

## PROTEM

### MOVING TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY  
SECONDARY FIELD

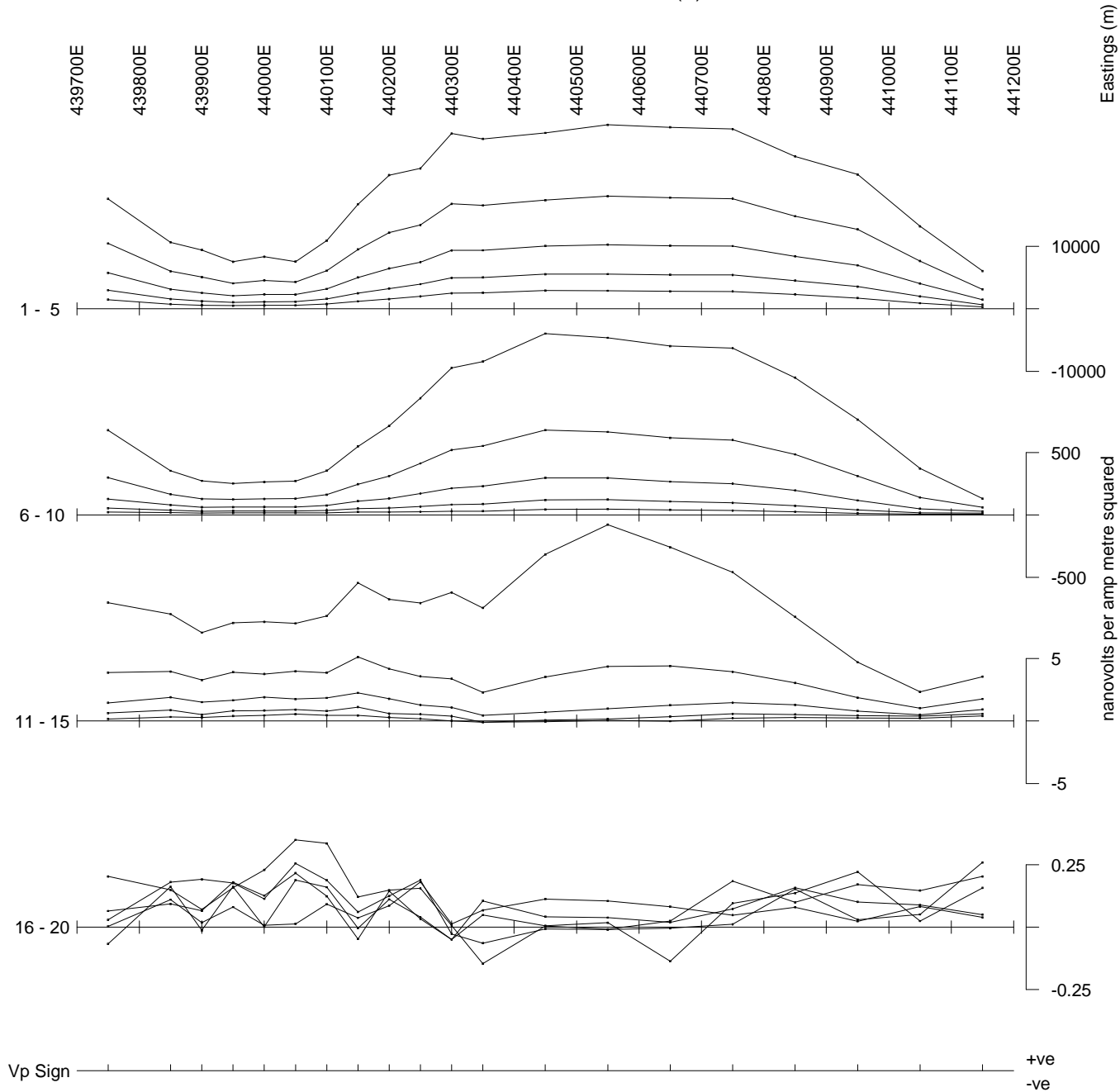
TIME DERIVATIVE OF FLUX DENSITY(B')

TX LOOP SIZE : 100m x 100m  
 TX TURN OFF TIME : 0.0900 milliseconds  
 FIRST GATE TIME : 881.300 ms after ramp  
 CURRENT : 17.50 amps  
 FREQUENCY : 2.50 Hz  
 INTEGRATION TIME : 60 seconds  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1 : 10000  
 SURVEYED BY : RJP  
 DATE : 12/05/2001

PROJECT NO.  
3-694

CLIENT : Noranda Pacific Pty Ltd  
 PROJECT : Middle Creek  
 AREA : Cloncurry, Qld  
 LINE : 7764550N Z-Component

VERTICAL COMPONENT B'(Z)



PROTEM

MOVING  
TRANSMITTER  
SURVEY

ELECTROMOTIVE FORCE INDUCED BY  
SECONDARY FIELD

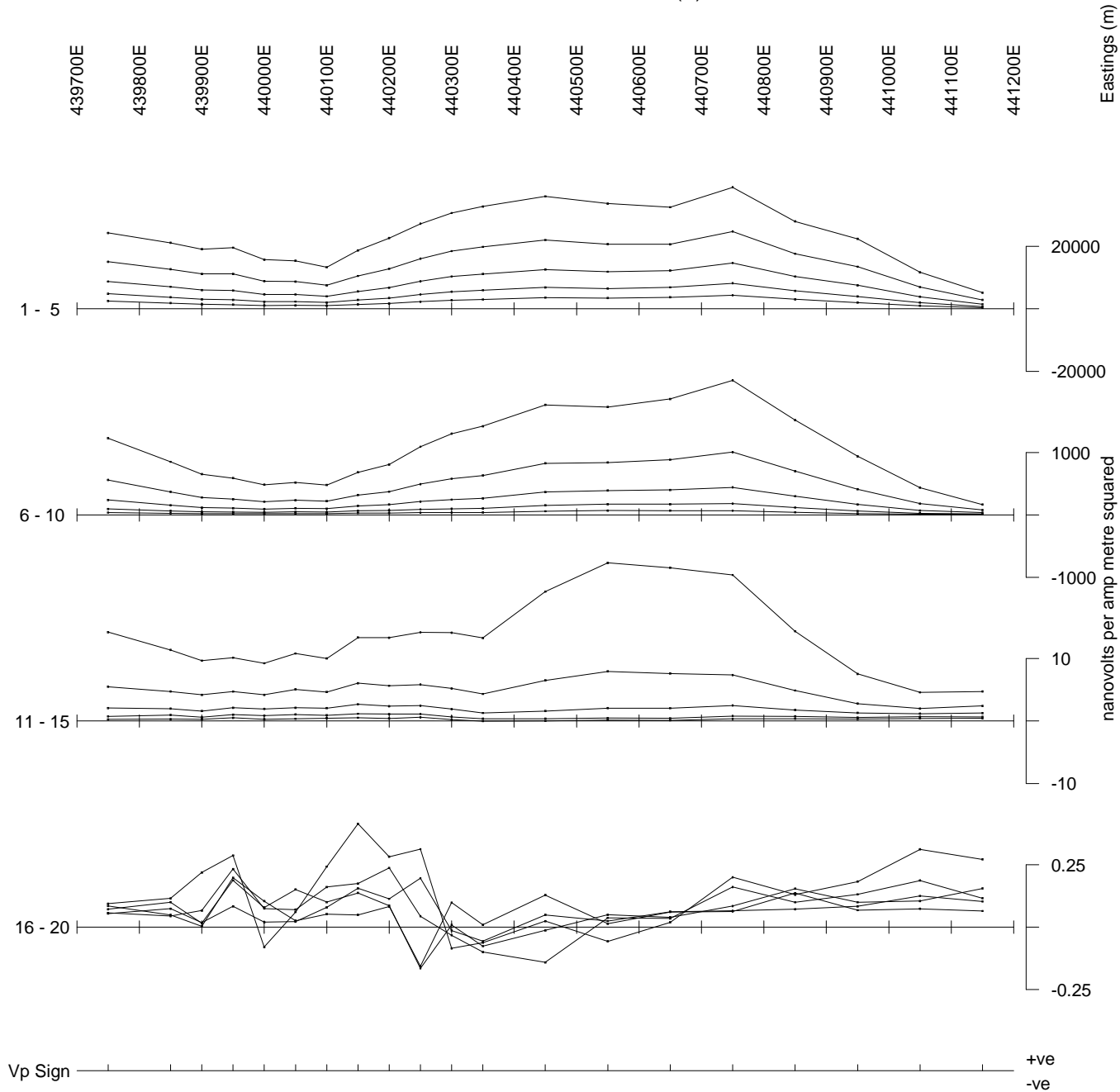
TIME DERIVATIVE OF FLUX DENSITY(B')

TX LOOP SIZE : 100m x 100m  
 TX TURN OFF TIME : 0.1300 milliseconds  
 FIRST GATE TIME : 881.300 ms after ramp  
 CURRENT : 19.00 amps  
 FREQUENCY : 2.50 Hz  
 INTEGRATION TIME : 60 seconds  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1 : 10000  
 SURVEYED BY : RJP  
 DATE : 09/05/2001

PROJECT NO.  
3-694

CLIENT : Noranda Pacific Pty Ltd  
 PROJECT : Middle Creek  
 AREA : Cloncurry, Qld  
 LINE : 7764650N Z-Component

VERTICAL COMPONENT B'(Z)



PROTEM

MOVING TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

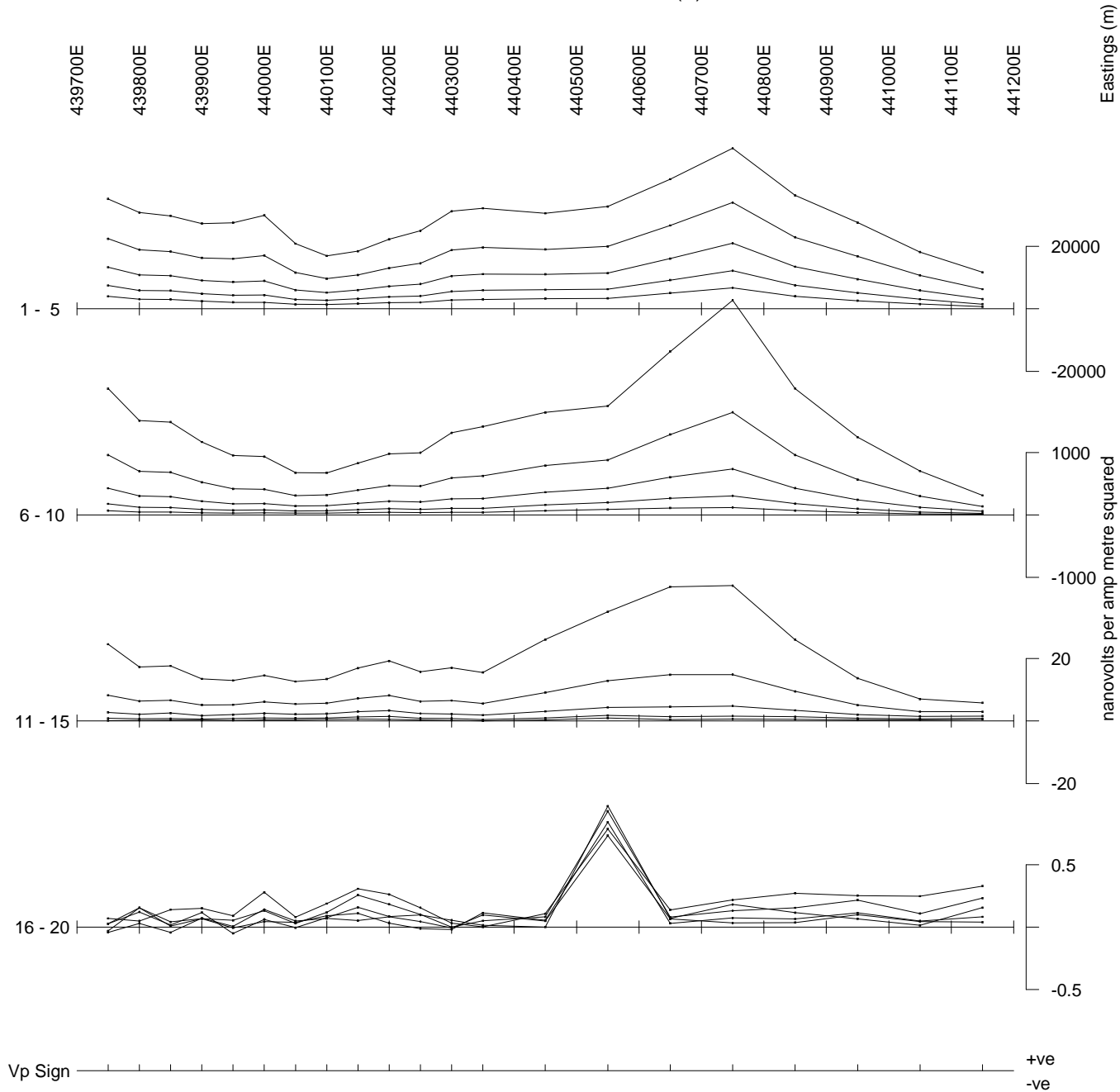
TIME DERIVATIVE OF FLUX DENSITY(B')

TX LOOP SIZE : 100m x 100m  
 TX TURN OFF TIME : 0.1300 milliseconds  
 FIRST GATE TIME : 881.300 ms after ramp  
 CURRENT : 19.00 amps  
 FREQUENCY : 2.50 Hz  
 INTEGRATION TIME : 60 seconds  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1 : 10000  
 SURVEYED BY : RJP  
 DATE : 09/05/2001

PROJECT NO.  
3-694

CLIENT : Noranda Pacific Pty Ltd  
 PROJECT : Middle Creek  
 AREA : Cloncurry, Qld  
 LINE : 7764750N Z-Component

VERTICAL COMPONENT B'(Z)



PROTEM

MOVING TRANSMITTER SURVEY

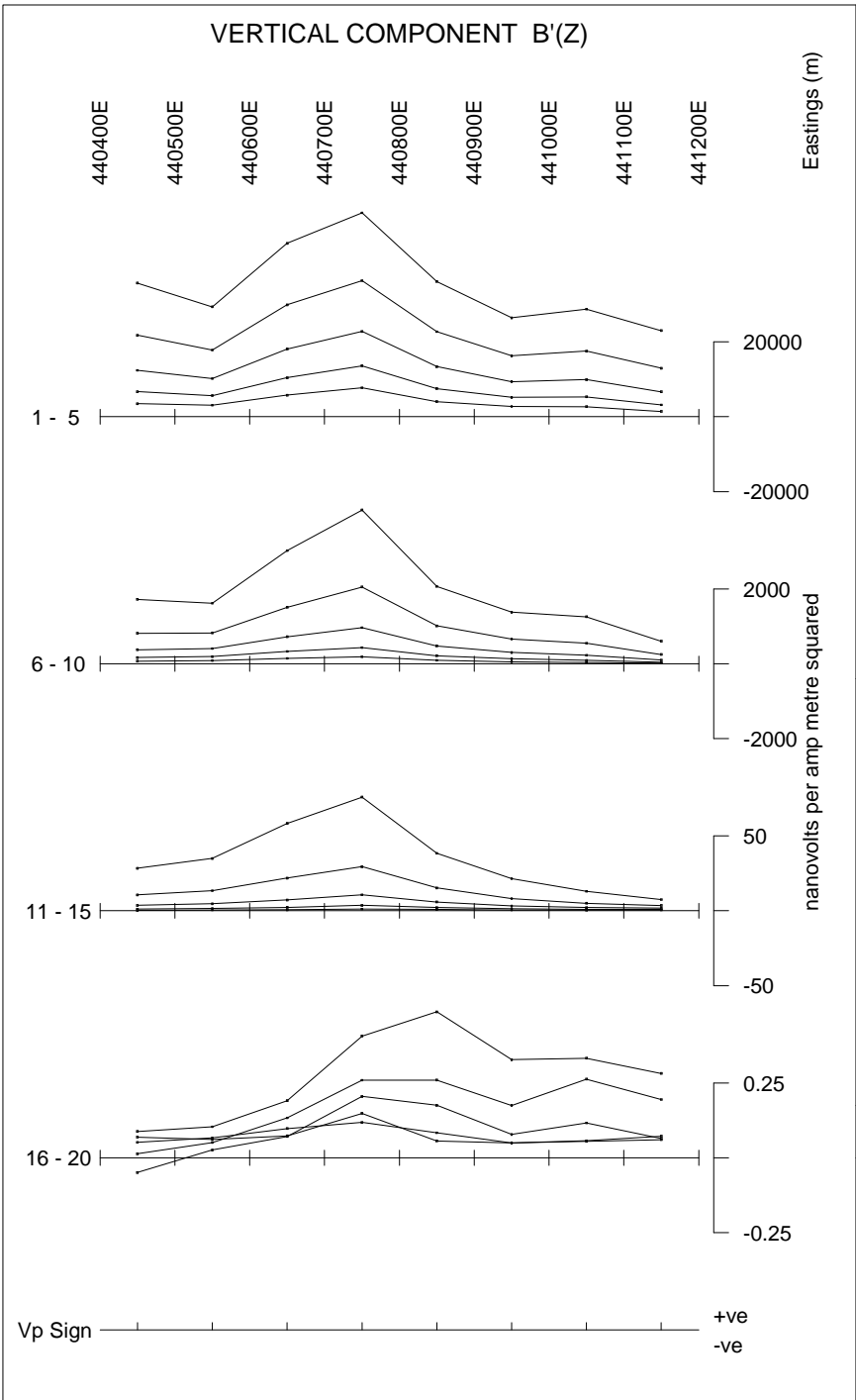
ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY(B')

TX LOOP SIZE : 100m x 100m  
 TX TURN OFF TIME : 0.0900 milliseconds  
 FIRST GATE TIME : 881.300 ms after ramp  
 CURRENT : 19.50 amps  
 FREQUENCY : 2.50 Hz  
 INTEGRATION TIME : 60 seconds  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1 : 10000  
 SURVEYED BY : RJP  
 DATE : 10/05/2001

PROJECT NO.  
3-694

CLIENT : Noranda Pacific Pty Ltd  
 PROJECT : Middle Creek  
 AREA : Cloncurry, Qld  
 LINE : 7764850N Z-Component



## PROTEM

### MOVING TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY  
SECONDARY FIELD

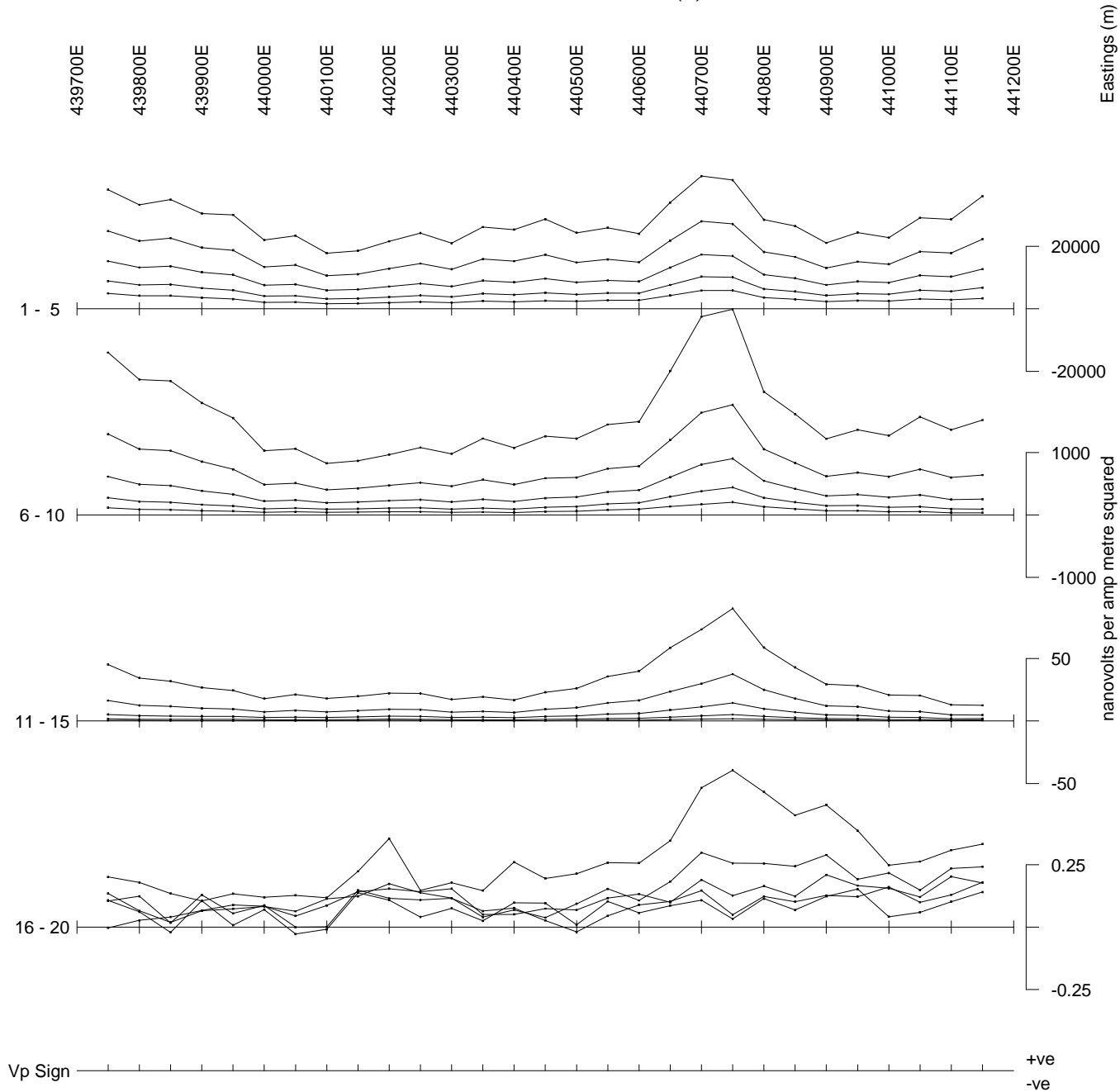
TIME DERIVATIVE OF FLUX DENSITY(B')

TX LOOP SIZE : 100m x 100m  
 TX TURN OFF TIME : 0.0900 milliseconds  
 FIRST GATE TIME : 881.300 ms after ramp  
 CURRENT : 19.00 amps  
 FREQUENCY : 2.50 Hz  
 INTEGRATION TIME : 60 seconds  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1 : 10000  
 SURVEYED BY : RJP  
 DATE : 10/05/2001

PROJECT NO.  
3-694

CLIENT : Noranda Pacific Pty Ltd  
 PROJECT : Middle Creek  
 AREA : Cloncurry, Qld  
 LINE : 7764950N Z-Component

VERTICAL COMPONENT B'(Z)



PROTEM

MOVING TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

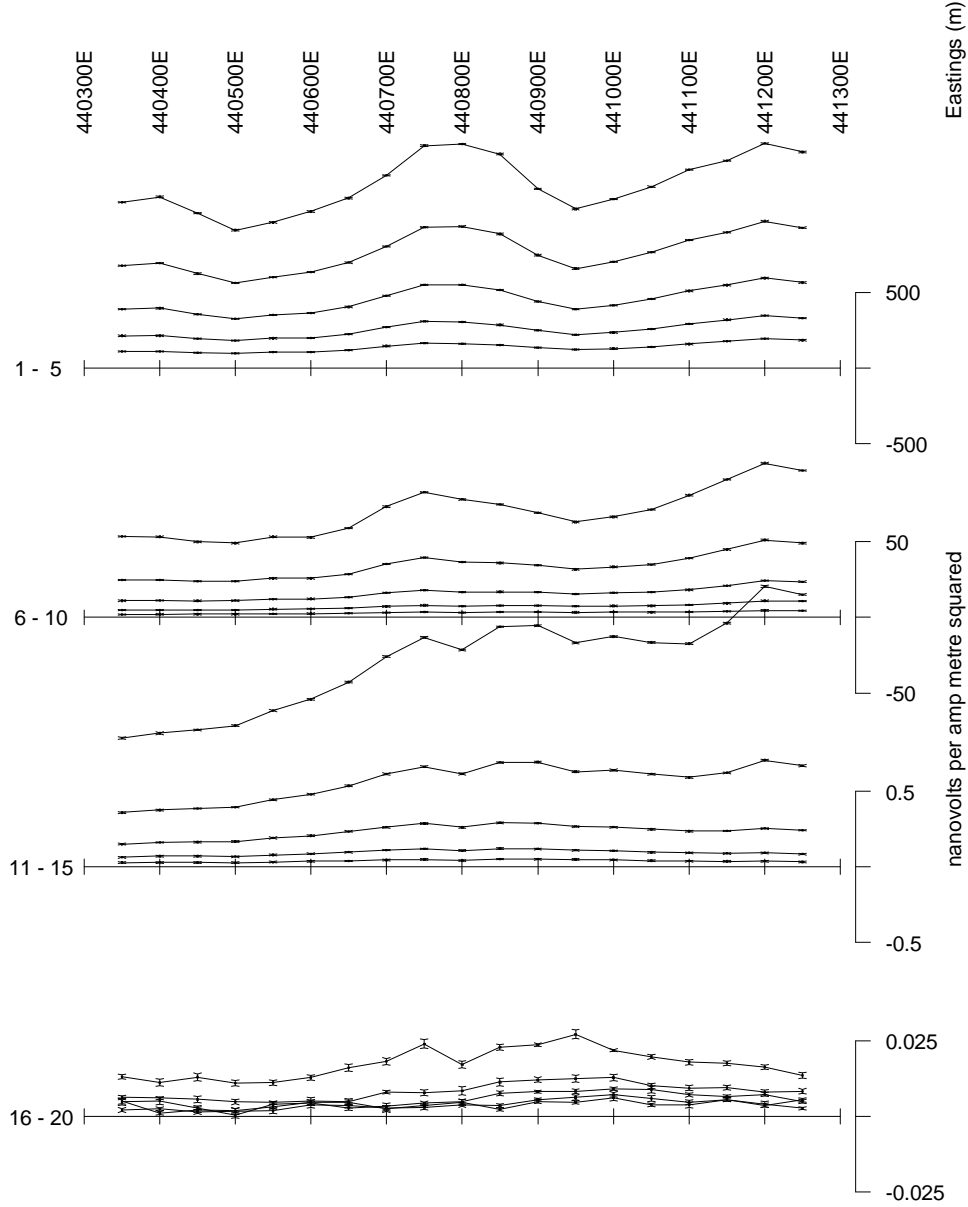
TIME DERIVATIVE OF FLUX DENSITY(B')

TX LOOP SIZE : 100m x 100m  
 TX TURN OFF TIME : 0.0900 milliseconds  
 FIRST GATE TIME : 881.300 ms after ramp  
 CURRENT : 19.50 amps  
 FREQUENCY : 2.50 Hz  
 INTEGRATION TIME : 60 seconds  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1 : 10000  
 SURVEYED BY : RJP  
 DATE : 11/05/2001

PROJECT NO.  
3-694

CLIENT : Noranda Pacific Pty Ltd  
 PROJECT : Middle Creek  
 AREA : Cloncurry, Qld  
 LINE : 7765050N Z-Component

VERTICAL COMPONENT B'(Z)



PROTEM

MOVING TRANSMITTER SURVEY

ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY(B')

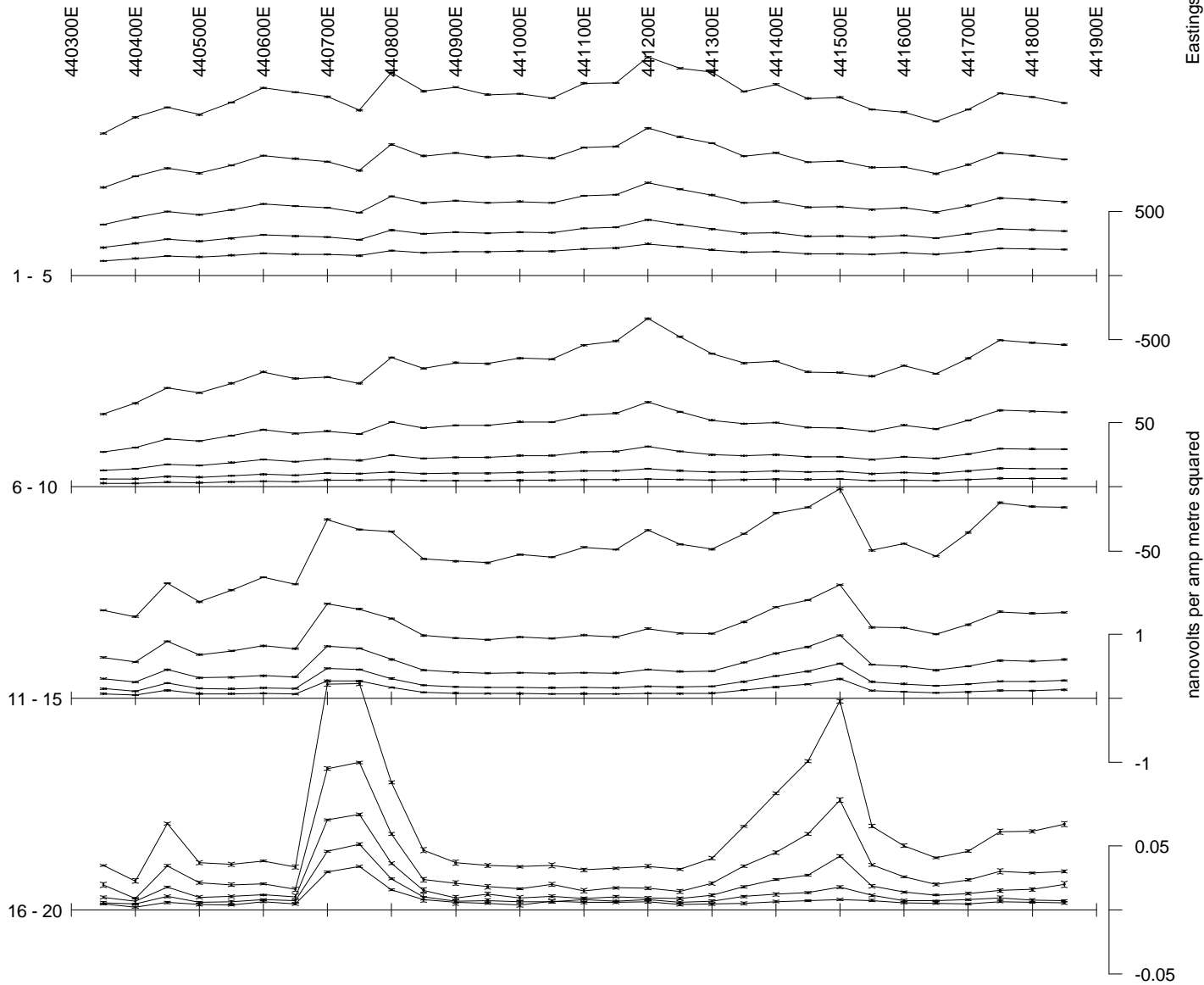
ERROR BARS REPRESENT 1 STANDARD DEVIATION / SQRT(N)

TX LOOP SIZE : 100m x 100m  
 TX TURN OFF TIME : 0.0850 milliseconds  
 FIRST GATE TIME : 881.300 ms after ramp  
 CURRENT : 18.50 amps  
 FREQUENCY : 2.50 Hz  
 INTEGRATION TIME : 60 seconds  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1 :10000  
 SURVEYED BY : RJP  
 DATE : 02/09/2001

PROJECT NO.  
3-704

CLIENT : Noranda Pacific Pty Ltd  
 PROJECT : Middle Creek  
 AREA : Cloncurry, Qld  
 LINE : 7765350N Z-Component

### VERTICAL COMPONENT B'(Z)



## PROTEM

### MOVING TRANSMITTER SURVEY

#### ELECTROMOTIVE FORCE INDUCED BY SECONDARY FIELD

TIME DERIVATIVE OF FLUX DENSITY(B)

ERROR BARS REPRESENT  
1 STANDARD DEVIATION / SQRT(N)

TX LOOP SIZE : 100m x 100m  
 TX TURN OFF TIME : 0.0850 milliseconds  
 FIRST GATE TIME : 881.300 ms after ramp  
 CURRENT : 18.50 amps  
 FREQUENCY : 2.50 Hz  
 INTEGRATION TIME : 60 seconds  
 SYNC MODE : CRYSTAL  
 HORIZONTAL SCALE : 1 :10000  
 SURVEYED BY : RJP  
 DATE : 02/09/2001

PROJECT NO.  
3-704

CLIENT : Noranda Pacific Pty Ltd  
 PROJECT : Middle Creek  
 AREA : Cloncurry, Qld  
 LINE : 7765750N Z-Component