

SCCCORE

MAY/JUNE 86

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Southern California Contest Club Operations, Results, and Enlightments.
SCCCORE is the official bi-monthly bulletin of the Southern California Contest Club. Membership is \$3.50 per year, Payable to Ski Brozowsky, N6ADI.

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SCCC assumes no responsibility for anything said, implied or printed as the
SCCCORE is filled with opinions, conjecture and hearsay!

NOTICE: SEE BACK PAGE FOR MEETING TIME AND LOCATION. THERE IS ALSO
A MAP INCLUDED FOR YOUR CONVIENANCE!

SUMMER CONTESTS

MAY 24-25 CQ WW WPX CW
JUN 7-8 ARRL VHF QSO PARTY
JUN 14-15 ALL ASIAN PHONE
JUN 28-29 ARRL FIELD DAY
JUL 5-6 VENEZUELAN SSB
JUL 12-13 IARU RADIO SPORT
JUL 19-20 CQ VHF WPX
AUG 9-10 EUROPEAN CW CONTEST
SEP 13-14 EUROPEAN PHONE
OCT 4-5 CAL QSO PARTY
OCT 25-26 CQ WW DX PHONE
NOV 29-30 CQ WW DX CW

For further details on any of these contests consult your Issue of
CQ Magazine or QST for rules times etc.....

NCCC JOINS CQP WAR

In the most recent issue of "THE JUC", the NCCC, bless their hearts are also taking action to establish the CQP (Cal. QSO PARTY) firmly on the weekend that it normally would be held. Our own Dennis, NE6I, has been taking on similar chores on behalf of SCCC and himself. The NCCC has a brilliant idea for spreading the word around. Making use of all that postage getting QSL cards back and forth, they are putting in flyers and notices about the CQP and when it will be held this year. If you are a heavy QSL'er and agree that competition for the CQP weekend should not go unanswered then type up a page of advertising (small little slips of paper will do) and stuff them into your outgoing QSL's. This will get the word out and make the CQP bigger than it already is (the BIGGEST STATE QSO PARTY).

SCCC NEEDS YOU!

The Club needs material for the SCCCORE. N6ADI will accept whatever you have to contribute, lets give him a break. He has been plugging away at it for about 3 years now and would like some of the members to submit articles. These articles can cover a wide range of topics, example: station run-downs, secrets to your success as a contester, equipment modifications or editorials. This is also an opportunity to let others know of your excess equipment or equipment needs, just write them down on a piece of paper and send them in. If you have a typewriter or word processor it isn't that hard to do. Send your submittals to N6ADI at BOX 62, Oakview, CA. 93022.

The Club also needs an Area Coordinator for the Los Angeles Area and is all this requires is to write a short report on goings-on in the LA Area once every two months.

The club is also looking for a BACKUP SCCCORE Editor to assist N6ADI in gathering information for the SCCCORE and to do the SCCCORE a couple times a year. This has a three fold purpose, (a) take some of the pressure off N6ADI, (b) add some variety to the SCCCORE with a new perspective and (c) have someone ready to go when SKI gets tired of it.

Where are all these motivated club members?

INSIDE THIS ISSUE ARE THE FOLLOWING:

PRESIDENTS REPORT
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THE AA CHALLENGE
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CONTEST ADVISORY COMMITTEE NEWS, ETC.

By Marty Woll N6VI

I assembled a combination information sheet and questionnaire for the Contest Forum at Visalia '86. If you didn't pick one up at the convention and have some input on the various issues before the ARRL Contest Advisory Committee, please send an SASE or see me at the next meeting and I'll get a copy to you. I handed out about 90 of these at the convention but have received only six back so far, so there should be quite a few floating around.

It was good to see so many contesters at Visalia. Congratulations to those who picked up contest awards there. Especially pleasing was Bob Ferrero W6RJ handing over the Cam Pierce Memorial Trophy for top multi-multi combined-mode CQWW score to Ed W6KUT (father of SCCC's NI6W) representing the K6UA station. This is the second year of the award and the second year that the op's at Dale's wrested it from the North. Nice going, guys!

PRESIDENT'S REPORT FOR MAY 1986

I just finished filling out a questionnaire passed out at the Visalia convention by Marty, N6VI, who is a member of the ARRL CAC. Marty was complaining about the lack of input he gets from the Contest Operating Community, so the CAC never knows what we want or need. He told us this at the Contest Forum as an introduction to his discussion of the matters before his Committee, and then he passed out the questionnaires.

I have the same problem with my own Club. Nobody ever tells me what they want, except a few of you guys who take the time to do it. Consequently, I have to make alot of the decisions about where our Club is going by myself. That is one of the reasons I'm happy to see attendance at the meetings on the rise, because I find out the most from the members at the meetings.

Would you please come to the next meeting? I would like to know what is on your mind, so I can try to do something about it within the Club. The next meeting will be held at a station that is very close to my heart, the Caltech Amateur Radio Club, W6UE. Over the last eleven years we have put alot of effort into making that club and station into something that cannot be readily achieved on a city lot or in a typical spare bedroom. We now want to show it off as it approaches completion. While you're there, I'll hit you up for ten minutes to fill out a questionnaire of my own so I can figure out what to do next. We'll then drink some beer or soft drinks, and discuss old and new business, and we might even have a little program, although this is not certain yet.

This will be the last meeting I can attend until late August, as I am off to Santa Fe, New Mexico to sing professionally all summer. I expect VP Ray, N6VR, will hold down the fort while I'm away, but the price of that may be that the July meeting gets held out in his neck of the woods, which seems appropriate to me. We haven't had a Club meeting out that-a-way for many years, and it would be good to recruit a few more North Counties members.

Speaking of recruits, we had two new members join at the March meeting, Dave, N7NR, and Jon, KB6IQW. A hearty welcome to you both. If any of you have contest buddies whose arms need just a little more twisting to join the club, now's the time. Bring 'em to the May meeting and show them what a great bunch we are.

Until the club meeting, 73 and good luck in the contest(s).

Mark, WA6OTU

MINUTES OF THE MARCH MEETING

The March meeting was a pot-luck Barbeque held on Saturday, March 22, 1986 at the home of Jim Neiger, N6TJ. Jim happens to be living at the legendary W6AM Rhombic Ranch. Present to take in the sight (and site) for perhaps the last time were: Dick, N6AA; Marty, W8AKM; Steve, N8BJQ; Steve, W6FRZ; Ron, K6GJN; N6GTS; Rich, N6GYS; Leon, W6HAL; Dennis, NE6I; Jon, KB6IQW; Joe, K5KT; Ed, W6KUT; Morgan, N6JVV; Terry, W6MKB; Dave, N7NR; Neal, N6NW; Mark, WA6OTU, and wife Kris; Cleon, AD6P; Bob, K6RR; David, AA6RX; Jim, N6TJ; Larry, N6TW; Ray, N6VR; Daniel, KA6VSS; Kurt, NI6W; Philip, KT3Y; Tom, AB6Z; and Phil, N6ZZ. This was perhaps the biggest turnout for a Contest Club meeting since the organizational meeting in 1976 at Pete Grillo's in Arcadia, when we had 40 people (and consequently 40 charter members, 5 of whom are on the list above).

Thanks especially to master chef Jim Neiger, the food was great. There was plenty to go around, and the crowd loved it. The company was great, to, and we all got a chance to visit with people we haven't seen in a while. Then, of course, there was the station and the antennas, truly a sight to behold (and some of which may be for sale if your fancy was tickled - talk to Jim).

Round about two and a half hours into the party, club president Mark, WA6OTU, saw it fit to call a meeting to order which surprisingly went on to last about two hours. First was old business, then new business, then discussion ensued. Boy, if there's one thing this group is good at, it's discussion....

Unfortunately for these minutes, nobody took minutes, which we'll fix next time. Our best recollection says that these were some of the topics discussed: Marty, N6VI, who is our ARRL CAC liason asked questions about the topics close to the CAC's hearts, as usual, and there were, as usual, some good ones and some bad ones.

Steve, W6FRZ, made an announcement regarding the International DX Convention in Visalia coming up on the 18th, 19th, and 20th of April. We turned the floor over to Dick, N6AA, who is running the Contest Forum, to tell us more about what we could expect this year. It will be pretty much business as usual this year.

Past President, Dennis, NE6I, asked us all to join his campaign to demonstrate that the California QSO Party doesn't play Caspar Milktoast to anyone, especially Yuri, VE3BMV, who in his infinite wisdom elected to schedule his new contest on the California QSO Party dates for October 1986. A grave error for Yuri to say the least (not the first, either, -ed.).

There was one topic of discussion that came up after all the routine business which pointed out that our club is beginning to agree on something at least, and that is that every one of us (at the meeting anyway, but that's all that matters) wants to enter some contests now as a club. Our roster is building up, our attendance is on the upswing, and our desire to work together seems to be at an all time high. Perhaps it is time to get organized in that respect. As I recall from the meeting, Jim Neiger agreed to head up organization of a club effort in the All-Asian CW Contest in August, and Dick Norton agreed to try to put together two complete SCCC Sprint teams for September.

This is about where the meeting and discussion broke up and everyone went their separate ways. The Club wishes to thank Jim Neiger, N6TJ, again for his great hospitality as host of our March meeting.

TREASURERS REPORT MAY 86

ON HAND AS OF MARCH 86	38.00	
MARCH/APRIL ISSUE SCCCORE COSTS		(14.52)
DUES RECEIVED MARCH MEETING	39.00	
MAY/JUNE ISSUE SCCCORE COSTS		(14.52)
TOTALS	77.00	(29.04)
BALANCE ON HAND MAY 86	47.96	

As you can see we are living on a small income due to the fact that quite a few members are paid up past 1990 at the \$2. dues rate so we need to have a fund raiser of some kind once a year to make ends meet. The only purpose for dues is to publish the SCCCORE and up until now our printing and paper costs have been donated and the only costs are postage. There are no guarantees on how long this will continue.

WHERE ARE WE GOING ? editorial by NGADI

At this point it looks like we are going no-where! We have been trying for the past 6 months to formalize club direction, goals and interests. This has been the worn out topic of discussion since the November meeting. It was covered in a mail-in ballot in January. It was discussed at the election meeting in January. It was discussed at the open-house, W6AM Antennae Farm in March and what has been accomplished with all this pointed conversation? Nothing that is apparent to anyone I have talked to. The agreed upon opinion is that the SOUTHERN CALIFORNIA CONTEST CLUB is a rag tag bunch of INDIVIDUALIST CONTESTERS that have no organized efforts, lack direction and clearly have little motivation. This opinion has been voiced formally by the NCCC and a number of our own members. I don't think that other clubs are made up of professional contesters but they do have active members who gather forces a couple times a year to have fun contesting and enjoying the fellowship of other contesters. As pointed out to me on the air the other night the SCCC's last formal club effort was Mexico a couple years back. What has happened? Have we all pooped out at precisely the same time? If we can't have at least one formal club operating event, well attended each year then I think that the contest club has totally lost its direction on the freeways of LA and some of its members are now looking for the next exit. Attempts have been made to correct the problem by offering members the opportunity to join multi-op efforts, members have been pooled at meetings and through survey's and still we have all decided to not decide. It reminds me of a car full of old lady tourists in Santa Barbara trying to decide which way to go while they have traffic backed-up for miles. The only decision that has been formally stated during the past 6 months of effort to get the club on track is that a "GROUP OF INDIVIDUALISTS THAT WANT TO DO OUR OWN THING!" exists in Southern California and is the SCCC.....

I don't think that it is a question of priorities because if the Club only has a couple efforts a year we should all be able to keep peace in the family, keep our jobs and careers and still get in a couple of good Club contesting efforts. Our meetings are optional and the reason we have 6 is to meet ARRL criteria. Meetings in LA on Saturday shoot the day for the members in North counties, San Diego and the Desert because it is a 2 hour drive each way. So meetings are clearly optional. If you are an active contester and attend all the meetings you are talking about possibly 25-40% of the weekends for a year and it's hard to keep peace in the family if you are this active, understandably so. With all the GUN stations in our geographical area we should mount at the least a couple of SERIOUS, WELL SUPPORTED, GROUP efforts per year.

I clearly don't have the answer to the Club's obvious dilemma but I have identified the problem to the club and its officers and we are all looking for some solutions. WHERE ARE WE GOING? At this point I really don't think anyone has that answer but there are those of us trying to find it!

OPPOSING VIEWS ARE WELCOME!

PLANNED SUMMER CONTEST EFFORTS

MAY	N6VR	WPK CW
JUNE	N6ADI	AA Phone
JUNE	N6TJ ?	AA Phone
AUGUST	N6ADI	AA CW
AUGUST	N6TJ ?	AA CW

N6TJ is organizing a formal Club effort for AA according to N6VR.
THE AA CHALLENGE

One of the most fun contests to operate is ALL ASIAN, with the phone version in June and the CW version in late July or August. I think there will be some formal organized efforts for both modes of this FUN contest. At the March meeting N6TJ was talking about mounting a club AA effort, I think from W6AM station. NGADI participates in this one every year and has a ball. Last year operating from KH6 for phone as a single op/single band 20 mtr and home for CW with a multi-op effort. Working Asia from the west coast is a breeze and a distinct advantage. The Asian countries are really up for this contest with lots of special efforts from countries usually not so active such as HS, BY and others. If you are interested in joining a multi-op effort contact NGADI and he will point you in the right direction.

If you are running any kind of HF station and enjoy the competition this contest is a must. Each Asian prefix is a multiplier and with all these JA's the contest is one of the least boring. Have you ever run out of JA's? Not often and especially on Friday night of the contest. This contest is sure to keep your adrenalin up!

SCCC REPORTS FROM VISALIA: DX CONVENTION 1986

For any of you reading who did not attend the 1986 International DX Convention in Visalia, you missed an annual pilgrimage which many, many contesters make religiously to get together at the one place and time that is at least somewhat local to Californians. The only other alternative to this kind of meeting is Dayton which is considerably farther away, more expensive, and you have even more non contest-related stuff to weed your way through to get to the root of your visit, that being to spend one day a year visiting with your friends of the airwaves on a personal and social level. So, if you didn't go, you missed a good time.

Even the banquet speaker this year was much more the contester than the DXer, and I recall the first slide on the screen of what in years past has been a less than entertaining portion of the weekend, was a photograph of a CQ Worldwide CW Summary Sheet from 1986 showing a higher total score than any other summary sheet submitted for that contest - operated by Jim, N6TJ, from a station in the Cape Verde Islands belonging to Julio, D44BC. This was the only contest-related photograph, as Jim spent the entire program setting up in our minds (and fantasies) a picture of the human side of contest dxpeditioning, acquainting us with people and places more than rigs and antennas. It was not to be missed.

The contest forum was run by Dick, N6AA, and was predominated by SCCC member Marty, N6VI, who delivered an eloquent summary of what the League Contest Advisory Committee had been up to recently. There was a lot of questions and answers and a little venting of anger and frustration as usual, but it didn't compare in triteness to years past when shouting matches developed between guys who won and guys who lost who thought the guy who won shouldn't be allowed to have a good station...no, Marty's CAC forum was very productive and he used his time well, as usual. Also in Dick's forum was the CQ Committee report hosted by Bob, K3EST (who now lives in California), but that was a yawner, opening the same old wounds, and then pouring salt into them. Luckily it didn't last very long. An anti-climactic ending was provided by the distribution by the DX clubs of the plaques for various achievements in various contests in the last FIVE (5) years. Though 30 or 35 plaques went out, they only went to the same 7 or 8 recipients.

Finally, the annual NCCC middle-of-the-night hospitality suite was its usual success, giving everyone who hadn't already seen and talked to each other a last chance to do so, and all of us SCCC members who don't participate in the expense of the beer in their bottomless ice-filled bathtub owe the Northern California boys a vote of thanks for keeping a cold beer in our hands all night long.

Congratulations to Club member Larry, W7CB, for winning the ever unobtainable TS-940S grand prize in the drawing.

NORTH COUNTIES REPORT

Things have been pretty hectic here in North counties with seemingly everyone busy with things other than contesting or radio for that matter. Not much to report except that N6VR is looking for a CW team to man his station for CQW WPX and was working on a new second operating position in the shack. Call him if you are interested!

NCCC WINS WPX

NCCC wins WPX Club competition for 1985 with 37 M points combined Phone and CW. This year they have already amassed 25 M points in the Phone portion with CW just ahead. They are looking to kick butt according to The JUG, their monthly newsletter. Its hard for our small group of individualists to compete with a club that is great in number, has a lot of motivated contesters, and are well organized. See "Where Are We Going?" elsewhere in this issue of SCCCORE!

WANTED: Source for Sprague series 48P coaxial capacitors (e.g., 48P100 0.5 mfd @ 60 amps) ... Marty N6VI
FOR SALE: 160 Meter Linear Amplifier, 500 Watts, brand new tubes \$80 ... Marty N6VI

TAPE LOOP FOR 'PHONE CONTESTS

By Marty Woll N6VI

Having decided to operate 160 meter single-band from home in the WPX last month, I knew there would be long stretches of CQ'ing. I decided to try a tape loop, and it turned out to be effective, easy and a great throat-saver. I used a small battery-powered portable cassette player and a Radio Shack 15-second answering machine cassette loop. Two short CQ's fit nicely on a 15-second tape, each followed by about four seconds of listening time. This way, the loop can be left going with the rig on VOX until someone answers.

I first recorded my CQ's using a small recorder microphone, but the frequency response was very poor. Midway through the contest I clipped the station mic (a Heil boom mic) into the recorder and re-recorded my tape. Now it sounded just like a live call; lesson learned. The taped message goes from the player's earphone jack to the phone patch input on my TS-930S. A spare foot switch was hooked up to the "switch" jack on the player, allowing me to stop the loop any time I got a call during the listening cycle. Otherwise, just resting a foot on the switch keeps the station calling and listening, calling and listening. Leads to the player were wound around toroid cores; no other shielding was needed and there was no sign of RFI, despite the KW next to the tape loop.

DXing & CONTESTING TIPS (cont. from last) (Issue of SCCCORE)

ESSENTIAL TO HAVING ANY SUCCESS ON 20 METERS. Tune from 14.1 to the top of the band. First thing you will notice is how over-crowded the band is, look for the weak DX CQ's or enter one of the vast number of pile-ups. The pile-ups should be considered before wasting your time. Who is the DX station working? If he isn't working your part of the country check back later and don't waste your time. That is of course unless you have 6 over 6 and a multi KW station then you might spend a few minutes and pop the DX station off through the east coast pile-up! Things to remember about 20 meters 1) know the propagation (general openings, short and long path, freak openings too!), 2) don't waste time in a pile-up on a dx-pedition because they will be looking for customers later in the contest and will be easy to pick-off. 3) know the operating times of other areas of the world example: E. Africa's evening is our morning etc. If you have one check your sunrise sunset and darkness slide rule for openings. Good luck on 20 meters..

40 METERS

40 meters can be a good or poor band depending on; conditions, the antennae used, and your operating skills and knowledge. Two elements at 66'-80' is hard to beat even with poor conditions. 40 meters can start going about 1/2 hour before sunset and often continue til as late as 10am local the next day. At sunset one should check the LONG PATH opening to Europe, Africa and Indian Ocean areas. Shortly after sunset the Caribbean and South America will start coming in, however, the East coast of the U.S. has the advantage and has had darkness for 2-3 hours so their signal absorption is gone. At about 0430Z (depending on conditions) Africa and Europe will start short path and this will continue til 0630-0730Z (their sunrise). At about 0600Z the Pacific, Asia and VK/ZL will appear. The JA's start around 0800Z and last til sometimes as late in the morning as 1600Z. One other opening that must be mentioned is the LONG PATH sunrise opening to Africa and Europe. The key to 40 meters is getting every multiplier/country possible and then work ton's of JA's. The biggest problem is clear frequencies. Since most DX is operating below 7.1 except VK,ZL; the pacific and Central and South America;

they must listen up and we must listen down. Since 7.150 to 7.3 is shared with foreign broadcast it is difficult to find a clear frequency for them to hear us. There are some standard WINDOWS but you have to know the band to realize where they are. The thing to do is to listen to the DX station and he will call out his RX frequency. Write it down on a running list so that when you want to call CQ you will know what frequencies are clear for DX to hear your CQ call. You should also know what frequencies are clear below 7.1 for you to hear them answer your CQ. At times you might have to direct the callers to a different frequency so you can hear them better. DON'T forget to tune between 7.1 and 7.3 for DX too! They are there! Learning how to be successful on 40 meters is by operating there and learning the propagation. GOOD LUCK and your time spent on 40 meters WILL pay off!

80 METERS

This is a speciality band and must be worked with experience in order to maximize QSO's and multipliers. One can do fair with only an inverted Vee at 50 ft. and a KW, but to perform well and be highly competitive one needs antennas such as a quad loop, phased verticles or wire beams. 80 meter performs very similar to 40 as far as propagation characteristics. It all begins at sunset with the Carribean, South America and possible LONG PATH openings to the Indian Ocean. Without directional antennae all you can do is listen for weak DX CQ's and get through when the packs thin. The East coast and mid-west have the advantage to begin with and the best thing to do is hunt for weak CQ's or call CQ yourself. At about 0500-0600Z propagation will move to the Pacific. At around 0800-1000Z the JA's will start and last til shortly after sunrise. The JA's have only 5KC's of band width, 3.797 to 3.802 so a clear frequency is hard to find and keep. 80 meters is a somewhat limited QSO band so only a certain number of JA's will appear. The DX frequency for the US is 3.775-3.825. Most other countries use the same frequencies with a few exceptions; LU and UA 3.6-3.65, VK 3.65--3.7, VE and some South America 3.7-3.775. There is a sunrise LONG PATH opening to Europe and Africa during the JA openings so it is advisable to tune every so often for this opening. Propagation greatly affects 80 meters and the QSO rate is not great but it offers some choice multipliers and some rate. IMPORTANT: USE YOUR SUNRISE/SUNSET/DARKNESS SLIDE RULE FOR THIS BAND!!!

160 METERS

This band shadows 80 meters but is only about 30% as effective. Limitations are antennae size and number of people on the band. Only during extremely good conditions can Europe or Africa be worked. The times are the image of 80 meters and most DXer's are QRU on 160 meters on the hour or 1/2 hour. The largest number of QSO's are stateside and JA. The JA opening is from 1200-1530Z and their frequency is 1.907-1.912. There is a gentlemen's agreement on 160 meters "No U.S. allowed between 1.825 and 1.830". This is the DX window! 160 meters is a very slow band and many QSO's are scheduled on other bands.

OPERATING SKILL

Operating skills are developed through experience but here are a few tips:

PILE-UPS- When the pile-up is on you pick them off the edges, have them spread out (no more than 5KC's is necessary), operate split when the station you have called hasn't been able to hear you through the pile. When you are in the pile- call on the edge of the pile, tail end the guy he is working, don't be polite or timid be aggressive and smart. Best tricks are skirting the pile on the edge or tailending. When he says the W6 go for it if you are a 6 etc.

Operating skill is developed by experience but it takes an aggressive type of person to really be effective and successful at it. If you are timid and shy or quiet you probably will have trouble with being a success. A competitive type person seems to be better suited to meet the challenge of DXing and contesting. To break some pile-ups you have to be sneaky, loud, aggressive and competitive. This isn't to say that the other type person can't do it but they just don't seem to be as consistantly successful at it.

I have included some additional helpful information; A suggested band plan sheet and a sheet listing bands and where the DX will be. GOOD DX AND GOOD CONTESTING!

POSSIBLE BAND PLAN COMMENTS

GMT Time	Comments
00	Best 10 meter JA time
01	These can be the best times for working Central and South America on 20- it's when we have the propagation edge.
02	This is a good time for deep Asia (UI, UL, AP, etc.) on 10 through 40. It's also the best time to run JA's on 15/20
03	A good time for the Caribbean on 40, and on 80 around 05
04	If you want to work Europe and Africa on 80 and 40, these are the best times. 05 is particularly a good time on 80. These are also good times on 15 and 20 for running JA's. Look for surprise LP openings to Europe on 10/15. Lastly, sometimes 20 will be open for hours to Europe, especially in late March.
05	
06	
07	Sometimes a good time to look for North Africa on 80/40
08	A good time for ZL and Oceania on 40/80. Also a great time for JA' on 40.
09	Look for VK's on the low bands starting about now
10	Quick Caribbean multipliers on 40/80
11	Best JA times on 40/80, especially the first night. I always sleep the second night.
12	
13	Quick Caribbean multipliers on 20. Deep or Southeast Asia on 80/4
14	These two hours are basket cases. 40LP, 20LP, 10SP, 15SP to Europe and the Mid East. The 40 and 10 openings can be very short.
15	IT8s also a good time for Asia and Oceania, not to mention LP to Africa
16	Concentrate on 10 and 15- 20 will be open later and the East Coast probably has the edge there anyway.
17	
18	Good time for Africa on 10/15
19	
20	Now's the time to look for Europe on 20, especially in the CW weekend. This can also be a peak time for the Americas on 10
21	This can be a peak time for the Americas on 15
22	
23	The best time for Africa on 20

SPECIAL NOTES ON FREQUENCIES

160 METERS

1. W's usually operate 1800-1810 CW; 1810-1825 SSB
2. DX usually operates 1825-1830 and listens 1800-1810
3. JA's are restricted to CW and operate from 1907-1912
4. KX6, KW6, KC6, KG6, etc. restricted to 1995-2000

80 METERS

1. USA and DX CW use 3500-3550
2. USA SSB uses 3775-3840
3. JA's on SSB use 3797-3802 or 3550-3600
4. All Russians use 3600-3650 on SSB
5. All VK's use 3670-3700 on SSB
6. Most DX stations can operate up to 3800
7. Split operation is usually in the 3720-3775 region

40 METERS

1. W's and DX usually operate 7000-7050 on CW
2. W's and most DX operates 7150-7260 on SSB
3. Split operation is usually 7060-7100
4. There are only a few operating "holes" available to W's inbetween the broadcast QRM on SSB, especially to Asia and the Pacific. The most popular are listed below, along with one, two, or three checks indicating how reliable the hole is:

7155	X
7175	XX
7185	X
7195	XX
7205	XX
7225	XX
7235	XXX
7255	XXX
7280	X

MAY MEETING ANNOUNCEMENT

The May meeting will be held at the Caltech Amateur Radio Club, WGUE, on Saturday, May 17, 1986. An open house will start at noon, and the club meeting will commence at 2:00pm. Beer and soft drinks will be available, at significantly reduced prices from those that you'd purchase at a Pizza joint.

To get there from the San Fernando Valley or the San Gabriel Valley, take the 210 into Pasadena, and get off at Hill. Take Hill south past about 5 lights, to San Pasqual, and turn right (west) into the campus. Drive to the end, past the "ROAD CLOSED" sign to the driveway on your left. Turn into it and park in the lot at the end of it, even though the lot is for faculty and staff only - that's during the week. Look east to the building with the tower and yagis and follow your instincts upstairs to the club station. It's easy to find.

Coming from Los Angeles, you can take the Pasadena Freeway (110) north to where it ends and turns into a surface street, which is called Arroyo Parkway. Take Arroyo north to California, turn right (east) about 1.5 miles to Hill, and turn left (north). Go one block to San Pasqual and turn left (west), then follow the above directions from that point.

Talk in on 144.415 simplex.

