



# THE COMMUNICATOR

Newsletter of the TAMAMI AMATEUR RADIO CLUB

Incorporated 30 November 1984 - Venice, Florida



-- SEPTEMBER 2004 --

## -- PRESIDENT'S MESSAGE --

*(Hurricane Charley blew into our area on Friday, 13 August 2004. While the area where virtually all our TARC members reside was spared the devastation of that Category 4 storm, many of our permanent resident members heeded the call to assist as best they could. In lieu of a President's Message, the following presents an overview of Ham Radio assistance following Charley and the first-hand experiences of TARC members who participated in those efforts.)*

When Hurricane Charley made landfall on Captiva Island at 3:45 PM, 13 August 2004, it altered the lives and life styles of thousands of Floridians. As it entered Charlotte Harbor and tracked NNE, Punta Gorda and Port Charlotte were devastated, with mobile homes wiped away and century-old buildings destroyed. Moving inland on a NE track, the storm hit Arcadia—a community where numerous Gulf Coast residents had sought shelter. Hardee, Highlands and Polk counties were wrought by the 125 mph winds which did not diminish in intensity after leaving the warm Gulf waters. While loss of life is always mourned, Charley was not a widespread “killer,” however, property losses are in the billions of dollars. All of the hardest hit counties lie within the ARRL West Central Florida Section, and the hams in the section who had been trained in ARES or RACES drills took to the field.

Dave Armbrust-AE4MR, et al -“The only reliable communication we have here is Amateur Radio,” reported WCF Section Manager Armbrust to the ARRL HQ. One of the three dozen ARES volunteers at the Charlotte County command post located off I-75 near Exit 170, on 25 August Armbrust said, “We’re out in the field trying to handle so many different things that it’s almost overwhelming.”

Hams from areas outside the swath of destruction soon began arriving in Sarasota and Charlotte Counties. Brevard County hams arrived with a complete mobile communications unit, and ARES teams from Miami-Dade, Martin, St. Lucie, Broward, and Okeechobee counties, as well as from Jacksonville, Georgia and Tennessee arrived for assignment to relieve or assist the Amateur operators on duty in the affected communities. By 20 August, the need for additional ARES volunteers had stabilized. These hams were active handling emergency traffic, outgoing health-and-welfare traffic from storm victims taking refuge in the various shelters, providing public safety communication emergency traffic, and assisting the Federal Emergency Management Agency in setting up HF communication to the state emergency operations center in Tallahassee.

Jim Frey-W8ISZ, who’s also President of the Sarasota Emergency Radio Club (SERC), was alerted on Thursday, 12 August. The Sarasota EMA was tracking Charley as it entered the Gulf of Mexico, and ordered the opening of three 1<sup>st</sup> Tier shelters in the north, central and southern areas of Sarasota County for potential evacuees from barrier islands and mobile home parks. Jim and Bob Officer (*see later comments*) began jockeying for ham operators, as there should be one ham in each shelter. Eight Search & Rescue teams were deployed in the county, and a ham should accompany each of these teams. However, only six hams were available.

The SERC is closely affiliated with the Sarasota County government, which owns the emergency ham radio equipment used by SERC, such as the two communications trailers with attached crank-up towers. As Charley wiped out power lines, landline telephones, numerous cellular phone towers, and the Charlotte County Emergency Operations Command (EOC) office, Amateur Radio became the only reliable means of communications. One of the Sarasota County/SERC mobile communications units was dispatched to the staging area in Port Charlotte. Three different repeaters, that were unaffected by the storm, were then used to relay information and directions to emergency personnel in Punta Gorda and Port Charlotte.

Starting on Saturday 14 August, the Sarasota EOC communications were handled by Jim-W8ISZ, Ron Wetjen-WD4AHZ and Al Alviani-N4LML between the Sarasota and the Charlotte County EOCs. Their efforts continued until 19 August, when basic, conventional communication was reestablished in Charlotte County.

Pete Knorr-N2IZD spent the better part of the week following Charley’s passing at the Charlotte County EOC communications unit at the staging area, in the midst of some 800-1000 emergency vehicles. With three repeaters in action, the traffic was quite hectic at times. Pete was  
see CHARLEY, page 5

## -- SEPTEMBER MEETING --

The September TARC meeting will be at 7:00 PM (**NOTE the return to our former meeting time!!!**) 09 September 2004 in the Community Room of The Gulf Coast Community Foundation of Venice, 601 South Tamiami Trail (Business US 41), across from Bon Secours Hospital. Following the business meeting, a video of the 2000 A52A Bhutan Dxpedition will be shown. This video gives good insight of Bhutan’s culture, so try to get out and see it.

## TAMIAMI AMATEUR RADIO CLUB

### Minutes of the Meeting

19 August 2004

Vice President Peter Knorr-N2IZD called the meeting to order at 6:00 PM and Bill Rockwood-KE4ZAK led the pledge of allegiance to the US flag. Tony Pullara-KD4PYM of Tampa was welcomed as a visitor. TARC member Diana Gregory-KI4GRF was given a round of applause in recognition of her passing Elements 1 and 2 and earning her Tech w/HF license.

**MINUTES** - Pete Pesa-N4RD moved to forego reading of the minutes of the 08 July meeting which were published in the August issue of *The Communicator*, seconded by John Miller-WA9YHW, and passed.

**CORRESPONDENCE** - Secretary Jack Sproat-W4JS reported he had several telephone communications with the staff at the Gulf Coast Community Foundation of Venice regarding returning our meeting time to the original schedule of 8 PM to 9 PM. As our meeting time had been changed to avoid conflict with the housekeeping contractor, and that contractor does not work there on Thursday nights, it was requested that we could return to our old hours. When the Foundation learned that the earlier schedule has negatively affected our attendance, consent was given to this request. Beginning in September, our meetings will again be held from 7 PM to 9 PM.

**TREASURER'S REPORT** - Treasurer Bob Officer-WA6WAY reported that the \$501.33 invoice for our TARC call sign badges had been paid. The 30 July account balance was \$3,478.02. With one outstanding check in the amount of \$45.86 for printing and postage, and with \$46.50 cash on hand, the 19 August account balance is \$3,478.66.

### COMMITTEE REPORTS

**SUNSHINE** - Bill Rockwood-KE4ZAK reported sending a sympathy card to the family of deceased TARC member Ken Truran-KC8BI, and get well cards to Pete Pesa-N4RD following his heart attack, and to Don Dold-KD9SJ following his fracturing his right hand and wrist. Pete-N4RD reported that Emily Horowitz-W4MHH was undergoing treatment in Bon Secours Hospital due to low blood pressure.

**VE TESTING** - Jack-W4JS commented on last Saturday's TARC VE session being held in the Venice Library parking lot, as the library was closed, and that a VE session is scheduled for this Saturday in Englewood.

**REPEATER/TECHNICAL** - Pete-N2IZD reported that the EchoLink facility has been disabled as it was causing interference to the emergency traffic being passed on our repeater. Pete added that clarification is needed regarding the codes that can disable or activate the EchoLink facility. In response to the query of Pete-N4RD about our freedom of access to our repeater, Jim Frey-W8ISZ stated that a telephone call will give us ready access, however, the need for improvement will be

addressed.

**NET OPERATIONS** - Net Manager Bob Murphy-WA1UHG commented that the two weekly nets are being rather well attended, however, he could use at least one more net control operator in addition to the present seven operators. Pete-N2IZD moved that a 2-meter net be held in the event our meeting is canceled, as happened last week; seconded by Bob Retter-KD4SOJ and passed. The net would convene on the repeater, if the repeater is not being used for emergency communications, at which time the 146.58 simplex net frequency would be used.

**CLUB GRANTS AND DONATIONS** - Bob-WA6WAY reported that progress to transfer the decommissioned Red Cross communications trailer to the TARC were shelved due to Hurricane Charley taking precedence. Pete-N2IZD commented that the amateurs in Brevard County had obtained two \$10,000 grants for communications vans and suggested we try to learn how they did it. Bob-WA6WAY responded that he presently has help available from a person who has been very successful in obtaining public service grants, and they will be pursuing such financial assistance for our potential communications trailer.

**LIAISON TO SERC/ARES** - Jim-W8ISZ thanked all TARC members who volunteered to help in the aftermath of Hurricane Charley.

**LIAISON TO RED CROSS** - Bob-WA6WAY stated that he had just gotten the Red Cross repeater functioning properly the day before Hurricane Charley swept into SW Florida. The Red Cross had been working closely with the Sarasota County EOC, and over into DeSoto County.

**LIAISON TO FGCARC** - Charlie Larson-KD4FZ offered some background on the Florida Gulf Coast Amateur Radio Council, which is the sponsoring body for the annual Tampa Bay Hamfest held up in Palmetto. For personal reasons, Charlie cannot continue representing the TARC, and a volunteer is needed to attend at least two meetings a year in order for the TARC to remain an active member. There was no show of hands for a potential volunteer.

**LIAISON TO QCWA** - Jack-W4JS reported that 12 members and friends of Suncoast Chapter 53 attended the 04 August informal lunch at the Panda Pavilion in Venice.

**OLD BUSINESS** - No action has yet been taken regarding monthly participation in the WENG amateur radio program.

**NEW BUSINESS** - Bob-WA6WAY described how TARC member Joe Glickauf-W9WDN had donated his complete HF station to the TARC, to be utilized as we saw fit. Bill-KE4ZAK moved, seconded by Pete-N4RD, that we keep this equipment for use in our potential communications trailer. Motion passed.

**ADJOURNMENT** - The meeting was adjourned at 6:48 PM. There were 16 members and two visitors present.

see MINUTES, page 5

# CURRENT/PENDING DX ACTIVITY AND PROPAGATION FORECASTS

CURRENT and/or SCHEDULED DX ACTIVITY										
COUNTRY - CALL SIGN	ACTIVITY PERIOD	BEARING	HF BANDS and BEST OPENING TIMES (GMT)							
			80	40	30	20	17	15	12	10
Maldives - 8Q7GA, 8Q7JF	Now to 07 September	41	00-01	<b>23-02</b>	22-02	19-00	19-23	17-20	17-19	NO
Faroe Is - OY/DLIRTL & DL2RMC	Now to 10 September	32	<b>00-07</b>	22-09	19-20	12-21	17-21	NO	NO	NO
Isle of Man - GB4IOM, GB4SPT	01 - 08 September	41	<b>23-07</b>	22-10	20-01	12-23	15-20	15-18	NO	NO
Lesotho - 7P8RN	03 - 12 September	110	<b>00-04</b>	23-05	22-06	00-04	NO	15-16	NO	NO
Malawi - 7Q7CE	09 - 23 September	90	<b>23-04</b>	22-05	21-06	<b>18-02</b>	17-22	14-19	17-18	NO
St. Pierre & Miquelon - FP/NN9K	10 - 18 September	39	<b>23-11</b>	00-24	11-03	12-00	17-18	16-17	NO	NO
New Caledonia - FK/JA Operators	16 - 19 September	258	<b>07-11</b>	06-12	05-13	01-04	13-15	20-23	00-01	21-22
Seychelles - S79RJ, S79SO	03 - 20 October	68	<b>23-02</b>	22-03	21-04	17-00	17-21	15-19	16-18	17-18
Cameroon - TJ????	06 - 20 October	83	<b>23-05</b>	21-06	20-07	12-00	<b>13-22</b>	13-20	18-20	17-18
Lord Howe Is - VK9L	09 - 23 October	249	<b>07-12</b>	06-12	06-13	03-13	0300	00-01	NO	NO
West Kiribati - T30KU	09 - 18 October	277	<b>06-12</b>	05-13	04-14	12-15	22-00	19-23	19-21	20-21

Updated 25 August 2004, based on 25 August 2004 *QRZ DX* and 23 August 2004 *The Weekly DX*.

Notes: ??? = Call sign not yet known, ++ = Phone Only, \*\* = CW Only, NO = No opening forecast, Time in bold = Best Band(s) for opening  
Long path bearings and opening times (if any) are underlined. All forecasts calculated via *W6ELProp V.1.03* propagation software,  
<http://www.qsl.net/w6elprop/> by Sheldon C. Shallon-W6EL, with Solar Flux and K-index varied in accordance with NOAA 27-day forecast.

## - SOLAR ACTIVITY DURING AUGUST -

During the first 29 days of August, the Solar Flux ranged from 83 up to 149, with a mean value of 111.5 (vs. 122.1 for August 2003 and 184.0 for August 2002). The A-index was  $\leq 10$  on 19 days during that period.

## - SEPTEMBER PROPAGATION -

During September, solar activity is expected to range from very low to moderate levels. The Solar Flux should range from a high of 105-120 from 02-15 September, due to the return of Sunspot Region 656, dropping to 85 by the end of the month. The geomagnetic field is expected to range from quiet to unsettled during most of the month. (From *NOAA Weekly Highlights and Forecasts, 24 August 2004* and *NOAA 27-Day Space Weather Outlook Table, 24 August 2004*)

Propagation on 10 through 20 meters will be quite variable during September, with some days exhibiting summertime conditions and others being like those experienced during the winter. On days of High Normal or better conditions, 10 meters could open up to Europe, the South Pacific and Asia. However, as we are well into the decline of Cycle 23, these openings will be more rare than in the last few years. The 12-meter band will act very similar to 10 meters.

Both 15 and 17 meters will open shortly after sunrise and remain open until after sundown. Openings will follow the sun, from northeast to east and southeast, moving into the South Pacific in the late afternoon.

The 20-meter band will be the best daytime DX band during September, opening at sunrise and remaining open in all directions for a few hours. Many areas will be open during the daytime, with peak conditions in the afternoon.

Nighttime DX conditions will improve on 30 through 160 meters due to shorter daylight hours and decreased static.

Conditions should be *Above Normal* 1-2, 9-17, and 24-29 September; and *High Normal* 3-5, 7-8, 18, 20-23, and 30 September. (From "Propagation", Tomas Hood-NW7US, September 2004 *CQ*)

## - AVES ISLAND DXPEDITION -

The Aves Island Dxpedition, YV0D, arrived on the island several days later than originally scheduled and had to depart early due to forecast degraded weather. (*Remember Hurricane Charley?*) As such, the team could only operate a total of 56 hours. However, during that limited time, they racked up 18,449 QSOs with 8,870 stations—which is a QSO rate of about 330 QSOs per hour. The continental breakdown was 50% North America, 40% Europe, 5.3% South America, 2.8% Asia, 1% Africa, and 0.8% Oceania.

(From *The Weekly DX, Vol. 4, No. 33*)

## - SOMALIA OPERATIONS -

Effective immediately, QSLs for operations in the Somaliland and Puntland autonomous areas, as well as the southern and central areas of Somalia, are acceptable for DXCC. Operations possessing written permission from any recognized authority that is acknowledged to be in control of a particular region will be accredited, and will count for the Somalia Democratic Republic. QSLs from past operations will be accepted where proper documentation has been submitted. The change in ~~DXCC~~ policy was made as there is no central government in Somalia. (*Boy, are they lucky!!*)

Examples of past operations such as 6O0X (1999 and 2002) and 6O1Z (1999) from Somaliland would count for DXCC credit. In Puntland, Sam Voron-VK2BVS has been operating over the past several months, and he is apparently the official licensing administrator for that province. A query has been made regarding a future operation from Puntland.

(From *The Weekly DX, Vol. 4, No. 33*)

## - CALL SIGN STATUS -

As of 25 August 2004, call signs issued sequentially in the Fourth District were up to:

Extra  
AI4GS

General/Technician  
KI4GUN

(From Vanity HQ Web site)

## CONTESTS & ACTIVITIES

Contest/Special Event	Times/Dates	Bands/Modes	QSO With	Exchange
Russian RTTY WW Contest	0000 GMT 04 Sept 2400 GMT 04 Sept	80 - 10 Meters RTTY Only	Anyone, Anywhere	R/S/T + CQ Zone
All-Asian DX Contest	0000 GMT 04 Sept 2359 GMT 05 Sept	160 - 10 Meters Phone Only	Asian Countries Only	R/S + Operator's Age (YIs give "00")
IARU Region 1 Field Day	1300 GMT 04 Sept 1300 GMT 05 Sept	160 - 10 Meters Phone Only	European Entities Only	R/S + Serial Number
North American Sprint	0000 GMT 12 Sept 0400 GMT 12 Sept	80 - 20 Meters CW Only	US States, Canadian Provinces and North American Countries	Both Calls, Serial #, Name, State
Second-Class Operators Club Marathon Sprint	1800 GMT 11 Sept 2400 GMT 11 Sept	160 - 10 Meters CW Only	Anyone, Anywhere	R/S/T + State
WAE DX Contest	0000 GMT 11 Sept 2359 GMT 12 Sept	80 - 10 Meters Phone Only	European Entities Only	R/S + Serial Number
North American Sprint	0000 GMT 19 Sept 0400 GMT 19 Sept	80 - 20 Meters Phone Only	US States, Canadian Provinces and North American Countries	Both Calls, Serial #, Name, State
Scandinavian Activity Contest	1200 GMT 18 Sept 1200 GMT 19 Sept	80 - 10 Meters CW Only	Anyone, Anywhere	R/S/T + Serial Number
Mediterranean Islands Contest	1200 GMT 18 Sept 1200 GMT 19 Sept	80 - 10 Meters Phone and CW	Stations on Mediterranean Islands	R/S(T) + Serial Number
QCWA Fall QSO Party	1800 GMT 18 Sept 1800 GMT 19 Sept	160 - 2 Meters Phone/CW/Digital	Members of the QCWA	Year Licensed (nn), Chapter # or State
CQ Worldwide RTTY DX Contest	0000 GMT 25 Sept 2400 GMT 26 Sept	80 - 10 Meters RTTY Only	Anyone, Anywhere	R/S/T, CQ Zone, State/Province
Scandinavian Activity Contest	1200 GMT 25 Sept 1200 GMT 26 Sept	80 - 10 Meters Phone Only	Anyone, Anywhere	R/S + Serial Number

From September 2004 *Worldradio* and September 2004 *QST*.

### -TARC NET SCHEDULE -

The following schedule is provided by the TARC Net Manager, Bob Murphy-WA1UHG:

02 Sept (r) Peter - N2IZD  
 07 Sept (s) Bob - WA6WAY  
 09 Sept Meeting - no net  
 14 Sept (s) Marty - W4MHH  
 16 Sept (r) Bob - WA1UHG  
 21 Sept (s) Peter - N2IZD  
 23 Sept (r) Jack - W4JS  
 28 Sept (s) Jim - W8ISZ  
 30 Sept (r) Bob - WA1UHG  
 05 Oct (s) Jack - W4JS  
 07 Oct (r) Charlie - KD4FZ  
 12 Oct (s) Bob - WA6WAY  
 14 Oct Meeting - no net  
 19 Oct (s) Jim - W8ISZ  
 21 Oct (r) Peter - N2IZD  
 26 Oct (s) Marty - W4MHH  
 28 Oct (r) Bob - WA1UHG

(r) = 145.130 Repeater; (s) = 146.58 Simplex

Show your support of the TARC by checking into the Tuesday and Thursday night nets—both at 7:30 PM.

—000—

### - RAC PROPOSES DROPPING MORSE -

Radio Amateurs of Canada (RAC) has formally proposed that Industry Canada (IC) eliminate Morse code as a ham radio testing requirement for operation on bands below 30 MHz in Canada. RAC also wants IC to require applicants for the Basic exam to score at least 80 percent before permitting operation below 30 MHz.

Under the proposal, present Basic plus Morse licensees would be considered as holders of the new Intermediate qualification. Current Basic licensees without Morse could retain status quo, or could retake the Basic exam, score 80% or better, and be upgraded to Intermediate.

RAC also recommends that the passing grade for the Basic and Advanced exams be raised from 60 to 70% when Morse is dropped. RAC President Daniel Lamoureux-VE2KA says Canadian hams can anticipate implementation of the first phase of the recommendations by year's end.

(From *The ARRL Letter*, Vol. 23, No. 32)

### - W9INN, SK -

Bill Fanckboner-W9INN, the proprietor of W9INN Antennas, died 30 July at age 80. His hand-built custom dipole antennas were of excellent quality, for which he enjoyed a good reputation. (From *The ARRL Letter*, *ibid*)

### CHARLEY, from page 1

thankful that the TARC repeater had been relocated, such that 2-meter traffic between the two counties was passed with good signals both ways.

Bob Officer-WA6WAY had just gotten the Red Cross repeater up and running the day before Charley arrived. Sarasota Red Cross, which is responsible for both Sarasota and DeSoto counties, requested 3-5 ham operators from the County EOC, however, none were available. Bob then reverted to use of the SERC call up list for assistance. The Robarts Arena was utilized as a shelter for displaced people having special needs and for refugees from DeSoto County. Somehow, requests for assistance, such as the need for food and adult diapers for 500 people from a trailer park, were met.

Tony Pullara-KD4PYM, who's responsible for emergency communications in three counties in the Tampa area, acknowledged that he was also short handed in operators. Tony passed along his gratitude to the local volunteers, and thought they all did a great job.

Pete Pesa-N4RD commented that he had volunteered at the shelter set up at L. A. Ainger Middle School in Rotonda. Pete worked his way through the displaced people, offering to call their relatives or friends to advise them of the situation. This experience showed Pete how important it is that we carry good contact info with us. In one case, a lady had a phone number printed on a card and Pete called up to Georgia. Her grand kids arrived to pick her up before the shelter's "lights out" at 10 PM that night. However, another lady could offer, from memory, only phone numbers that were incorrect and she was still in the shelter that night. Pete had a letter published in the Herald-Tribune, telling of this experience and advising everyone to keep a card in their possession, with addresses and phone numbers of family members and associates.

Salvation Army - The "Big Stick" repeater was used extensively to assist the Salvation Army with their Canteen and Relief operations throughout the affect areas. The Salvation Army Team Emergency Radio Network (SATERN) on 14.265 MHz spent nearly five days in continuous operation. SATERN made use of Amateur Radio for its logistical communications. "Big Stick" was also utilized to broadcast weather advisories from WX4TBW, the Amateur Radio station at the National Weather Service in Ruskin.

Following the meeting comments above of our TARC volunteers, further discussion centered on several topics. It is obvious that more ARES volunteers are needed. Approximately 50 percent of our TARC members are Snowbirds. Furthermore, many of our permanent resident members are inactive or have no radio equipment. As such, the pool of potential TARC volunteers is limited. However, we are gaining several younger members who have indicated the interest and desire to get involved. The effects of Hurricane Charley are indelible in everyone's memory—even if we did not see the devastation first hand. Those vivid

images of destruction will undoubtedly serve as a wake up call to all of us, such that the adrenalin is flowing and the willingness to serve will follow close behind. Try to be a part of it if you can.

(From remarks at 19 August TARC meeting, *The ARRL Letter*, Vol. 23, No. 33, and e-mail from Paul Toth-NA4AR)

### - QCWA CONVENTION CALL SIGN -

The Quarter Century Wireless Association will have its International Convention 15-17 October in Ottawa, Ontario, Canada, sponsored by National Capital Chapter 70. In recognition of this event, Industry Canada has authorized the chapter to use the call sign VE3QCWA from 17 September to 17 October. QSLs for VE3QCWA go to VE3IQ. (From *The ARRL Letter*, Vol. 23, No. 34)

### - ARRL ON-LINE SURVEY -

(A number of good questions have been raised over the past weeks on this site. Here's some of the better ones.)

On 02 July, the survey asked "Do you listen to *ARRL Audio News*?" Looks like this ARRL effort isn't doing well, as, of the 2188 respondents, 442 never heard of it and 1261 do not bother listening. The 485 that have heard of it get it either via the Internet, their local repeater or by telephone.

On 09 July, the query was "How do you send CW?" Of the total of 6213 respondents, 2971 (47.8%) do not operate CW at all. (Bet that shocked the "CW Forever" types at HQ!) Of those who use the mode, 1111 use paddles and a keyer, followed by 729 who use a straight key. A bug is used by 281, a keyboard by 208, and 913 claim to use one or more of the above.

The response to the 06 August query regarding QSLing indicate that is courtesy is fading. Of the 2209 who replied to the query, "How many QSL cards do you send in a year?" 22.1% admitted that they never QSL. Most, 31.2%, send from 10-100 QSLs a year, followed by 22.3% who send 101-1000 a year, while 4.2% send more than 1000 cards a year. Even though they count for nothing, 2.7% QSL 100 percent electronically.

### MINUTES, from page 2

**PROGRAM** - TARC members who had assisted with emergency communications following Hurricane Charley told of their personal experiences.

Jack Sproat-W4JS, Secretary

### - MEETING REMINDER -

Just a Final Reminder that the 09 September TARC Meeting will begin at **7:00 PM** in the Community Room of The Gulf Coast Community Foundation of Venice. Hopefully those who had conflicts with the earlier meeting time will be able to once again attend our meetings.

*"The natural progress of things is for government to gain ground and liberty to yield."* - Thomas Jefferson

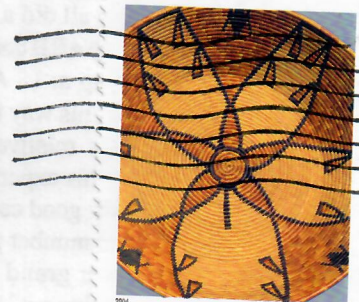
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