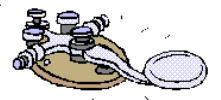




Long Path



Volume 23 Issue 7

SEMDXA NEWSLETTER

April, 2006



Greetings Fellow DXers!

I just got a email off to Mike, **K9AJ**, thanking him for putting on a very nice presentation. I thought the entire presentation was good, I was particularly interested in **H79W/YN4**. How a persons hands can look that bad from all the bug bites and not scar is beyond me. Maybe the natives build their homes on stilts for more than just lobster fishing. My guess is they want to stay out of the jungle and away from bugs.

While I am at it I would like to thank **W8LU**, for providing the transportation for Mike and his wife while here. Glad it all went well and thanks a bunch for the help.

Our projector fund is doing VERY well and I want to thank all of you that donated for all your help. I am in hopes we can have the projector by the April or May meeting. Once again, as a reminder, if we have any excess funds they will be put into the club treasury to assist in underwriting future programs. If you have not yet donated and wish to, please get in contact with **N8SNM**. Elsewhere, in this issue of the *Long Path*, a list of donors is noted.

Thanks too Brad for all your help. Our April presentation is going to be put on by some of our own members. In No-

Mike McGirr, **K9AJ**



SEMDXA President, **K8SIX**



member you probably worked either **K8DD/FP**, **AC8W/FP** or **K8MM/FP** during the CQWW DX contest, and now you will have the opportunity to see firsthand what transpired during that operation. Make sure you mark April 7th on your calendar and I look forward to seeing you all at the Troy Elks once again.

'Till then 73 and be safe.

K8SIX, President

February Minutes

Although previously promised, the February, 2006 *SEMDXA* meeting minutes remain unavailable. Hopefully, this will be resolved before the May issue of the *Long Path*.

**Michigan QP Test
April 15. Details in-
side!**

SEMDXA CLUB OFFICERS

President: Al Bailey, **K8SIX**

Vice-president: Ken Schang, **W8LU**

Treasurer: Brad Nowak, **N8SNM**

Secretary: Stan Arnett, **AC8W**

Director: Ted Pauck, **K8NA**

Web Site Editor: Ken Schang, **W8LU**

DXCC Checker: Bill Jones, **N8KF**

DXCC Checker: S.Arnett, **AC8W**

VUCC Checker: Al Bailey, **K8SIX**

CQ Checker: Mike Rudzki, **N8MR**

CQ Checker: Al Bailey, **K8SIX**

Program Chair: Sean Fleming, **K8KHZ**

LP Publisher: Gerry Fasse, **W8GF**

March SEMDXA Minutes

Called to order at 7:50 p.m. by President, **K8SIX**. Thirty-four members and guests present. Treasurer **N8SNM**, tells us we have \$554.98 in the treasury. He also notes that the Projector Fund has \$1,051.

President Al notes that many DX-ers will be attending the upcoming VU4 Hamfest April 18 thru 25 including Bernie, **W3UR**. Andamans should move down on the "Most Wanted" list.

W8LU, club webmaster, had to rebuild the server. If you are experiencing any problems with the site contact him.

Secretary **AC8W** did not attend the February meeting and **K8CC** is not here tonight so there is no Secretary's report for last month. The membership gave a round of applause for Stan's upcoming retirement on March 17th.

K8NA tells us his 2 meter connection to his packet node is temporarily down, but should be back this week-end.

K8SIX introduced Mike, **K9AJ** from Crete, Indiana who will tell us about some of his recent IOTA-expeditions. Mike, along with Bruce, **KD6WW** are veterans of several trips to "rare" islands for the IOTA Award program.

The first show featured their February, 2005 visit to SA-094, Rennel Island off the coast of southern Chile. They teamed up with **CE6NE**, **CE6TBN**, and **HA1AG** to put on **CE8A**. The group met in Punta Arenas and went by bus to Puerto Natale where they boarded the boat called the "Shogun II" for the eleven-hour trip to Rennel Island. Very rugged fiord-like geography highlighted the journey. Two stations were set up, one CW and one

SSB along the rocky shore where the boat could land them. Operating from tents with small generators for power they gave out this rare IOTA. They made over 6,200 Qs and endured cramped quarters and insect bites to give the deserving a new IOTA.

Mike and Bruce again teamed up September 1 thru 6, 2005, this time traveling north to the Arctic to activate NA-175 and NA-227 (new) as **K9AJ/VY0** and **KD6WW/VY0**. Mike flew to Edmonton, AB and then to Yellowknife, NWT. Unfortunately, his Pelican case with his rig stayed in Chicago. From Yellowknife they flew to Kugluktuk (formerly Coppermine) an Inuit village where he was re-united with his luggage just before leaving for the islands. At the local Adjukak (trapper) center they obtained permissions, guides and equipment for their onward journey to Blaze Island, NA-175, about 60 miles by open boat from Kugluktuk. They were required to purchase and wear Mustang Survival Suits because, if they went in the water, they would not last very long. Since they were above the tree line the scenery seems bleak and relatively flat. Operating from tents and used Sigma 40XK antenna. 1,931 Qs were made despite very poor conditions..

Moving on to Couper Island, NA-227, they operated under similar conditions to activate this new IOTA. Wildlife included caribou, arctic hare and they even saw a bear. This operation netted 2,270 Qs for the deserving.

Next Mike showed pictures of their November 16-18, 2005 trip to Miskitos Cays, Nicaragua. Mike was **H79W/YN4** and Bruce signed **H79W/KD6WW/YN4**. This trip, as described, was perhaps the most challenging. After flying to Managua they journeyed to Puerto Cabezas when they got in an open boat and rode into the night. Miskitos Cay is a community of lobster fishermen who live in houses on stilts. An IOTA criteria is that the operation must be from

solid land, so they got a guide who took their boat into the mangrove swamp and found them a small area to set up tents and antennas. Part of the time they walked through leech filled muck to get to a small clearing. They endured biting flies and rats during their brief operation but were able to activate this IOTA "new" and hand out over 4000 Qs.

Lastly, Mike made mention of his most recent trip to the Farralon Islands, a wildlife refuge off the coast of CA near San Francisco. This trip to NA-178 netted 2,463 Qs.

An outstanding look at activating some pretty rare territory for the IOTA program. Great job and an outstanding program.

Treasurer **N8SNM**, asked members present to fill out a new form so club records can be updated.

Meeting adjourned at 9:15 p.m. to general fellowship.

AC8W, Secretary

Survivor KC8VKZ

Randy McCloy -the lone survivor of the January 2 Sago Mine disaster in Upshur County, West Virginia is continuing to recover. His wife Anna says that he talks, listens and jokes with his family. As she put it "regular conversation."

She noted that he has only vague memories of the disaster. He does not realize that he is the only survivor of this horrific accident. The medical staff are saying that he is recovering far beyond their expectations.

As printed in a recent ARRL Letter.

W6QYI!

This call sign -**W6QYI**- happens to belong to Roger Cardinal Mahony of Los Angeles, California. Recently, during an interview, his Eminence stated that he would have no part in revealing illegal immigrant status of anyone that attended his church. Even under the threat of arrest! Radio amateurs take pride in achievements of participants in their hobby and we can be especially proud of **W6QYI**.

Projector Fund Donors

The following *SEMDXA* members have contributed to the Video Projector Fund-Raising campaign.

- | | |
|------------------|------------------|
| 1. AC8W | Stan Arnett |
| 2. K8CC | Dave Pruet |
| 3. K8ESQ | Dave De Rain |
| 4. K8FT | Jim Kuhns |
| 5. K8NA | Ted Pauck |
| 6. K8NWD | Tim Pepper |
| 7. K8SIX | Al Bailey |
| 8. K8UP | John Fleming |
| 9. K8VJV | Bob Crawford |
| 10. K8YTO | Chet Sprinkle |
| 11. K8ZZU | Jim Sanford |
| 12. N8LJ | Lee Dziekan |
| 13. N8MOJ | Marion Minimyer |
| 14. N8SNM | Brad Nowak |
| 15. N8ZX | Gene Klingler |
| 16. W1SKU | Fred Holmes |
| 17. W8AP | George Goldstone |
| 18. W8GF | Gerry Fasse |
| 19. W8LU | Ken Schang |
| 20. W8SJ | Dick Fasse |
| 21. WD8S | Mike Van Buren |
| 22. WZ8K | Jim Brooker |

Others desiring to donate to our Projector Fund may contact our Treasurer N8SNM. Any amount is welcomed and appreciated!

SEMDXA Roster

Our active membership roster now totals 60! This is the largest-ever active membership total of our group to date. Our club officers including President **K8SIX**, Vice-president **W8LU**, Secretary **AC8W** and Treasurer **N8SNM** are to be congratulated since they have provided just the right climate for our growth. Our all-time roster contains 236 call signs.

K8YTO Profile

Newest *SEMDXA* member profile

Chet Sprinkle has been a ham since 1961. However, his passion for chasing DX occurred in 2000 after he retired. Currently he is interested in improving antennas, getting his Extra license, and improving his DX chasing knowledge. He credits his DX progress to his Omni VI, Hercules II and Carolina Windom antenna (N/S). In addition to CW and SSB modes, he plans to add RTTY and PSK 31 this spring.

Chet is adding a second wire antenna (E/W) this month. He has been happily married to his wife Rose for "many" years and has a married daughter and "new son." Prior to his retirement Chet worked for a number of computer firms over his 30 year career developing and supporting software in many management assignments. Chet resides in Franklin.



April Showers bring May Flowers!

The following article was written by long-time *SEMDXA* member George Goldstone, **W8AP**

Apples vs Oranges

Comparison of receivers is a favorite indoor sport of amateur radio operators. Manufacturers of commercial gear spend a great deal of advertising money trying to make the typical ham believe that the newest model -the "Godzilla 610"- is the neatest thing to come down the pike since DeForest invented the audion. All stops are pulled out to convince readers of that advertising that a model perhaps a year old is now obsolete. Should you believe it?

There was a time when QST's reviews of new equipment did nothing more than parrot the manufacturer's ads. This changed in part due to a bequest to the ARRL from the late Ralph Theatreau, **W8FX**. A portion of the bequest was used to top buy a top-quality Hewlett Packard Spectrum analyzer, equipment equal to or better than that being then used by most of the manufacturers. Thereafter, QST product reviews were on a "tell it like it is" basis. Nothing could have pleased "Tate" more.

The ARRL's lab developed rigid standards. New equipment being tested was purchased blind, over the counter, from regular retail vendors. Tests compared manufacturer's claimed specs with ARRL lab test results. To be completely fair, ARRL would advise the manufacturer of any major discrepancy between lab results and manufacturer specs. In most cases of deficiency, the manufacturer would then seek the causes of the trouble, and correct them before faulty products became widely distributed.

But there's a new problem. Some avid

DXers have questioned the validity of ARRL's signal, using 20 kHz separation for "wide-spaced" signals, and 5 kHz spacing for "narrow spaced" signals. In a well-documented article in Sept/Oct 2002 QEX (ARRL's magazine for experimenters), Tad Raczek, **SP7HT** shows that more closely spaced tests measure more realistically a receiver's usefulness for DXing and contesting. He cites **W8JI**'s use of 10 kHz for wide-spaced signals, 2 kHz for narrow spaced signals. The standards of reference are blocking dynamic range (BDR) - the difference between minimum discernible signal (MDS) and an off-channel signal that causes 1 dB of gain in the receiver; and two-tone third-order dynamic range (IMD DR), the difference between MDS and the levels of two interfering signals causing IMD products just equal to the MDS. (don't be snowed by this gobbledygook; it is only SP7HT's statement of terms, which agrees with what QST has been saying for some time).

SP7HT and **W8JI** both say that in the real world of ham radio radio, you should check out effective selectivity, applying the condition that affect your receiver. If you operate under conditions when heavy interference is not 5 kHz away from your frequency, but 2 kHz away, you should use those conditions to decide whether your receiver is up to the job.

What receivers does **SP7HT** say are best under QST's present standard? It may surprise you: the Elcraft K2, the Ten-Tec Omni-VI and Omni -VI+!

The receiver preferred by **W8JI** is a heavily modified Drake R-4C, rebuilt with solid state double balanced high level mixer and Sherwood 600 hZ roofing filter. The basic R-4C is 30 years old or more! Perhaps the designers of three decades ago were on

the right track.

That brings us back to the question: Should we believe the advertising? In any event, beware of comparing apples to oranges.

W8AP



DX Prospects

Unless you are a dedicated low-band DXer, you are probably wondering how it is that we deserve what's been happening to our traditional HF DX bands, i. e., 20, 15 and 10 Meters. With solar flux stalled in the mid 70s range and little immediate expectations for improvement, many of our brethren have reverted to their stamp and coin collecting, photography, casino visitations and other past-times. The sad part is that we will endure another year or two until improvement comes along. Right at this point, it looks like Cycle 23 has about another year to go before Cycle 24 begins. Even then, it will be at least another year or maybe longer before Cycle 24 builds to the point where our traditional DX bands will show any signs of improvement.

Depending upon who you listen to, Cycle 24 could be either another barnburner (Cycle 19?) or just a small blip along the X-axis. Only time will tell since such solar activity predictions are fraught with indeterminate issues. But, meanwhile, the low bands keep getting better and better. DXing for example on 160 and 80 Meters has been excellent

with signals from all corners of our world coming through. You want advice? Get active on the low bands and take advantage of some very excellent propagation. The secret here is patience and good antennas!

Our club's six meter ops may have an opportunity to work a new one towards the middle and end of April. Aves Island (**YV0**) is to be activated by the ARV (Association of Radioamateurs of Venezuela). The call sign will likely be **YX0A** and they plan on being active on six. Let's hope for a nice Es opening around that time! Good luck.

Of course the big news in the world of DXing is the Andaman Islands (**VU4**) DX-pedition that is scheduled for April 18th through April 25. Several groups have made application to operate during this time including at least one American group.

The Andamans are ranked #5 on the most wanted list. Over 300 islands are included within this group. If you want a bunch of information on the Andamans, type *Andaman Islands* at the Google Search Line. It's amazing what you will run across.

Now about propagation. This issue of the *Long Path* includes a propagation study for the Andamans centered on the Southeast Michigan area. Obviously 20 Meters is your best bet for both regular and long paths. Regular path (over the North Pole) propagation on 15 Meters is unlikely but Long Path is a distinct possibility. 40 Meter propagation will be a tough sell at this time of the year but there may be some gray-line signals sneaking through.....

Check the weekly ARRL DX letter for up to the minute details.

W8GF

2006 Michigan QSO Party

Attention Michigan Hams. Do the low sunspot numbers and worsening HF conditions have you feeling down? Do you find it difficult to conjure up the energy needed to get on the air and have some fun like in the old days? Do you shy away from participating in ham radio related group activities? If you have any one of, or all of the above symptoms, you may be suffering from Amateur Radio Dysfunction Syndrome, also known as "ARDS".

Fear not! "ARDS" is a condition that can be treated with proper corrective actions. It is a fact that 9 out of 10 doctors agree that the best treatment for "ARDS" is a good dose of "Radio Activity". Doctors also agree that the most efficient delivery method for "ARDS" treatment comes in the form of participation in the 2006 Michigan QSO Party. The number of "ARDS" patients seeking treatment in the MiQP has been growing every year. Remember, this is a yearly condition, and yearly treatments may be needed. Treatment may be administered in single exposure doses taken in the comfort of your home (Single Op), or when you travel in your car (Mobile). If you are apprehensive about taking the treatment when you are alone, you may be treated within a group session (Multi-op), or as single treatment member of a larger support group like your radio club. Your treatment support group can compete against other "ARDS" support groups.

Warning! Dosages should not exceed time periods of over 12 hour. Exposure times of less than 12 hours may be appropriate depending on the severity of your condition. Remember even short exposures to MiQP "ARDS" treatment will be of benefit to you. If at any time during

the MiQP treatment period you experience excessively high "Fun" levels, you should consider terminating or reducing the level of treatment. In rare cases excessively high "Fun" levels have been known to last for days after the treatment. If these high levels should persist, see your family doctor.

The Michigan QSO Party "ARDS" treatment should only be taken as prescribed below.

Date /Time: Michigan QSO Party, sponsored by the Mad River Radio Club, from 1600Z April 15th the full 12 hours. (12 noon to 12 midnight local Michigan time on April 15th).

Modes and Categories: Phone and CW on 80/40/20/15/10 meters. Single-op, multi-op, and mobile categories. Single-op entries are categorized by output RP (5W or less), Low Power (100W or less), and High Power (greater than 100W).

Multipliers: Work stations once per band and mode. Work other states and Michigan Stations. MI to MI QSO's are allowed. Work portables and mobiles again as they change county, state or province.

Exchange: Exchange QSO number and location (county for MI stations, state/province or "DX" for others).

Scoring: One point per phone QSO, two points per CW QSO. Count multipliers once per mode. Multipliers are MI counties for all entries, plus states & provinces for MI entries only. Final score is total QSO points times total multipliers.

Freqs: Suggested frequencies: CW-3545, 7045, 14045, 21045, 28045; Phone-3850, 7225, 14250, 21300 and 28450.

Log Submittal: Mail logs no later than 30 days after the contest to: Mad River Radio Club, c/o Dave Pruett, 2727 Harris Road, Ypsilanti, MI 48198 or via e-

mail to logs@miqp.org

More Information: For complete rules, along with free logging software, logs and summary sheets go to our web-site <http://www.miqp.org>

All kidding aside, the MiQP is a ton of fun. It has been growing in size every year We expect this year to be even better! There will be stations on from all 83 counties. Consider making it a club event. This is a great way to get folks on the air. I ask that you all help spread the word about the 2006 MiQP. Let's all make Michigan "Radio Active" on April 15th!!

73, NU8Z

Paid up *SEMDXA* members in alphabetical order:

<u>CALL SIGN</u>	<u>E-MAIL</u>	<u>CALL SIGN</u>	<u>E-MAIL</u>
AC8W	AC8W@ARRL.NET	N4JQQ	CROWNHAVEN@BELLSOUTH.NET
AD4UU	AD4VU@COMCAST.NET	N8CQA	N8CQA@ARRL.NET
K8BB	K8BB@COMCAST.NET	N8HZM	MLS1@COMCAST.NET
K8CC	K8CC@COMCAST.NET	N8JV	N8JV@COMCAST.NET
*K8CW	K8CW@ARRL.NET	N8KF	N8KF@ARRL.NET
K8DD	K8DD@ARRL.NET	N8KIE	N8KIE@AOL.COM
K8ESQ	K8ESQ@SBCGLOBAL.NET	N8LJ	N8LJ@USOL.COM
K8FT	JIM.KUHNS@IEEE.ORG	N8MOJ	N8MOJ1@AOL.COM
K8GT	K8GT@ARRL.NET	N8MR	N8MR@ARRL.NET
K8IY	DFWOOD@OAKLANDCC.EDU	N8OZ	N8OZ@ARRL.NET
K8JM	K8JM@USOL.COM	N8QGC	N8QGC@ARRL.NET
K8KHZ	K8KHZ@K8KHZ.COM	N8SHZ	N8SHZ@COMCAST.NET
K8MSU	K8MSU@JUNO.COM	N8SNM	BNOWAK@SPEAKEASY.NET
*K8NA	K8NA@WIDOPENWEST.COM	N8ZX	N8ZX@TDS.NET
K8NWD	K8NWD@COMCAST.NET	NE8I	NE8I@ARRL.NET
K8SIA	K8SIA@ARRL.NET	NE8Z	NE8Z@YAHOO.COM
K8SIX	K8SIX@COMCAST.NET	W1SKU	W1SKU@ARRL.NET
K8UP	JOHN@FLEMING-PHOTO.COM	W4CEO	SCAT42@EARTHLINK.NET
K8UT	K8UT@ARRL.NET	W8AP	GEOGBH@NETZERO.COM
K8VFB	K8VFB@ARRL.NET	W8GF	W8GF@COMCAST.NET
K8ZE	K8ZE@CHARTER.NET	W8LU	W8LU@SCHANG.NET
K8ZZU	K8ZZU@SBCGLOBAL.NET	W8PP	W8PP@COMCAST.NET
KC8JAY	KC8JAY@ARRL.NET	W8SJ	W8SJ@AOL.COM
KC8OBH	KC8OBH@AOL.COM	W8SYR	JDBUHL@AOL.COM
KC8PKY	KC8OBH@AOL.COM	W8UA	W8UA@MYVINE.COM
KK8I	DL2HBX@DARC.DE	WA8BIJ	WA8BIJ@ARRL.NET
KP4E	KP4E@AMSAT.ORG	WD8S	WD8S@ARRL.NET
KQ8D	ROGER49201@YAHOO.COM	WQ8T	WQ8T@ARRL.NET
KT8X	KT8X@PRODIGY.NET	WZ8K	WZ8K@MIQRP.NET
K8YTO	K8YTO@ARRL.NET		
LZ4GU	LZ4GU@YAHOO.COM		

*Indicates perpetual membership. 60 Total Call signs

Note: If your call sign does not appear on the above list, you will not receive further issues of the *Long Path* until your dues are brought up to date. Check with Brad, N8SNM *SEMDXA* Treasurer. If you have paid your 2005/2006 dues and your call is not indicated, check with Brad to resolve any issues.

Our perpetual roster contains a total of 236 call signs. Of these 14 are Silent Keys (SK).

SEMDXA Membership Silent Keys include the following: **KB8IO, KC8OB, KM8Y, N8EOA, N8FGH, NG8S, W8BXM, W8KPL, W8KZM, W8LZV, W8QFR, W8URM, WB8OHO and WD8CRY**

SEMDXA MEMBERSHIP RENEWAL

South Eastern Michigan DX Association (SEMDXA)

Date: _____

Application for new membership _____ or Application for renewal _____ (check one)

Full membership _____ or Associate membership _____ (check one) Dues: \$20.00 annually

(See SEMDXA website for membership requirements)

Present Call Sign: _____ Previous Call Sign: _____

Name: _____

Address: _____

City: _____

State/Zip Code: _____

Telephone: _____

E-mail address: _____

MAKE CHECK PAYABLE TO SEMDXA

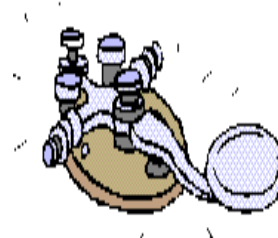
Make payment at next SEMDXA meeting or mail with remittance to:

Brad Nowak, Treasurer

4665 Melanie Lane






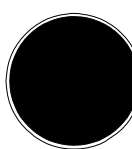
White Lake, Michigan 48383

NOTE: TO RECEIVE THE CLUB NEWSLETTER "THE LONG PATH" YOU MUST PROVIDE YOUR E-MAIL ADDRESS!



April 2006

SEMDXA Monthly Planner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																																	
						1 All Fool's Day EA RTTY Test MO QSO Party QCWA QSO Party SP DX Test																																																																																																	
2  Daylight Savings Time Begins		4 222 VHF Sprint DX YL/YL CW Test		6  Army Day	7  W1AW Qualifying Run	8 EU CW Spring Sprint JA CW Test Milford Swap MT QSO Party Yuri DX Test																																																																																																	
9  Palm Sunday		11 DX YL/YL SSB Test	12  K6YR Qualifying Run	13 Full Moon  Passover	14  Good Friday	15 EU SSB Spring Sprint Income Tax Day MI QSO Party ON QSO Party YU DX Test																																																																																																	
16  Easter Sunday			19	20 432 Spring Sprint Last Day of Passover W1AW Qualifying Run		22 Columbia DX Test FL QSO Party NE QSO Party SP RTTY Test																																																																																																	
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W6ELProp Long-Path Prediction for 04/23/2006

TERMINAL A: 42.29 N 83.00 W w8gf Sunrise/Set: 1044/0017 UTC Bearing to B: 185.1 deg
 TERMINAL B: 11.00 N 92.80 E Andaman & Nicobar Sunrise/Set: 2337/1157 UTC Bearing to A: 176.1 deg
 SSN: 16.3 Flux: 75.0 K: 2 THIS IS A POLAR PATH Path Length: 25957 km

SIGNAL LEVELS IN dB ABOVE 0.5 µV

UTC	MUF	3.6 MHz	7.1 MHz	14.1 MHz	21.2 MHz	28.3 MHz
0000	15.3			4 A		
0030	20.3			4 A	1 C	
0100	22.4			3 A	0 B	-3 D
0130	21.9			-2 A	0 B	-3 D
0200	21.5			-8 A	-1 B	-4 D
0230	21.0			-10 A	-2 C	-4 D
0300	20.5				-2 C	-4 D
0330	19.9				-3 C	-5 D
0400	19.3				-3 D	
0430	18.5				-3 D	
0500	17.3				-4 D	
0530	16.1				-4 D	
0600	14.9					
0630	13.7					
0700	12.5					
0730	11.4					
0800	10.4					
0830	10.4					
0900	11.2					
0930	12.1			-8 D		
1000	13.2			-1 D		
1030	14.3			4 B		
1100	15.6			5 A	1 D	
1130	16.9			5 A	1 D	
1200	18.3			4 A	1 D	
1230	18.3			2 A	0 D	
1300	19.0			-1 A	-1 D	
1330	19.7			-7 A	-3 C	
1400	20.2				-4 C	
1430	20.6				-5 C	
1500	20.9				-6 C	
1530	20.6				-6 C	
1600	19.8				-7 C	
1630	18.8				-7 D	
1700	18.6				-8 D	
1730	18.2				-8 D	
1800	17.6				-8 D	
1830	16.9				-8 D	
1900	16.1				-7 D	
1930	15.2					
2000	14.2				-6 D	
2030	13.4				-6 D	
2100	11.5					
2130	9.7					
2200	8.4					
2230	8.0					
2300	8.6			1 D		
2330	10.8			3 D		

Availabilities A: 75 - 100% B: 50 - 75% C: 25 - 50% D: 1 - 25%
 Signal levels suppressed if below -10 dB or if predicted availability is zero

W6ELProp Short-Path Prediction for 04/23/2006

TERMINAL A: 42.29 N 83.00 W w8gf Sunrise/Set: 1044/0017 UTC Bearing to B: 5.1 deg
 TERMINAL B: 11.00 N 92.80 E Andaman & Nicobar Sunrise/Set: 2337/1157 UTC Bearing to A: 356.1 deg
 SSN: 16.3 Flux: 75.0 K: 2 THIS IS A POLAR PATH Path Length: 14075 km

SIGNAL LEVELS IN dB ABOVE 0.5 µV

UTC	MUF	3.6 MHz	7.1 MHz	14.1 MHz	21.2 MHz	28.3 MHz
0000	16.2			15 A		
0030	16.0			14 A	16 D	
0100	15.8			13 B	15 D	
0130	15.5			12 B	15 D	
0200	15.2			5 B	14 D	
0230	15.2			4 C		
0300	14.7			3 C		
0330	14.3			2 C		
0400	14.0			1 D		
0430	13.6			-5 D		
0500	13.0			-6 D		
0530	12.2			-6 D		
0600	11.5					
0630	11.0					
0700	10.5					
0730	9.9					
0800	9.6					
0830	10.7					
0900	11.8					
0930	12.4					
1000	13.0			9 D		
1030	12.9			10 D		
1100	13.3			11 C		
1130	13.9			12 C		
1200	14.4			13 B		
1230	14.8			14 B		
1300	15.2			14 B		
1330	15.5			15 A		
1400	15.9			15 A		
1430	16.1			9 B	16 D	
1500	16.3			9 B	16 D	
1530	16.6			9 B	16 D	
1600	16.8			9 B	16 D	
1630	17.0			9 B	16 D	
1700	17.1			9 B	16 D	
1730	17.0			9 A	16 D	
1800	16.9			9 A	16 D	
1830	17.0			9 B	16 D	
1900	16.4			10 B	16 D	
1930	15.3			10 C	16 D	
2000	14.8			10 C	17 D	
2030	13.8			15 C		
2100	13.0			17 C		
2130	11.7			17 D		
2200	11.0			17 D		
2230	11.1			17 D		
2300	11.3			17 D		
2330	13.2		-10 A	16 C		

Availabilities A: 75 - 100% B: 50 - 75% C: 25 - 50% D: 1 - 25%
 Signal levels suppressed if below -10 dB or if predicted availability is zero