 2, [1992-1993]

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2	<p>Student Letters, [1979-1991]</p> <p>Andreas Weigel, To Marti, 11/96</p> <p>Yoshio Horibe, [1985-1986]</p> <p>(Ms.) Jine-Yu Hu, Taiwan, [1983-1985]</p> <p>Kyung-Ryul Kim, Seoul National University, [1988-1992]</p> <p>Peter Kroopnick, [1972-1976]</p> <p>John Lupton, [1971-1980]</p> <p>[GEOSECS Correspondence with Dr. Nierenberg, 1979]</p> <p>GEOSECS: 1974 Proposal (Final)</p> <p>John F. Wacker, Visiting Assistant Resident SS# 014-40-4797</p> <p>Indonesia, [n.d]</p> <p>MS#680 Intermediate Scale Morphology 4 Ridge-Ridge Transform Faults...Crane, Gallo, and Fujita, [1983-1984]</p> <p>MS #680 Intermediate Scale Morphology 4 Ridge-Ridge Transform Faults...Crane, Gallo, and Fujita, [1983-1984]</p> <p>Lake Baikal Expedition, 1988</p> <p>Bio-Geo-Chemistry (Big Group), Special Billet, [1989-1991]</p> <p>Geochemistry Search Committee, [1988-1992]</p> <p>Global Change Committee, [1989]</p> <p>IUGG-IAVCEI (International Association of Volcanology and Chemistry of the Earth's Interior) Meeting, Boulder, July 1995</p> <p>Pisa IMA (International Mineralogical Association) Mantle Plumes 4-9 September 1994</p>
3	<p>Africa Papers Saved By Craig, [1972-1991]</p>

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3	Africa Papers Saved By Craig, [1972-1991]
	Red Sea: African Rift Tectonics, [n.d]
	[Helium and Volcanic Gases In Tanzania Research Papers, 1987]
	O'Neil Samples, [1977]
	"Galapagos Chem. Vs. Temperature" [1981]
	Transients: LC (Lerman-Craig) Final, [1953-1973]
	Atlantic-Leg 4, [1972]
	"Societas Internationalis Limnologiae Workshop on African Limnology, Nairobi, Kenya, December 16-23, 1979"
	"New Deviation," [Calculations and Notes, n.d]
	"Current Calculations to Add to Notes, July 1981"
	Graphs and Three-Dimensional Models, [n.d]
	251 Schedules, etc [n.d]
	FPD Notes, [n.d]
	Incongruent Melting Calculations, [n.d]
	Carbon-13, [1967-1968]
	SIO 252, [n.d]
	Scavenging, Negative J. Elements: Trace Element Scavenging In the Deep Sea, [1957-1972]
	SIO-269, [1978-1980]
	"Pacific Metals Company Ltd.," [and Other Notes, 1958]
	IAEA (International Atomic Energy Agency) Studies, [1959-1966]

BOX	FOLDER TITLE
3	D/H (Dymond-Hogan) Spectrometer, [1957]
	D/H (Dymond-Hogan) Data, La Jolla, [1963]
	Yellow Stone Park, [1993-1997]
	Various Craig Notes Put In File By Valerie Craig; unsorted, 1-4-04
	Red Sea Brines, Reprints, [1972-1984]
	Red Sea Geothermal, [1968-1978]
	Cold Fusion, [1978-1989]
	Cold Fusion, [1978-1989]
	[Various Transparencies, 1987]
	Cal Tech Transparencies, 3/89
	Transparencies: Helium ³ , Oceans, [n.d]
	Transparencies Spreading Centers Hydrothermal, [n.d]
	Transparencies: Hot Spots Course, [1973-1975]
	Various Transparencies, [1975-1967]
	Transparencies: Helium ³ Geothermal, [n.d]
	Transparencies, Rare Gases-Basalts, [1982-1983]
	Tibet, [1980]
	“Volcanoes and Hot Springs In Northern Taiwan-Tatun Volcano Group,” [n.d]
	China Papers, [1979-1980]
	Reprints, [1981-1995]
	Indomed 15, Station 6, [1986]

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3	Helium Indomed-15, [1979-1986]
	JTW (John Tuzo Wilson) Pacific: ["A Resume of the Geology of Islands In The Main Ocean Basins: Volume 2 Pacific Ocean," by J. Tuzo Wilson, 1963]
	Reprints, [1971-1979]
	Transient Mixing L-C (Lerman-Craig, 70 Rev.), [1979]
	USGS (United States Geological Survey): Geothermal Prop's, [1976-1979]
	RNC-Model Notes; Mathematical Models, [1974-1980]
	O ¹⁸ -O ² General Calculations; Dissolved O ₂ , [n.d]
	S. R. (Savannah River) Set 1, [1971]
	Savannah River in Folders by H. Craig; SR(Savannah River)-Set 2, [1971-1972]
	Savannah River in Folders by H. Craig: SR(Savannah River)-Set 3, [1971]
	Savannah River in Folder by H. Craig: SR(Savannah River)-Set 4, [1972]
	Savannah River in Folder by H. Craig, D-O ¹⁸ Waters Notes, [1967-1973]
	Geothermal Areas: Miscellaneous, [1978-1980]
	Mid Atlantic Rise: Basalts, etc., [1974-1979]
	Helium, Rare Gases, [Reprints, 1972-1982]
	"Glossy Abyssal Basalts, Atlantic Sea Floor near St. Paul's Rocks: Petrography and Composition of Secondary Clay Minerals," [Melson and Thompson, Reprint, 1973]
	Helium-Rare Gases: Japan, La Roaka, Kanoka, [1978-1980]
	Mass Spectrometer-Correction Factors, Hydrogen Analyses, [n.d]

BOX	FOLDER TITLE
3	Spectrometer Notes, [1965] Delilah Notes, [n.d] Welhan: Thesis Prop., Calculations, [n.d] Proposals Geothermal Gas 1970's: USGS (United States Geological Survey): Geothermal Budgets, [1976-1977] Proposals Geothermal Gas 1970's, [1975-1982]
4	NSF Reviews, [1976-1979] Miscellaneous Notes, [n.d] [Yellow Stone National Park Calculations and Measurements, 1997] Notes: Ru (Ruthenium) and He (Helium) Calculations, [n.d] [Research on Carbonatities, 1967-1978] Kimberlites-Carbonatites, [1973-1975] Ocean Basalts: C ¹³ Data, [1972-1980] C ¹³ : Rocks: General, [1969-1978] Hawaii; Volcanic Gas Samples: Letters, Hoering, Naughton, [1954-1955] Copeton Diamonds, [1977] C ¹³ Diamond Problems, [1953-1969] Gases-Ocean: Our Data and Calculations, [1967] Solubilities: Calculations, [n.d] Dissolved Gases, Ratio Plots, [1968-1972] Rare Gases: Data, conc., Plots, [1968] Diffusion Helium, etc., [1969-1971]

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4	Helium-etc, Seawater Soluble Anomalies, [1970]
	Scan-He ³ , [1967-1970]
	C-W-C: Carrousel Data, [1966-1967]
	Monsoon-Gas Extraction, [n.d]
	["On Nuclear Reactions Occurring In Very Hot Stars, I. The Synthesis of Elements From Carbon to Nickel" by F. Hoyle, 1954]
	Lithosphere, [1952-1989]
	Miscellaneous Heavy Elements, [1948-1957]
	Irons-Data Sheets, [1962-1965]
	African Notes/Papers From Box Put in File, 1-4-04, [1978-1990]
	Djibouti Samples, [n.d]
	ET Notes, co. me (Harmon Craig), [1989-1991]
	21 (degrees) North-Sucphides, [1979-1980]
	21 (degrees) North: Organisms and C ¹³ , C ¹⁴ , N ¹⁵ -Claims,etc., [1979-1981]
	Basalt-Water Interact, EZP, OBS., [Reprint, 1979]
	Pascua Station #2, [1984-1987]
	Pascua Station # 3, [1984]
	Pascua Station #4, [1984]
	Pascua Station #5, [1984-1988]
	Pascua Station #7, [1984]
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4	Pascua Station #9, [1984-1985]
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	Various Calculations, [n.d]
	Pascua Station #12, [1983-1984]
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	Pascua Station # 24, [1984-1987]
	Pascua Station #25, [1987]
	Pascua Papers From File, (unsorted but in original order) Valerie Craig, 1-4-04, [1985-1989]
	Pascua Papers From File, (unsorted, but in original order) Valerie Craig, 1-4-04, [1985-1989]
	[Pascua and Easter Island Reprints and Notes, 1982-1984]
	R/V Washington 1983 Correspondence
	[Proposal to the National Science Foundation: Submarine Geology and Geophysics, 1982-1983]
	Washington-Seabeam, [1966-1982]

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4	Isotopic Vapor Pressures, [Reprints and Other Miscellaneous Notes, 1955-1982] Miscellaneous Notes, [n.d] [“Kinetische Isotopentrennung bei der Verdampfung von Wasser” by Dieter Ehhalt and Karl Knott; also includes other reprints, 1964-1967] Static Flask Data, [n.d] Miscellaneous Graphs, [n.d] Horibe Evap. Experiments, CGH Working File, [1963-1965] (Alpha) Experiments, D-O ¹⁸ , [1954-1966] E ⁺ (O ¹⁸) Data, [1966] Miscellaneous Notes and Calculations, [n.d] Evap. Experiments Data, C-G-H, [1963-1967] Dynamic 25 (degrees) Celsius, [n.d] Dynamic 3.4 (degrees) Celsius, [n.d] [Calculations and Notes and Other Reprints, 1978-1990] BUGS: H ₂ (Helium), S (Sulfur), etc., [1970] GT: D, O ¹⁸ (Oxygen) Plots, Gas Sample Lists, etc., [n.d] Baja Hot Springs-Vidal, [1976-1977] Ru (Ruthenium) Solubility, Rw Program Data, [1942-1970] [“Report On The Reconnaissance Phase of the San Miguel Geothermal Project, Task I,” n.d] Azores: Map, Report, [1977] Azores, [1959-1978]

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4	Gases In Rocks and Fluids Inclusions, Salts, [1988]
	D/H (Dymond-Hogan) Rocks, Gases, [1960-1967]
	Basalts: D-H Data (Dymond-Hogan), [n.d]
	CO ₂ (Carbon Dioxide) Melts, [1977]
	“Excess He ³ in Oceanic Basalts: #129 Evidence For Terrestrial Primordial...” He ³ Basalt Paper, [1974]
	Pascua, [n.d]
	[“Climate/Long Range Investigation Mapping and Predictions (CLIMAP),” n.d]
	[Alvin Notes, n.d]
	[<u>Science</u> , Reprints, 1976]
	Radiocarbon II, [n.d]