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SUBJECT:
FORWARDING FIGURES CONSISTING OF INFO RE FLUX MAPS TAKEN DURING THE STARTUP OF CYCLE 8.

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LEON D. WHITE, JR.
VICE PRESIDENT

TELEPHONE
AREA CODE 716 546-2700

August 2, 1978

Director of Nuclear Reactor Regulation
Attention: Mr. D. L. Ziemann, Chief
Operating Reactors Branch No. 2
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Ziemann:

During conversations with members of the NRC staff, a request was made for additional detail on the flux maps taken during the startup of Cycle 8. Attached are five figures which illustrate measured assembly powers and a comparison between measured assembly power and the predicted assembly power for the following conditions:

a.	Hot Zero Power, All Rods Out	(Figure 1)
b.	Hot Zero Power, D bank in	(Figure 2)
c.	25% Power	(Figure 3)
d.	50% Power	(Figure 4)
e.	80% Power	(Figure 5)

Very truly yours,

L. D. White, Jr.

A001
S 1/1

Cycle 8 - Flux Map VIII - 1

Hot zero power, D bank @ 209 steps

ROCHESTER GAS AND ELECTRIC CORPORATION

CORE MAP

Measured $F^N_{\Delta H}$

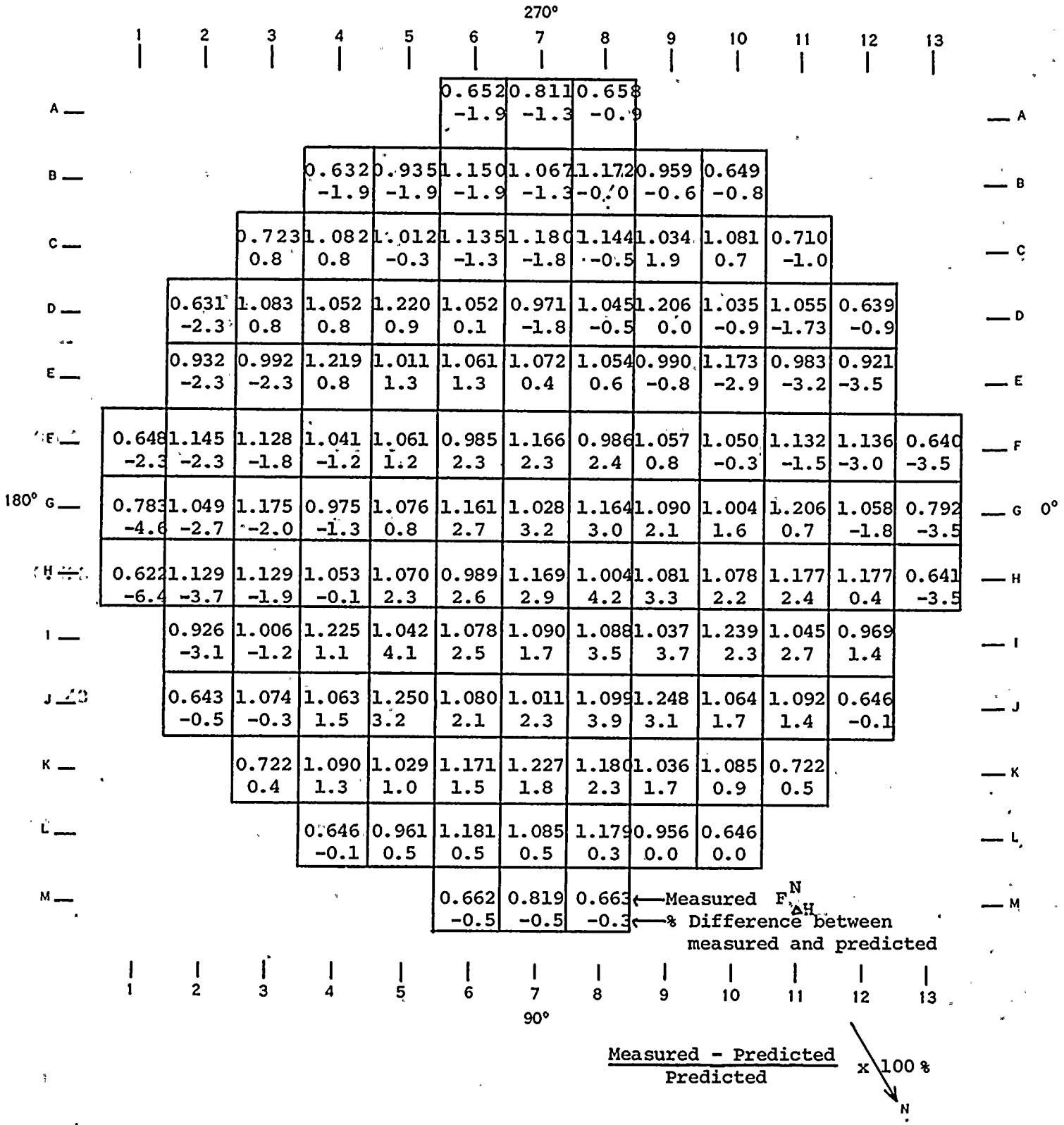

FIGURE 1

47-17

Cycle 8 - Flux Map VIII

Hot Zero Power, D bank inserted

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CORE MAP

Measured $F^N_{\Delta H}$

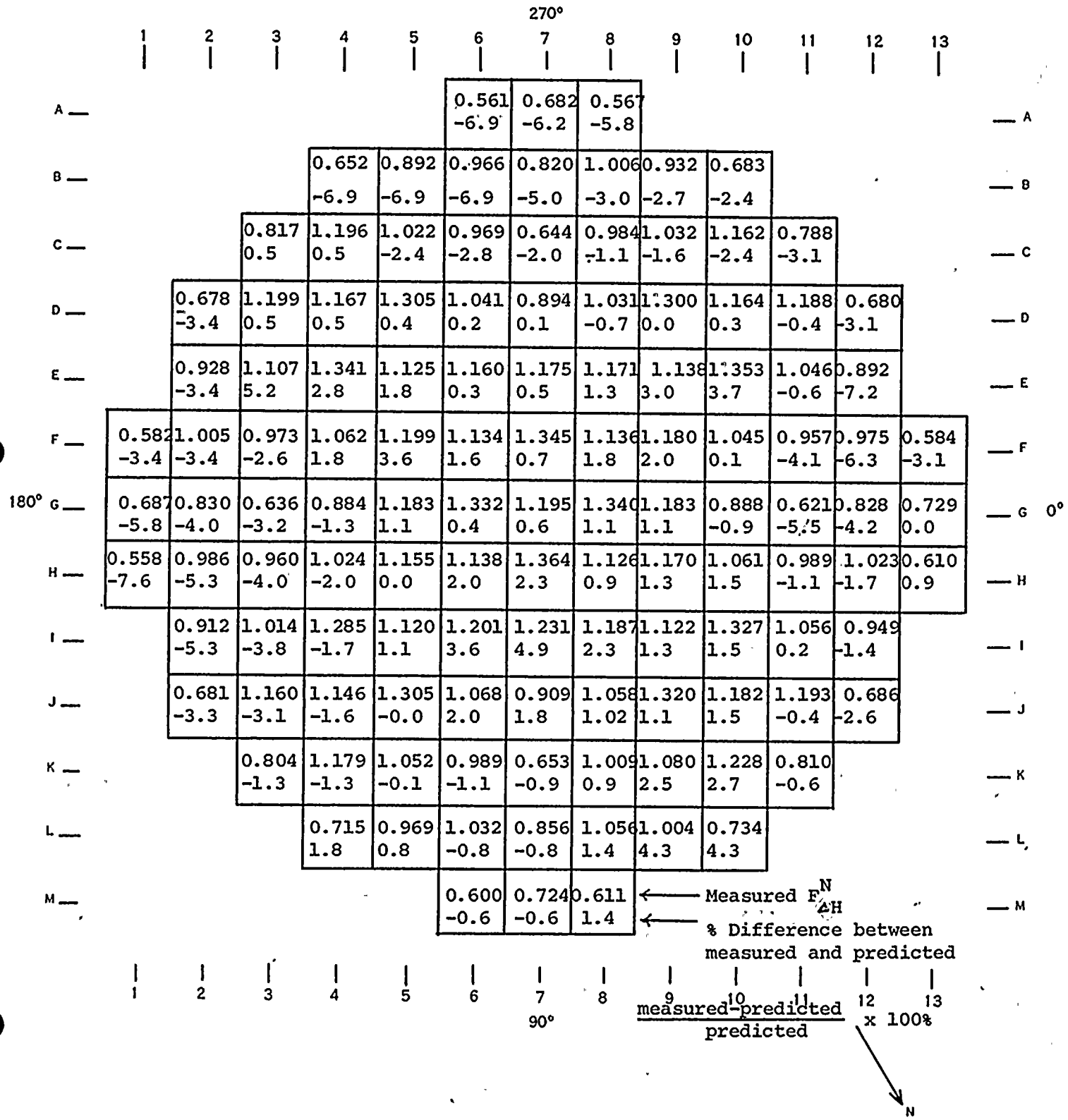


Figure 2

47-17

Cycle 8 - Flux Map VIII -

25% Power, D bank @ 175 steps

ROCHESTER GAS AND ELECTRIC CORPORATION

CORE MAP

Measured $F^N_{\Delta H}$

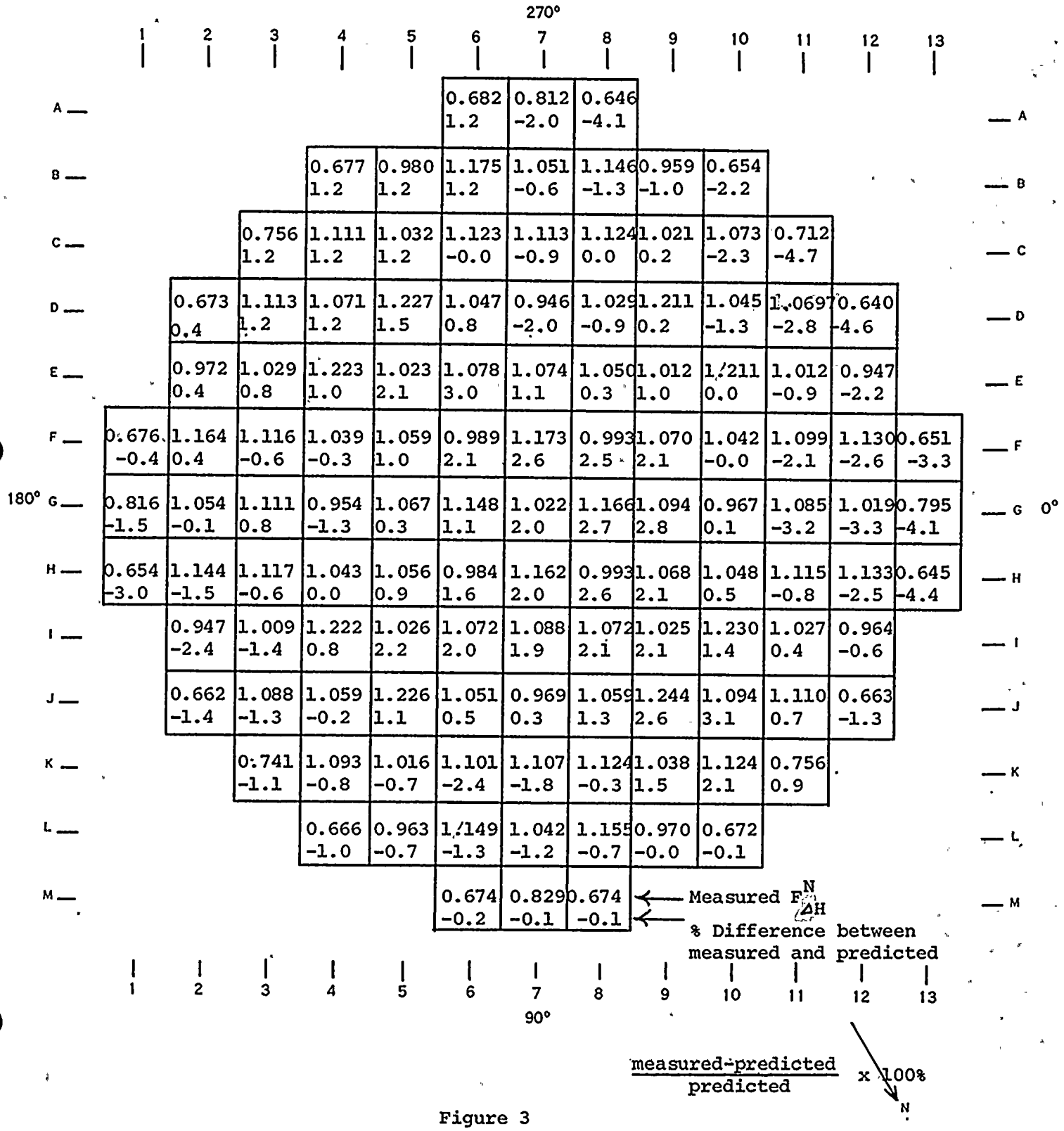


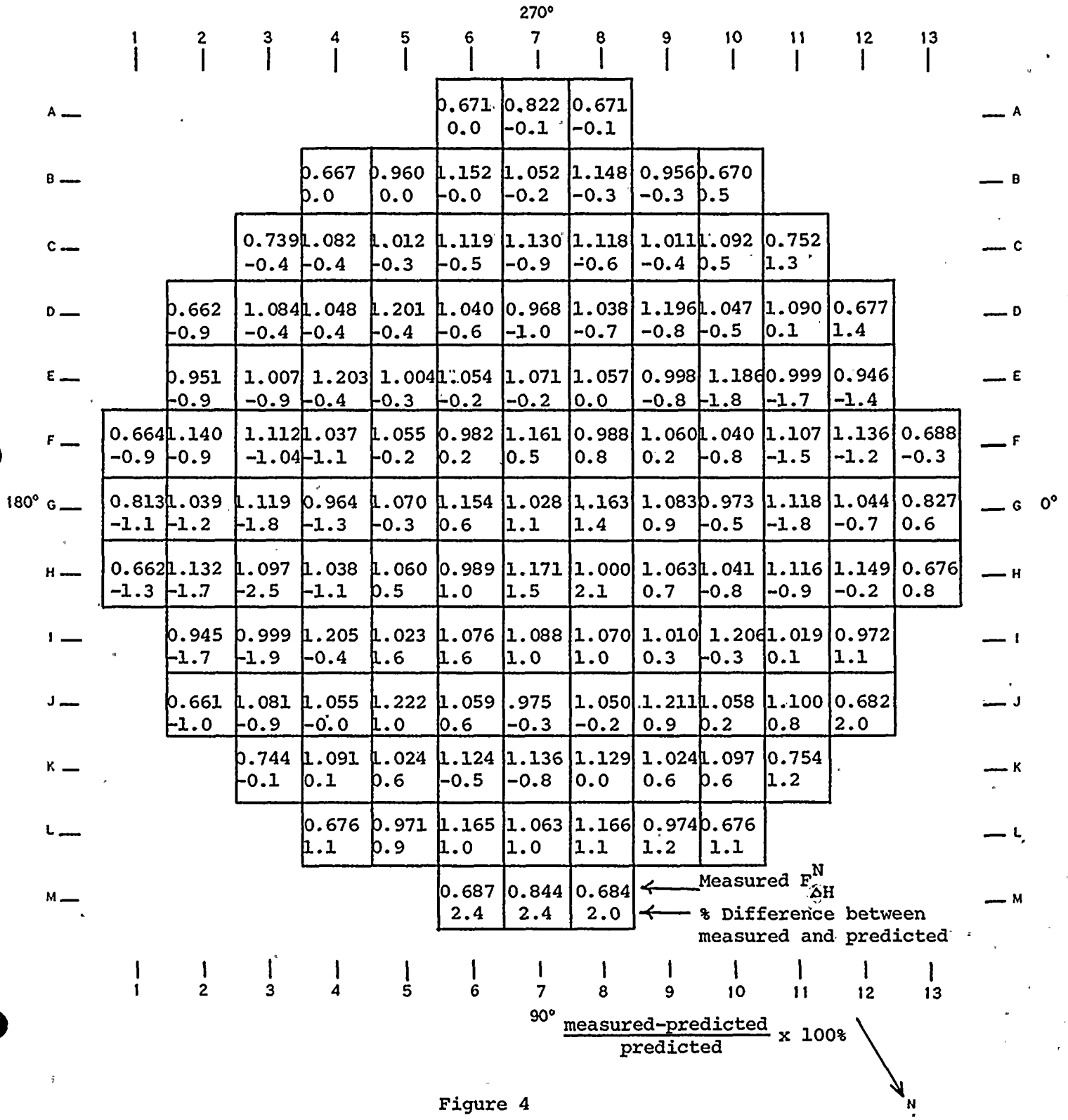
Figure 3

Cycle 8 - Flux Map VIII - 4
50% power, D bank @ 182 steps

ROCHESTER GAS AND ELECTRIC CORPORATION

CORE MAP

Measured $F^N_{\Delta H}$



	1	2	3	4	5	6	7	8	9	10	11	12	13
A						0.671 0.0	0.822 -0.1	0.671 -0.1					
B				0.667 0.0	0.960 0.0	1.152 -0.0	1.052 -0.2	1.148 -0.3	0.956 -0.3	0.670 0.5			
C			0.739 -0.4	1.082 -0.4	1.012 -0.3	1.119 -0.5	1.130 -0.9	1.118 -0.6	1.011 -0.4	1.092 0.5	0.752 1.3		
D		0.662 -0.9	1.084 -0.4	1.048 -0.4	1.201 -0.4	1.040 -0.6	0.968 -1.0	1.038 -0.7	1.196 -0.8	1.047 -0.5	1.090 0.1	0.677 1.4	
E		0.951 -0.9	1.007 -0.9	1.203 -0.4	1.004 -0.3	1.054 -0.2	1.071 -0.2	1.057 0.0	0.998 -0.8	1.186 -1.8	0.999 -1.7	0.946 -1.4	
F	0.664 -0.9	1.140 -0.9	1.112 -1.04	1.037 -1.1	1.055 -0.2	0.982 0.2	1.161 0.5	0.988 0.8	1.060 0.2	1.040 -0.8	1.107 -1.5	1.136 -1.2	0.688 -0.3
G	0.813 -1.1	1.039 -1.2	1.119 -1.8	0.964 -1.3	1.070 -0.3	1.154 0.6	1.028 1.1	1.163 1.4	1.083 0.9	0.973 -0.5	1.118 -1.8	1.044 -0.7	0.827 0.6
H	0.662 -1.3	1.132 -1.7	1.097 -2.5	1.038 -1.1	1.060 0.5	0.989 1.0	1.171 1.5	1.000 2.1	1.063 0.7	1.041 -0.8	1.116 -0.9	1.149 -0.2	0.676 0.8
I		0.945 -1.7	0.999 -1.9	1.205 -0.4	1.023 1.6	1.076 1.6	1.088 1.0	1.070 1.0	1.010 0.3	1.206 -0.3	1.019 0.1	0.972 1.1	
J		0.661 -1.0	1.081 -0.9	1.055 -0.0	1.222 1.0	1.059 0.6	.975 -0.3	1.050 -0.2	1.211 0.9	1.058 0.2	1.100 0.8	0.682 2.0	
K			0.744 -0.1	1.091 0.1	1.024 0.6	1.124 -0.5	1.136 -0.8	1.129 0.0	1.024 0.6	1.097 0.6	0.754 1.2		
L				0.676 1.1	0.971 0.9	1.165 1.0	1.063 1.0	1.166 1.1	0.974 1.2	0.676 1.1			
M						0.687 2.4	0.844 2.4	0.684 2.0					

Figure 4

Cycle 8 Flux Map VIII - 5

80% Power, D bank @ 210 steps

ROCHESTER GAS AND ELECTRIC CORPORATION

CORE MAP

Measured $F^N_{\Delta H}$

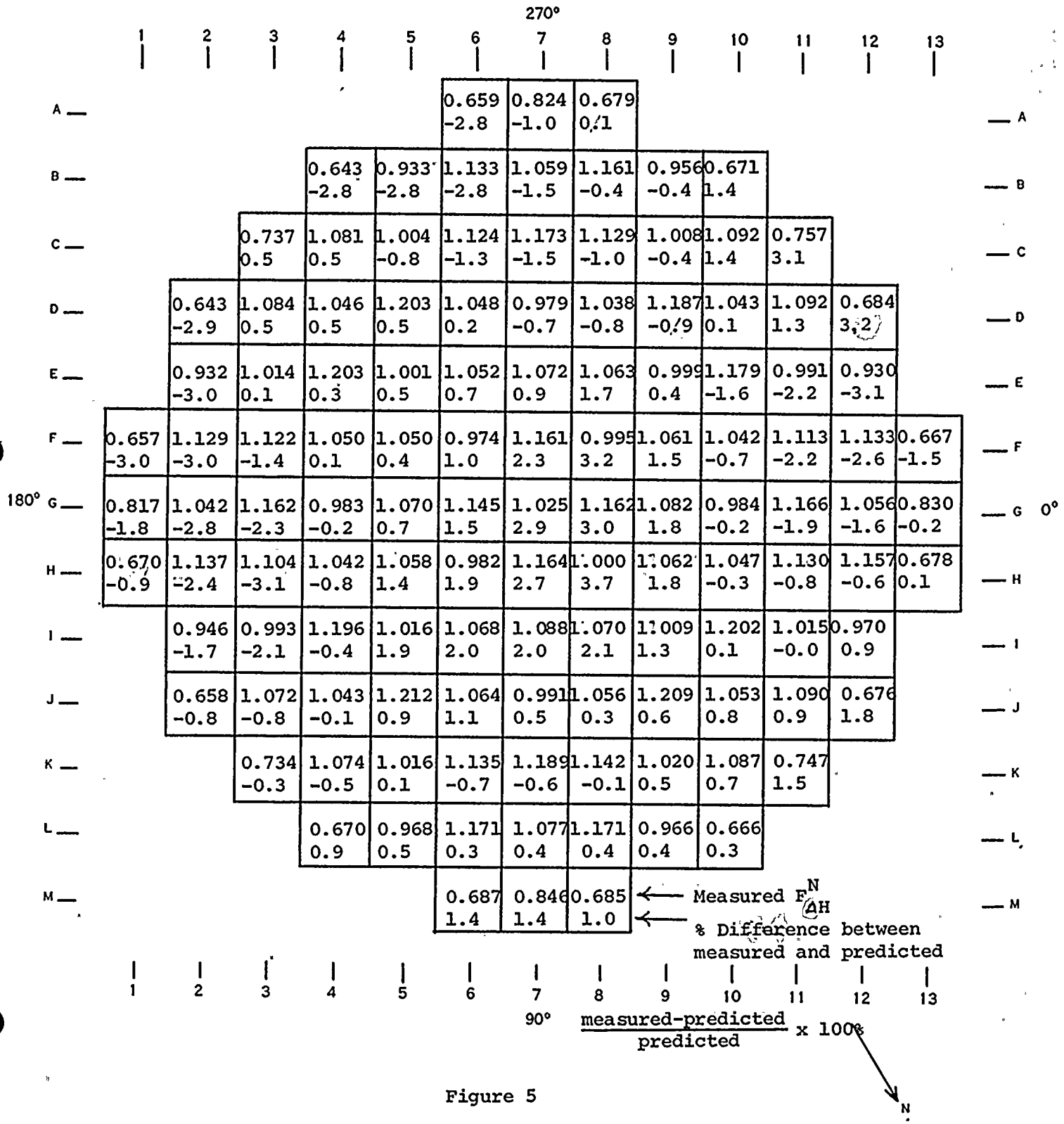


Figure 5