Don’t Let The Hurricane Season Catch You Unprepared!

The name of the hurricane game is preparation. Bert I. Smith, JSC Emergency Preparedness Officer said, “Advance planning and pre-
paration will help to save lives and mitigate property damage and should be accomplished by individuals, families, and organiza-
tions. JSC has a Hurricane Plan ready for implementation if required. This plan is developed and managed by the Center Op-
erations Directorate,” Smith said.

When a tropical disturbance is identified which may eventually threaten this area, Smith main-
tains close contact with the Spaceflight Meteorology Group for latest weather informa-
tion and advisories. This information is utilized by Senior Management in deciding when to im-
plement the Hurricane Plan, when to dismiss employees, and when to close the site.

If a hurricane becomes a threat to JSC, the Center’s Hurricane Plan will be implemented and a Command Post will be opened in Building 10. All preparations will be directed from this Command Post, and the senior members of the rideout crew will be located there during a storm. Personnel in the Command Post will main-
tain contact with Senior Management, the Weather Office, and local civilian agencies, and will conduct post-storm damage as-
seessment if required by the senior management.

During imminent hurricane conditions, employees will be able to obtain information on storm status and JSC preparations by dialing 483-6281 for a code-a-phone message relative to hurricane conditions. The onsite closed-circuit TV systems will also transmit a Gulf Coast area map with pertinent information such as hurricane location, wind velocities, rate and direction of movement, estimated time and point of landfall, etc.

Smith says when the threat to this area warrants, the Center will be closed and all personnel except those with predesignated hurricane roles will be allowed to leave.

A plan for release of employees at staggered time intervals has been developed to avoid traffic jams.

It is imperative that supervi-
sors and employees observe as-
signed release time intervals and leave the facility immediately.

Presented annually, the award is in memory of William Lyman Underwood and Dr. Samuel Cate Prescott the industry-university team was the first to establish that bacteria caused food spoil-
age in cans and who subsequen-
tly developed the temperature and time guidelines necessary to de-
stroy the spore-forming organism responsible for the spoilage.

The awards will be presented by NASA on Tuesday, October 1, 1974, at a luncheon in the JSC Student Center. Following the luncheon, a symposium on “Feeding and Nutrition of Man in Space” will be presented by the awardees.

The awardees are foot hi-

dents and the environ-
ent, in-

Construc-

tion

The Mississippi Test Facility, Bay St. Louis, Mississippi, has been renamed the National Space Technology Laboratories (NSTL) and will become a perma-
nent NASA field installation reporting directly to Headquarters in Washington, D.C.

The new status of the facility reflects the increasing importance of the activities at NSTL to current and future programs of NASA and of other agencies taking advantage of the capabilities available at NSTL.

Designed and created by NASA in 1963, Marshall Space Flight Center, the $350 million facility was first established and used for static testing of the large multistage rockets used in the Apollo program.

As the Appollo program drew to a close, NASA and several major agencies involved in a variety of research and technical activities, primarily related to earth re-
sources and the environment, in-
to the modern facilities available at the 141,000 acre site. Present contractor and civil service em-
ployment totals over 1,000.

NSTL has developed into an installation where highly qualified capabilities exist for con-
ducting remote sensing, environ-
mental, and related research and develop-
ments activities,” Dr. Fletcher, NASA Administrator said. “These capabilities have been enhanced in recent years by the location at NSTL of research and technical activities of several other government agencies. The success of this experiment in the co-location of these mutually supporting activities has led me to decide that NSTL will have a profound effect on NASA’s space applications and technology,” he continued.

NASA activities at NSTL in-
clude studies of the before-
the main engine for the new space shuttle, and an Earth Re-
sources Laboratory.
HURRICANE PREPAREDNESS CHECKLIST

KNOWING HOW AND WHEN TO DO WHAT IS THE KEY TO HURRICANE SURVIVAL.

These checklists have been organized to follow the natural sequence of hurricane season preparations. Working through this sequence insures that vital steps are not omitted.

The items in the pre-season checklist are the most easily overlooked hurricane survival plans for most people. They may be the most crucial. These questions must be answered before the hurricane season while there is time for any remedial action that may be indicated.

The other checklists are self-explanatory. They should be worked through systematically and kept available for last minute countdowns. Waiting until the storm is offshore is playing long odds on short time.

BEFORE HURRICANE SEASON BEGINS, YOU SHOULD KNOW:

1. THE ELEVATION OF YOUR HOME ABOVE SEA LEVEL.
   Your local Civil Defense officials can help you obtain information about your elevation. The local Weather Service office can supply floodstage information for local streams and bayous.

2. THE MAXIMUM STORM SURGE HEIGHT WHICH MIGHT OCCUR IN YOUR AREA.
   Your nearest Weather Service office can tell you the highest potential storm surge at each point along the coast and the approximate extent of inland flooding.

3. THE ROUTE YOU WOULD TRAVEL TO SAFETY IF YOU HAVE TO LEAVE.
   Plan your escape route early, and check with local Civil Defense for the low points and flooding history of your route.

4. THE LOCATION OF THE NEAREST OFFICIAL SHELTER.
   Civil Defense or Red Cross can locate the shelter nearest your home and explain what you should bring with you.

5. HOW SAFE YOUR HOME IS.
   If you live near the shoreline please relocate during a hurricane emergency unless you live in a high-rise above the third floor level. If you live in a mobile home always plan to relocate.

WHEN A HURRICANE WATCH IS ISSUED, CHECK SUPPLIES:

TRANSISTOR RADIO WITH FRESH BATTERIES

Your radio will be your only reliable source of information. Have enough batteries to last several days. There may be no electricity.

FLASHLIGHTS, CANDLES OR LAMPS, MATCHES

Store matches in a waterproof container. If you use lanterns or lamps, have sufficient fuel for several days and know how to use safety.

FULL TANK OF GASOLINE

Remember the energy crisis. Never let the tank be less than half-full during the hurricane season; fill up as soon as a hurricane watch is posted. Remember, when there is no electricity gas pumps won’t work.

CANNED GOODS AND NON-PERISHABLE FOODS

Store packaged foods which can be prepared without cooking and need no refrigeration. There may be no electricity or gas for days.

CONTAINERS FOR DRINKING WATER

Move enough containers to store sufficient drinking water for several days. The city supply will probably be interrupted or contaminated.

MATERIALS FOR PROTECTING GLASS OPENINGS

Have suitable shutters or procure stout lumber for protecting large windows and doors; have masking tape available for use on small windows.

WHEN A HURRICANE WARNING IS ISSUED, ACT PROMPTLY

BEGIN A CONTINUOUS COMMUNICATIONS WATCH

Monitor local radio stations and radio broadcasts or VHF continuous weather broadcasts. Keep a log of official hurricane information on your radio and keep it in a visible location. Use the telephone sparingly.

IF YOU LIVE IN A MOBILE HOME

Check your tie-downs and leave immediately for safer refuge.

PREPARE YOUR RESIDENCE AND PROPERTY FOR HIGH WINDS

Secure all outside objects like garbage cans, awnings, garden tools and loose objects. Anchor them securely or bring them indoors.

PROTECT LARGE WINDOWS AND OTHER EXPOSED GLASS

If shutters are not available board up large windows securely. Tape windows which are not beaded or shuttered to reduce shattering. Draw drapes across windows and patio doors to protect against flying glass if shattering does occur.

MOVE SMALL BOATS ON TRAILORS CLOSE TO THE HOUSE

Fill them with water to weight them down. Lash boats securely to trailer and use tie-downs to secure the trailer to the ground or to the house.

MOVE VALUABLES AND PERSONAL PAPERS TO HIGHEST POINTS

It is good insurance for irreparable documents to place them in a high spot, if possible, in a waterproof container.

IF YOU DECIDE TO REMAIN AT HOME

REMAINindoors

Don’t venture out during the lull when the eye arrives. The lull sometimes ends suddenly as winds return from the opposite direction. Winds can increase to 75 mph or more in very few seconds.

STAY AWAY FROM EXPOSED WINDOWS AND GLASS DOORS

Continue away from exposed doors and windows during the hurricane.

STAY ON THE LEeward OR DOWNWIND SIDE OF THE HOUSE

As the wind direction changes, move to another room. If your home has an “inside” room, remain there during the height of the hurricane.

KEEP A CONTINUOUS COMMUNICATIONS WATCH

Keep the radio or television tuned for hurricane information from official sources. Unexpected changes can sometimes call for last minute evacuations or relocations.

KEEP CALM

Your ability to meet emergencies will help others maintain control of their situation.

IF YOU MUST LEAVE HOME DUE TO THE HURRICANE THREAT

FIRST MAKE SURE THERE IS A SAFE REFUGE WITHIN REACH WHICH CAN ACCOMMODATE YOU.

Remember, dangerous winds and tides may arise three to five hours before the hurricane center reaches the coast. Roads may be traffic-jammed and a stranded auto may become a coffin.

DON’T TRAVEL FARTHER THAN NECESSARY

CLOSE AND LOCK ALL WINDOWS AND DOORS.

CARRY ALONG SURVIVAL SUPPLIES

First aid kit

Canned or dried provisions, can opener, spoons, etc.

Bottled water

Medications required regularly.
Surge Tides Greatest Threat To Lives, Land

Storm surge is the greatest killer and generally most destructive part of a hurricane. As the hurricane approaches the coast, its low barometric pressure and winds combine to move a mound of water ahead and to the right of its track.

As the hurricane arrives at the coast, this surge may cause water to pile up 15-20 feet high at the coastline. This mass of water then moves inland across the coastal plain causing flooding and turning debris and other floating objects into battering rams. Carla, in 1961, had a 21 foot surge which extended more than 10 miles inland. Camille, which hit Mississippi in 1969, had a surge of nearly 25 feet. The Galveston seawall is only 17 feet high.

A special form of the surge is especially deadly—as witnessed at Galveston in 1900 when 6000 persons died, and Corpus Christi in 1919 when 300-600 died. Although there is debate in the scientific community over whether or not a true seiche (pronounced “saysh”) did occur, the fast-moving, quickly deepening series of inundations certainly were seiche-like. The seiche occurs when a surge moves across a bay or along a shallow coast in a certain manner. If all the factors are right when the surge reaches land, it suddenly breaks into a series of fast moving wave fronts which constitute the dead-liest aspect of a hurricane.

Defenses against storm surge are few. Seawalls and strongly constructed buildings offer some protection, but are not invincible. The only sure way to avoid a destructive surge is not to build in low-lying coastal areas which might possibly be affected. Unfortunately, this includes most of the Texas coastal zone below the 20 foot elevation line.

Prepare For Hurricane Season—

Our Thanks To...

Information for map captions and the maps themselves are provided by the Texas Coastal and Marine Council. The Council has spent much time warning Texas coastal residents and government agencies of the dangers of hurricanes and providing them with safety information should bad weather strike along the state’s 592 km (370 miles) of Gulf coast. The information which formed the basis for these maps was provided by the U. S. Corps of Engineers and compiled by the Bureau of Economic Geology at the University of Texas, Austin.

Attention!

The July 13 edition of the Roundup will be dedicated to the anniversary of Apollo 11. The Swap-Shop will not appear in this particular issue. The printing of ads will resume in the August 2 issue.

Roundup is an official publication of the National Aeronautics and Space Administration Lyndon B. Johnson Space Center, Houston, Texas, and published every other Friday by the Public Affairs Office for JSC employees.

Editor: Janet Wreather Photographer: A. "Pat" Patneaky
Most people enroll in karate classes for protection, fun, or just the curiosity of the art.

Howard Renfro’s reasons were no different. However, since he returned to the children last year he has learned that there is more to karate than just physical action. “I especially benefit from the concentration and the discipline karate requires,” Howard said. “I tend to think more deeply about why things are done in my life since I am focusing on things from a surface appearance.”

Howard is employed in the Operations Analysis Branch of the Space Shuttle Resources and Schedules Integration Office. His responsibilities include cost modification and evaluation of Shuttle program requirements.

It’s Travel Time!

Final plans have been made for the S/C Travel Club trip to Mexico City. The tour will depart Houston August 1 and will return August 9.

Cost per person is $182.50 for single occupancy, $145 for double and $137.50 for triple. The price is for all meals and transportation on the trip.

Parties include round-trip bus transportation between JSC and Houston International Airport, round-trip air fare, hotel accommodations, and taxes. In addition, the group will visit hotels and airport and a half-day tour of Mexico City. Full payment is due July 15.

The tour will be shown July 16 of Mexico City. Contact Hal Parker, X-6321 for more information.

ROUNDUP Swap-Shop

Swap Shop advertising is available to JSC and on-site contractor personnel. Articles or services must be advertised, without regard to race, religion, sex or national origin. Ads should be 10 words or less, containing name, address, phone number, and office code must accompany, but need not be included in ad copy. Typed or printed copy must be received by AP3, Room C, Thursday before publication.

Mary Nordin Gets Honors

Mary Nordin, Principal Investigator Management Office (PMO), Earth Observations Division, was selected as Outstanding Senior Cost Analyst for June.

Mary was responsible for organizing clerical operations when the PMO was established in support of the Skysat Earth Resources Experiment Package. Part of this effort included compiling files and correspondence for PMO functions previously assigned to the Science Mission Support Division and the EREP Principal Investigation Ad Hoc Group.

Other assignments included preparation of Principal Investigator Requirement Documents (IRD’s); scheduling clerical support to complete the Statements of Work (SOW) submitted by each Principal Investigator; managing a current and accurate PI mailing list.

“Mary coordinated in an exceptional manner the voluminous correspondence generated by the PMO teams.

TABLE TENNIS WINNERS—The winners of the Semi-Annual Open Table Tennis Tournament at the Gilruth Center are shown receiving their trophies from club president, Stephen Jacobs, right. From left to right are Richard Russell, first place, and Danny Feagly, second place. Not pictured is third place winner, Lee Norman.

Don’t Miss World Team Tennis Matches

World Team Tennis is the most recent and exciting sport to be seen in Houston. It is the first major league sport involving men and women playing together and against each other, and boasts over 100 of The World’s best tennis professionals.

Sixteen cities stretching from Miami to Toronto and Hawaii have entered teams and each team plays 4 matches in the season, from May to August—22 at home and 22 away.

The Houston entry is a team called the “EZ Riders,” headed by John Newcombe, World Professional Champion and three-time Wimbledon Men’s Singles Champion, and supported by Dick Stockton, Karen Kneuer, Helen Godlove, and husband and wife teams Bill and Lesley Bowery, and Peter and Cynthia Doerner.

Teams competing against the EZ Riders include such tennis stars as Billie Jean King, Roy Emerson, Evonne Goolagong, Tony Roche and Rosie Casals.

Lobsters, July 29, Baltimore Bumbers, July 10, Florida Flamings, August 1, New York Sets; August 2, Toronto Royals; August 3, Minnesota Backspin; August 4, Los Angeles Titans; August 18, Florida Flamings.

Playoffs are August 10-12.

Table stock in America.
Buy U.S. Savings Bonds.