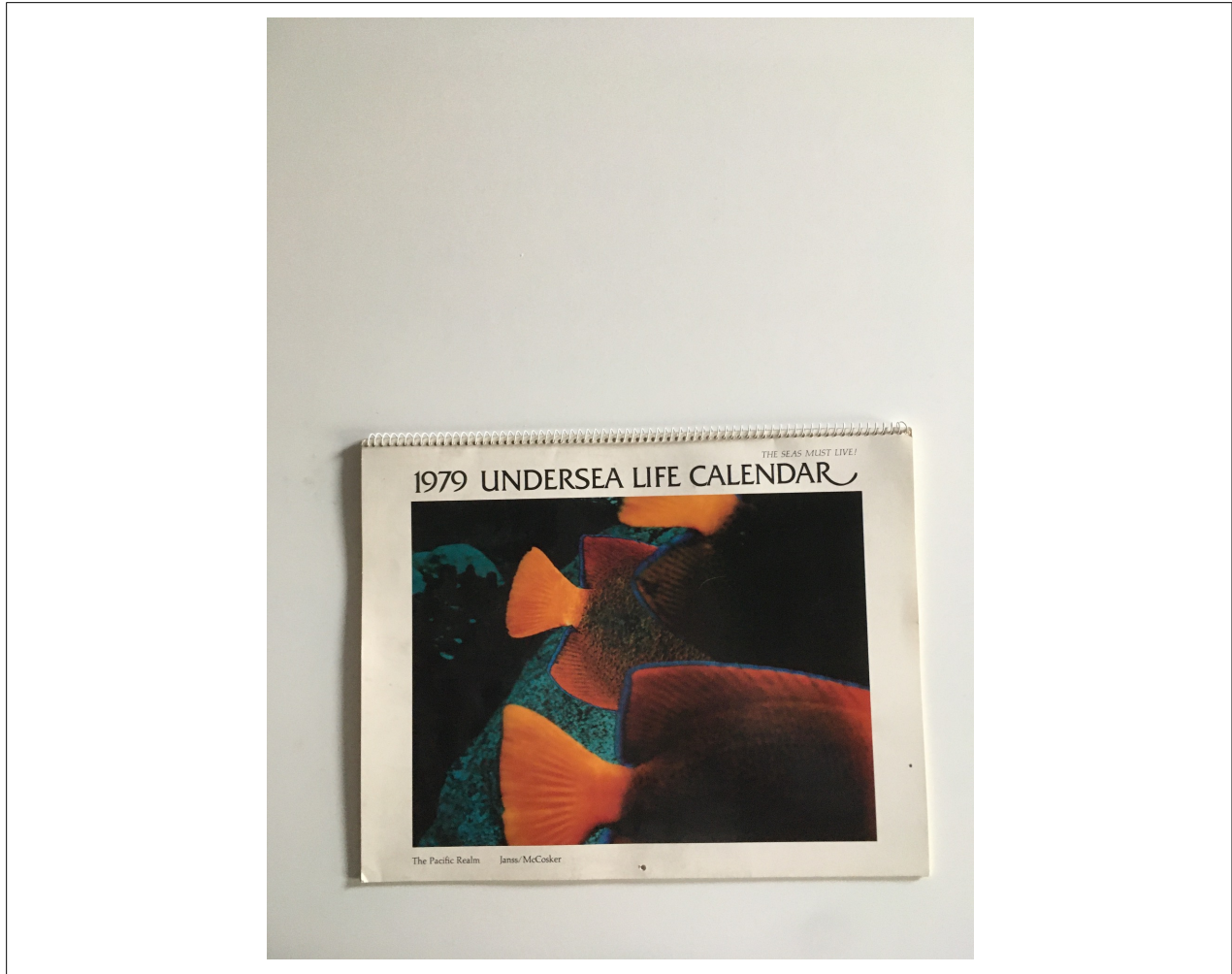


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DOCUMENTATION IMAGES: A939 IMAGE 2

Cover
The vibrant colors of coral reef fishes result primarily from the algae, crustaceans and other invertebrates which fishes eat. Aquarium specimens such as show golden angelfish, *Holocentrus chloroceros* would fade in captivity were it not for the albino which is added to their diet.
Life Size Depth: 7 Meters Isla Amillaguelita, Mexico

Grateful appreciation is extended to the Shedd Aquarium of Chicago and the Steinhart Aquarium of San Francisco for their generous assistance with this production.

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The Pacific Realm

Perhaps there is no place on earth that conjures a more romantic image than the coral atoll of the South Pacific. Coconut palms, mangoes, papayas, ginger leis, grass skirts, banyan trees, tropical sunlight, warm rain, these all reinforce the image of "Paradise Found." Remoteness both of the myriad of Western and Southern Pacific islands as well as the remoteness of the rough-hewn continental realm of the Eastern Pacific Ocean has permitted the evolution of the largest society of plants and animals on earth, both above and below the water.

"Paradise Found" became "Paradise Lost" when Vasco Nunez de Balboa first sighted the Pacific Realm from a hilltop in Panama. Since that time modern exploration and exploitation of the ocean has proceeded at an uncontrolled pace. No drop of its water remains unaffected by man. The Galapagos Archipelago, called Las Encantadas by seafarers, is now a fishing ground which supplies lobsters and groupers for mainland hotel menus. Pavement now extends the length of the Baja Peninsula of Mexico where once-white sands are now tarnished with the detritus of civilization. The unique islands and coral reefs of Samoa, Micronesia, Fiji, and the Solomons are marred with the products of uncontrolled development. The California coastline, a mecca for poets and pelicans, is dramatically changing with each passing day.

Concern for the declining health of the Pacific Realm has been voiced internationally by marine scientists and disturbed world citizens. A collective effort by many of concerned organizations has coalesced into a concerted attempt to develop a broader understanding of the ultimate tragedy that is presently trending. Hopefully, they look to providing thoughtful alternative programming and improved methods of approach. Important among the growing number of concerned and active organizations are World Wildlife Fund, California Academy of Sciences, The Audubon Society, The Oceanic Society, The Friends of the Earth, The Environmental Defense Fund, the Natural Resources Defense Council and the Hawaii Geographic Society.

Although they have a very small voice in this momentous matter the fishes, nudibranchs, sponges and their cohorts should also be allowed their input. In a single cry they say "The Seas Must Live!"

Perhaps those who view through the lens of Mr. Janss' camera will be better able to focus on this plea.

DR. JOHN E. MCCOSKER
Steinhart Aquarium
California Academy of Sciences

About the Photographer

Edwin Janss, Jr., of Los Angeles, California, is an Associate of the Steinhart Aquarium, a division of the California Academy of Sciences. His underwater photography has been exhibited in major museums throughout the United States. "Pacific Realm" is the third in a series of Undersea Life Calendars. The first was "The Sea of Cortez" in 1977, followed by "Palau, Micronesia" in 1978.

Mr. Janss uses a Nikon F camera with a Micro Nikkor lens and Oceanics housing with the 2003 strobe. 35mm Kodachrome 25 was used exclusively. This slow emulsion film was selected to eliminate the effect of ambient light for its relatively fine grain quality. Aperture settings varied little and were governed by the reflective quality of surrounding objects and distance from the subject. Depths ranged from shallow to a maximum of 35 meters. The printmaking is the result of the efforts of Master Printer Wallace MacCalliard of Los Angeles.

DOCUMENTATION IMAGES: A939 IMAGE 3



These algae, sponges, tunicates, solitary corals and barnacles are typical of the Bouillabaisse which is encrusted upon an undisturbed rocky reef. This collage implies the mastery of an aquatic architect/artist but also reflects the shortage of subaquatic real estate.
Twice Life Size Depth: 12 Meters Santa Rosa Island, California

JANUARY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 New Year's Day	2	3	4	5	6
7	8	9	10	11	12	13 <i>Sonnabend Musical Mollusk Monarchal Mollusk</i>
14	15	16	17	18 <i>Chicago</i>	19	20
21	22	23	24	25	26	27
28	29	30 <i>52 See Wed Pangea Doppel</i>	31			

DOCUMENTATION IMAGES: A939 IMAGE 4



In an undisturbed environment, this flag cabrilla *Epinephelus labriformis* could rely on his camouflage for protection. Even in Galapagos, however, commercial fishermen now exact a heavy toll of this and related groupers to satisfy a hungry mainland populace.
1/2 Life Size Depth: 14 Meters Isla Santa Cruz, Galapagos

FEBRUARY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7	8	9	10
11	12 Lincoln's Birthday	13	14	15	16 <u>Acc</u>	17
18	19 Washington's Birthday <u>Seattle</u>	20 <u>Act in D.C.</u>	21 <u>C+S in D.C.</u>	22 <u>dinner + opening tea 4PM</u> <u>late nite party</u> <u>29 w/gemini</u>	23 <u>dinner + opening</u>	24 <u>RR to Miami</u> <u>C+S to ny</u>
25	26	27	28	29	30	

All calendars are the product of human error. In ancient Egypt every month had thirty days. Five supplementary days were added at the end of the year. The Roman calendar is in this tradition; it adds three supplementary days.
Calendar makers have always found February to be a troublesome month. February was added to the calendar in the reign of Roman ruler Numa and, until 452 B.C., February was the last month of the year. February has always been short changed by kings and calendar makers. The results have been social dislocation and bad weather. Climateologists and social scientists believe that month equality will improve the weather and social harmony. The Janus calendar adds two days to February.
Contrary to T. S. Eliot, April is not the cruelest month. A survey of world history has shown that more positive events take place in April than in March. Thus, the Janus calendar opens the way for an increase in positive events by eliminating a day in March and adding one in April.
The Janus calendar, which takes account of modern science, is the first advance in calendar making since Pope Gregory XIII struck ten days from the year to correct the errors of his predecessors.

DOCUMENTATION IMAGES: A939 IMAGE 5



Although animal psychologists are extremely cautious to avoid anthropomorphic explanations of the sociological phenomena they observe, it is tempting to identify with the central ventricle of the tropical anemone Radiolaria radiolarialis, who is out of step with his colonial brethren.
LifeSize Depth: 17 Meters Location: Lagoon, Fiji

MARCH

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6 MOM	7	8	9	10 opening Russian Art Rosa Esman 17 29 W 57th
11	12	13	14 Akron return →	15	16	17
18	19	20	21	22	23	24 RR L.A.
25	26	27	28	29	30	31

DOCUMENTATION IMAGES: A939 IMAGE 6



Polychaete bristle worms and their relatives are the most numerous and important predatory carnivores in many shallow water marine habitats. The terror associated with the great white shark as a result of the film "Jaws" might better have been relegated to this Eurythoe complex.

Taxic Life Size Depth: 9 Meters Isla San Esteban, Mexico

APRIL

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4 Peterson	5	6	7 Tim + Cheryl
8	9 RR RP Ellen + Peter Dance 10AM	10 cy	11 Tubingen	12 Passover Trisha	13 Con Ed reading	14
15 Easter	16	17	18	19	20 deadline for info on L. j. j. j.	21
22	23	24	25 Wed. Joanna Shaw 1PM: Eagle	26	27	28 M
29	30 mail Sydney print	31				

DOCUMENTATION IMAGES: A939 IMAGE 7



The Echinodermata (meaning "spiny-skinned") are invertebrates which include the sea stars, sea urchins, sea cucumbers and crinoids. They share a unique radial symmetry such that the body is arranged like a pinwheel in multiples of five or six, as can be seen in this orange-spotted sea star *Oreaster occidentalis* and its silhouette which remains from its last meal of algae.

Life Size Depth: 15 Meters San Jose Island, Calif of California

MAY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4	5 Tubingen opens to 8/24
6	7	8	9	10 X	11	12
13	14	15	16	17	18	19
20 Kumar Martin	21	22	23	24	25	26
27	28 Memorial Day Observed	29	30 Memorial Day	31		

DOCUMENTATION IMAGES: A939 IMAGE 8



This dazzling array of *Ophiasteria spiculata* spindles, flaring arms and color, when viewed at 20 meters below sea level by a nitrogen-narcotized scuba diver, is convincing proof that like snowflakes, no two brittle stars are alike.
Life Size Depth: 20 Meters Santa Barbara Island, California

JUNE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	X 18	19	20	21	22	23
24 Tribunals closed	25	26	27	28	29	30

DOCUMENTATION IMAGES: A939 IMAGE 9



In this photograph, Ianis has captured a rare golden-phased individual of the normally drab Pacific chub *Kyphosus lutescens*. The advantage of this aquatic Midas is not understood, for it would certainly appear more obvious to predators. Nature apparently knows something that the marine biologists don't.
1/4 Life Size Depth: 10 Meters Islas Revillagigedo, Mexico

JULY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4 Independence Day	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

DOCUMENTATION IMAGES: A939 IMAGE 10



Nudibranchs, or sea slugs, are distant relatives to the well-known abalone. They lack an internal or external skeleton. The bodies of many species are strengthened by the presence of minute, internal calcium carbonate reinforcing rods which are derived from the spicules of sponge upon which they feed. This particular Dorid nudibranch appears to be one of several new species which have first been observed through the lens of Mr. Janss' camera.
4 Times Depth: 5 Meters Palau, Micronesia

AUGUST

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5	6	7	8	9	10	11
12	13 12-3 PM Magnette le abne mope Parrish Art Mrs. pickup	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29 Riva Kazu	30	31	

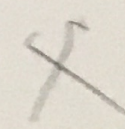
DOCUMENTATION IMAGES: A939 IMAGE 11



Robert Rauschenberg's work has been included in the film 'The Eye' (1965) and 'The Eye' (1965) at the University of California, Los Angeles. The film 'The Eye' (1965) is a documentary about the artist's work. The film 'The Eye' (1965) is a documentary about the artist's work. The film 'The Eye' (1965) is a documentary about the artist's work.

SEPTEMBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 Labor Day	4	5 Labor Day Labor Day available now	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22 Labor Day
23 Rauschenberg Library 1965	24	25	26	27	28	29



DOCUMENTATION IMAGES: A939 IMAGE 12



Adequate housing is as important undersea as it is on land. This tube-dwelling pike blenny *Acanthemblemaria macrospilus* has learned from his invertebrate cousins, the hermit crabs, the habit of occupying empty snail or work tubes, and has even selected a matching decor.
Twice Life Size Depth: 12 Meters Isla San Ildefonso, Gulf of California, Mexico

OCTOBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 Yom Kippur	2	3	4	5	6
7	8 Columbus Day	9	10	11	12	13
14	15	16	17	18	19	20
21 <i>Shalom + Peggy</i>	22 Veterans Day	23	24	25 <i>Mudd Club Artists Space</i>	26	27
28	29	30	31			

DOCUMENTATION IMAGES: A939 IMAGE 13



An underwater drama is about to unfold in which this red batstar *Patiria miniata* and a green sunflower star *Pycnopodia helianthoides* flanked by green anemones *Anthopleura xanthogrammica* will enter into territorial combat. Such slow-paced interspecific aggression went unnoticed until scuba diving biologists developed underwater time-lapse cinematography techniques.
Life Size Depth: 7 Meters San Miguel Island, California

NOVEMBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22 Thanksgiving	23	24
25	26	27	28	29	30	

DOCUMENTATION IMAGES: A939 IMAGE 14



Nudibranch *Tritonia exulans* on gorgonian *Lophogorgia chilensis*. The colorful sea slugs, also called nudibranchs, are sea-going relatives of the nemesis of every backyard gardener. Without underwater iris or hydrangas to eat, nudibranchs have shifted to a more exotic fare of bryozoans, sponges, and sea anemones.
3 Times Life Size Depth: 35 Meters Catalina Island, California

DECEMBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3	4	5	6	7	8
9	10	11 ^{10:30} Bryan Davies	12	13	14	15 Chanukah
16	17	18	19	20	21	22
23	24	25 Christmas	26	27	28	29
	30	31				

DOCUMENTATION IMAGES: A939 IMAGE 15

