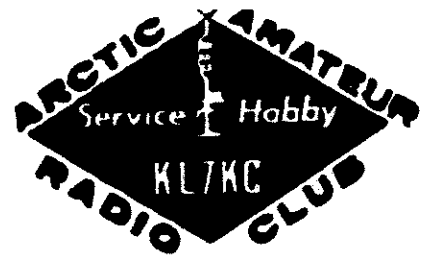


# Short Circuit



March 1987

Address correspondence to:  
Arctic Amateur Radio Club  
Newsletter Editor  
P.O. Box 83231  
Fairbanks, AK 99708

President - Bill Connor, AL7FQ	
Vice Pres - Kurt Torgerson, NL7GW	
Treasurer - Jim Gilmore, KL7SW	
Secretary - Lewis Overton, NOSN	

## Packet Radio

*Packet Racket*  
by Jerry Curry (KL7EDK)

I have received the final draw of contracts from Alascom for use of 3 sites to house permanent digipeaters. (Byers, Paxson & Tolsona). Leases should [have been] completed by March 1st.

Byers is scheduled for new equipment with some bells and whistles in July or August of this year. Tuneup of the Tolsona digipeater is on track so far. I am hoping to have it up by the 1st of April. (Payment for site use begins on that date.) All of the radio and packet gear is here and complete. Still lacking is the rack for mounting and the antenna.

## Repeaters

### *Repeaters*

The 34/94 autopatch is back on the air! With thanks to Ben Jason (AL7EZ) for his arrangements with the telephone company for billing, and apologies to the fine folks of Green Bay, Wisconsin, THE PATCH IS BACK.

And for more good news (unless you have spent a small fortune for tone access devices), 28/88 is expected to move to a

quieter location soon, and to drop the tone access requirement. Our wayfaring repeater isn't moving far -- just around the corner from where it is now. But with better boxes and some other technical magic (and a little warmer weather!) open access to wide area coverage should return to Fairbanks. Think warm.

34/94 Autopatch: \*79# up, \*70#-down.

28/88 Access: requires 103.5 Hz. tone

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For sale: Alliance model HD-73 rotator. In original box, never opened. Good for antennas to 10.7 sq. geet windload. George Winford (KL7VZ) 479-4433.

## Operating Events

### *Ice Festival*

The activities for the Ice Festival will continue through March, including the forthcoming parade, the Iceman race, QSO party, and other events. Contact Mike Drury (KL7GL) or Craig Bledsoe (K4TXK) for information.

### *Sked Request*

I have a letter from Dr. Tony Florencio (HI3AMF) who wants to make some skeds with KL7's on 40 and 80 meters so he can get his 5-band WAS. Maybe some of the

locals who are night owls (unlike yours truly) and have the 40 and 80 meter capabilities would like to pitch in and try to help.

George Winford (KL7VZ)

Training & Testing

*ARRL VEC*

Certification of ARRL examiners has been completed for the first group of VE's. Certificates and ID badges have been received. ARRL examinations will be conducted in parallel with Anchorage VEC examinations beginning within the next few months. Look for more information to be available by the next newsletter.

*Special Exam  
Wednesday, March 18*

An extra test session will be provided for hams wanting another shot at upgrading before Element 3 becomes 3a and 3b. In case you missed that piece of news, the FCC, on March 21, will implement changes to the examination procedure separating the technician and general written exam into two pieces. After the 21st, techs will be required to pass only element 3a. To continue to general, and additional element, known as 3b, will be required. Your last chance to take the combined element will be March 18. Location is not yet certain. Wigi Tozzi (AL7IH) will know by the test day.

Club News

*Directors' Meeting*

From the meeting of the Board of Directors of the Arctic Amateur Radio Club, held at 7 pm, Thursday, February 19. Billy Connor presiding. Kurt Torgerson recording minutes.

Approved a motion to reconnect the 34/94 repeater to the telephone line for autopatch service. Costs are to be paid by the club, with billing through Ben Jason's account.

Approved expenditure of \$100 (estimated) for materials needed to move and enclose the 28/88 repeater, including pipe for an antenna support.

Reviewed without action the proposed chapter 18 borough zoning ordinance requiring setback of towers from property lines.

Received committee reports on the Yukon Quest, Fairbanks Ice Festival, fundraising, packet radio, repeaters, novice contest and training/testing.

Approved Jim Dixon (NL7HI) as coordinator for the Yukon 800 this summer.

Endorsed cooperation with the Borealis Amateur Radio Club of North Pole and Eielson.

The next meeting of the Board of Directors will be held at 7 pm, Thursday, March 19 at room 243 Duckering, UAF.

*March Meeting and Program  
7:30 pm Friday, 6 Mar 87  
Geophysical Institute*

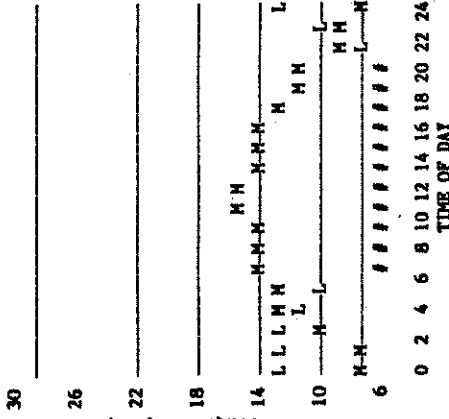
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*An Apology*

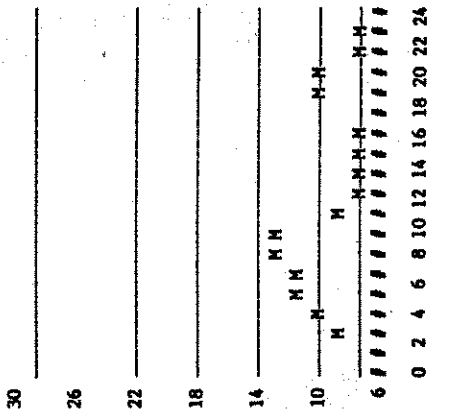
This issue of Short Circuit is almost a week late. It is also quite short by the common standard of the newsletter. Alas, Your fearless editor fell prey to "the bug" at a critical time in the production cycle for the paper. That, combined with pressures from the other job (the one that pays the bills), put the newsletter on the skids. With a bit of luck, it won't happen again.

PROPAGATION FORECAST FOR MARCH 1967  
Prepared by Rod Combellick, KL7JJA

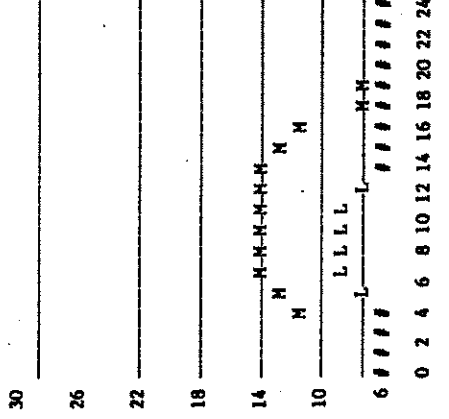
FAIRBANKS TO CENTRAL AFRICA  
TO: 9Q 10 DEGREES & 8273 MILES  
DATE: 3-15 TIME: AST  
FLUX: 72 PLOT: MUF



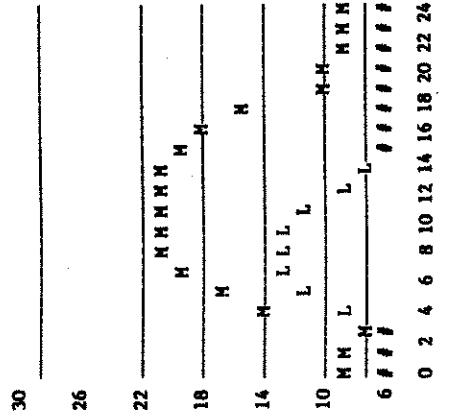
FAIRBANKS TO EUROPE  
TO: OE 12 DEGREES & 4641 MILES  
DATE: 3-15 TIME: AST  
FLUX: 72 PLOT: MUF



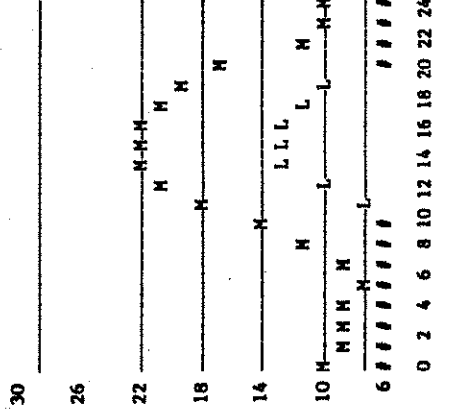
FAIRBANKS TO EASTERN U.S.  
TO: WJ 87 DEGREES & 3271 MILES  
DATE: 3-15 TIME: AST  
FLUX: 72 PLOT: MUF



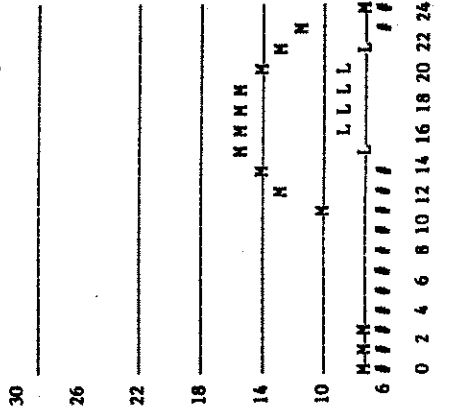
FAIRBANKS TO SOUTH AMERICA  
TO: CP 106 DEGREES & 6988 MILES  
DATE: 3-15 TIME: AST  
FLUX: 72 PLOT: MUF



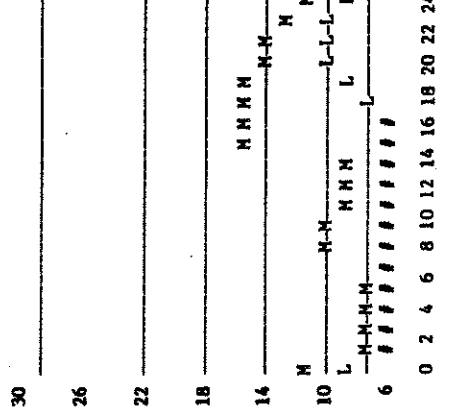
FAIRBANKS TO SOUTH PACIFIC  
TO: 3DZ 212 DEGREES & 5930 MILES  
DATE: 3-15 TIME: AST  
FLUX: 72 PLOT: MUF



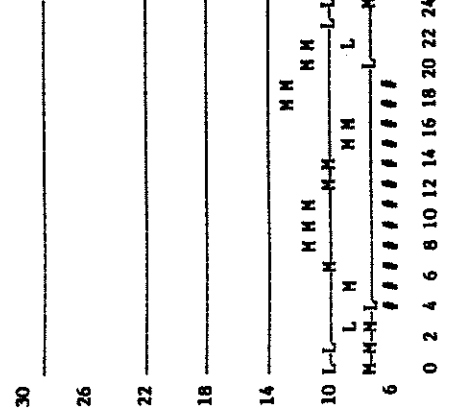
FAIRBANKS TO EASTERN ASIA  
TO: IH 284 DEGREES & 3736 MILES  
DATE: 3-15 TIME: AST  
FLUX: 72 PLOT: MUF



FAIRBANKS TO CENTRAL ASIA  
TO: 9N 314 DEGREES & 5422 MILES  
DATE: 3-15 TIME: AST  
FLUX: 72 PLOT: MUF



FAIRBANKS TO MIDWATER EAST  
TO: HZ 349 DEGREES & 6319 MILES  
DATE: 3-15 TIME: AST  
FLUX: 72 PLOT: MUF



27-day solar-flux forecast of Feb. 24, NOAA Space Environment Laboratory:  
Minimum forecast solar flux = 71 Maximum forecast solar flux = 72  
Average forecast S.F. = 72 (basis for plots)\*

M = Maximum Usable Frequency (MUF) — frequency at which a signal will propagate at least 50 percent of the time under 'normal' conditions.  
L = Lowest Usable Frequency (LUF) — lowest frequency that will support propagation along the path. Path is closed if L is higher than M.  
# = MUF or LUF off scale.

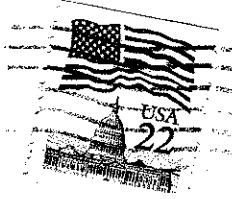
Geomagnetic Activity Range	Geomagnetic Level A*	AK**	Expected Propagation
Quiet	0-2	0-9	Above normal
Unsettled	2-3	7-15	Normal to high
Active	3-4	10-29	Normal to low
Minor storm	4-5	30-79	Below normal
Major storm	5+	80-159	Poor
		50+	159+

\*Obtain actual daily readings of flux, A and K indices from WJ at 18 past the hour. If actual flux is higher than 72, then MUF is higher than forecast.  
\*\*Obtain actual daily readings of AK index from 352-2398 in Anchorage (recording).

| Calendar of Upcoming Club Activities |

Ham for lunch	Wednesdays	noon-ish	Bakery on College Road
Westlink News	Sundays	9 pm	146.88 (146.94 alt)
Ice Festival	Month of Mar		On Air -- Fairbanks
Meeting	Friday Mar 6	7:30 pm	UAF Geophysical Inst.
Ham Exam	Saturday Mar 7	1 pm	Room 243 Duckering UAF
Special Exam	Wednesday Mar 18	7 pm ???	Location uncertain UAF
Board Meeting	Thursday Mar 19	7 pm	Room 243 Duckering UAF

Arctic Amateur Radio Club  
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9/30/87

99708