

GEOLOGICAL SURVEY OF CANADA



COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

AIRBORNE GAMMA RAY SPECTROMETER SURVEY

**PROSPEROUS LAKE - HIDDEN LAKE AREA
NORTHWEST TERRITORIES**

1988

Stacked Profiles

**NTS: 85-I/12; J/9 (E1/2) and
Parts of 85-I/5,6,11,13,14; J/8**

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GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
OTTAWA

**LEVÉ GÉOPHYSIQUE AÉRIEN DE RÉGION
PROSPEROUS LAKE - HIDDEN LAKE DANS LES T.N.-O.**

La Commission géologique du Canada a effectué en 1987 un levé géophysique aérien multiparamétrique dans la région du Prosperous Lake - Hidden Lake (Territoires du Nord-Ouest). La carte-index montre l'étendue du secteur d'étude. Le levé visait avant tout à obtenir des données spectrométriques quantitatives de rayons gamma. Des données sur le champ électromagnétique VLF et sur le champ magnétique total ont aussi été recueillies.

Les données sont présentées sous forme d'ensemble de onze cartes polychromes à 1/150 000, soit le débit d'exposition, le potassium, les concentrations en équivalent uranium et en équivalent thorium, les rapports eU/eTh, eU/K et eTh/K, la carte des radioéléments ternaires (J. Broome, J.M. Carson, J.A. Grant et K.L. Ford, 1987, *A Modified Ternary Radioelement Mapping Technique and its Application to the South Coast of Newfoundland, Etude de la CGC 87-14*), la carte du champ magnétique total et la carte du champ EM total à très basse fréquence et la carte du quadrature VLF.

Toutes les données ont été recueillies à une seconde d'intervalle. Les mesures ont été effectuées à l'aide d'un spectromètre à 256 canaux comportant 12 détecteurs au NaI (TI) mesurant 102 sur 102 sur 406 mm. L'appareil était opéré à une hauteur moyenne de 125 m au-dessus du sol, à une vitesse de 190 km/h. Les lignes de vol est-ouest respectaient un intervalle de 500 mètres entre elles. Les mesures magnétométriques aériennes ont été faites au moyen d'un magnétomètre aéroporté à proton modèle G-803 de marque Geometrics, selon une résolution de 1 gamma. Les mesures aériennes à très basse fréquence ont été effectuées à l'aide d'un appareil aéroporté VLF Totem 2A des Industries Herz, Ltée. Le champ électromagnétique primaire est produit par la station VLF NLK à Seattle (Washington).

Le potassium est mesuré directement à partir de photons de rayons gamma de 1,46 MeV émis par le ⁴⁰K. Par contre, l'uranium et le thorium sont mesurés indirectement à partir des photons de rayons gamma émis par des produits de filiation propres à leurs chaînes de désintégration respectives: le compte d'uranium est déterminé au moyen de photons d'environ 1,76 MeV émis par le ²¹⁴Pb alors que le compte de thorium est établi à partir de photons de 2,62 MeV provenant du ²⁰⁸Tl. Les fenêtres énergétiques utilisées sont les suivantes:

Potassium	⁴⁰ K	1,36 à 1,56 MeV
Uranium	²¹⁴ Pb	1,66 à 1,86 MeV
Thorium	²⁰⁸ Tl	2,41 à 2,81 MeV

Les comptes d'uranium, de thorium et de potassium ont été corrigés pour tenir compte des temps morts, des changements de température ambiante, du rayonnement de fond, de la diffusion spectrale et des écarts entre l'altitude réelle et l'altitude nominale du levé. Les données cartographiées présentent des concentrations moyennes de surface: la proportion d'affleurements, de morn-terrains, de régions couvertes par de la végétation ou par de l'eau et la quantité d'eau dans le sol peuvent tous influencer sur les résultats. Par conséquent, les concentrations indiquées sur les cartes sont généralement plus faibles que celles du socle rocheux.

Afin de déterminer les facteurs qui permettent de convertir les mesures aériennes en concentrations, on a comparé les taux de comptage obtenus au cours du levé aux taux mesurés au-dessus d'une bande d'essai de la région d'Ottawa pour laquelle les concentrations au sol étaient connues. Les facteurs de conversion utilisés sont les suivants:

1% de K	91,0 cps
1 ppm eU	9,1 cps
1 ppm eTh	7,0 cps

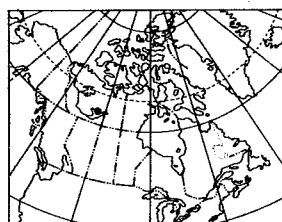
Le taux d'exposition, exprimé en micro-roentgens par heure (μ R/h), a été calculé à partir de concentrations connues de potassium, d'uranium et de thorium (Grasty, R.L., Carson, J.M., Charbonneau, B.W. et Holman, P.B. 1984. *Natural Background Radiation in Canada*. Commission géologique du Canada, Bulletin 360). On peut comparer ces données à celles exprimées auparavant en unités de concentration de radioélément (Ur) en considérant que 1 μ R/h équivaut à environ 1,67 Ur.

Pour obtenir des renseignements sur la disponibilité de cet dossier public, on peut écrire à l'endroit suivant: La Commission géologique du Canada, 601 rue Booth, Ottawa, Ontario, ou téléphone (613) 995-4342.

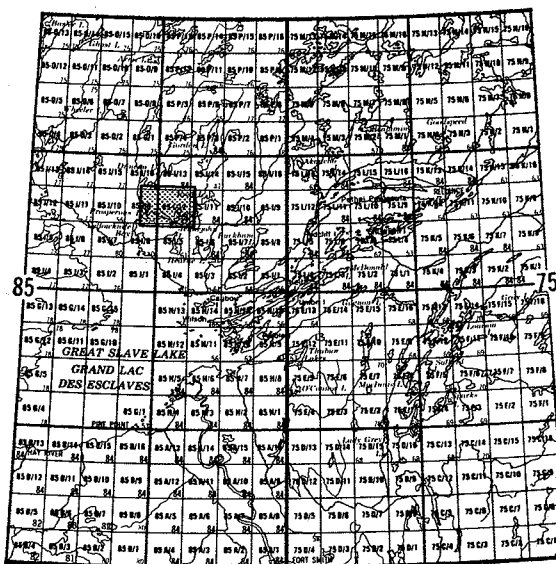
Le fond de carte provient de la Direction des levés et de la cartographie.

La cartographie a été exécutée par la Commission géologique du Canada.

Le levé aéroporté magnétique, VLF et de spectrométrie par rayons gamma a été effectué, compilé et défrayé par la Commission géologique du Canada



INDEX MAP



**AIRBORNE GEOPHYSICAL SURVEY
PROSPEROUS LAKE - HIDDEN LAKE AREA, N.W.T.**

In 1988 a multiparameter geophysical survey was flown by the Geological Survey of Canada in the Prosperous Lake - Hidden Lake area of the Northwest Territories. The area surveyed is shown on the index map. The main purpose of the survey was to acquire quantitative gamma ray spectrometric information. VLF electromagnetic and total field magnetic data were also recorded.

Data are presented as a set of eleven 1:150 000 colour maps (exposure rate, potassium, equivalent uranium and equivalent thorium concentrations, the eU/eTh, eU/K and eTh/K ratios, the ternary radioelement map (J. Broome, J.M. Carson, J.A. Grant and K.L. Ford, 1987 *A Modified Ternary Radioelement Mapping Technique and its Application to the South Coast of Newfoundland, GSC Paper 87-14*), the total magnetic field map and the VLF-EM total field and VLF quadrature maps.

All data were sampled at 1 second intervals. The airborne radiometric measurements were made using a 256 channel spectrometer, with twelve 102x102x406 mm NaI (TI) detectors, flown at a mean terrain clearance of 125 m at 190 km/h. East-west flight lines were at 500 metre line spacing. The airborne magnetometer measurements were made using a Geometrics Model G-803 Airborne Proton Magnetometer with a 1 gamma resolution. The airborne VLF measurements were obtained using a Herz Industries Ltd. Totem 2A airborne VLF system. The primary electromagnetic field is generated by VLF station NLK at Seattle, Washington.

Potassium is measured directly from the 1.46 MeV gamma ray photons emitted by ⁴⁰K, whereas uranium and thorium are measured indirectly from gamma ray photons emitted by daughter products in their decay chains. Uranium is monitored by means of gamma ray photons at approximately 1.76 MeV from ²¹⁴Pb, and thorium, from 2.62 MeV photons emitted by ²⁰⁸Tl. The energy windows used are as follows:

Potassium	⁴⁰ K	1.36-1.56 MeV
Uranium	²¹⁴ Pb	1.66-1.86 MeV
Thorium	²⁰⁸ Tl	2.41-2.81 MeV

Uranium, thorium and potassium counts have been corrected for dead time, ambient temperature changes, background radiation, spectral scattering and deviations of terrain clearance from the planned survey altitude. The data as presented represent an average surface concentration which is influenced by varying amounts of outcrop, overburden, vegetation, soil moisture and surface waters. As a result, the concentrations as shown are usually lower than the concentrations in the bedrock.

Factors for converting the airborne measurements to concentrations were determined by relating the airborne count rates to the known ground concentrations of a test strip in the Ottawa area. The factors used to convert the airborne measurements to ground concentrations are:

1% K	91.0 cps
1 ppm eU	9.1 cps
1 ppm eTh	7.0 cps

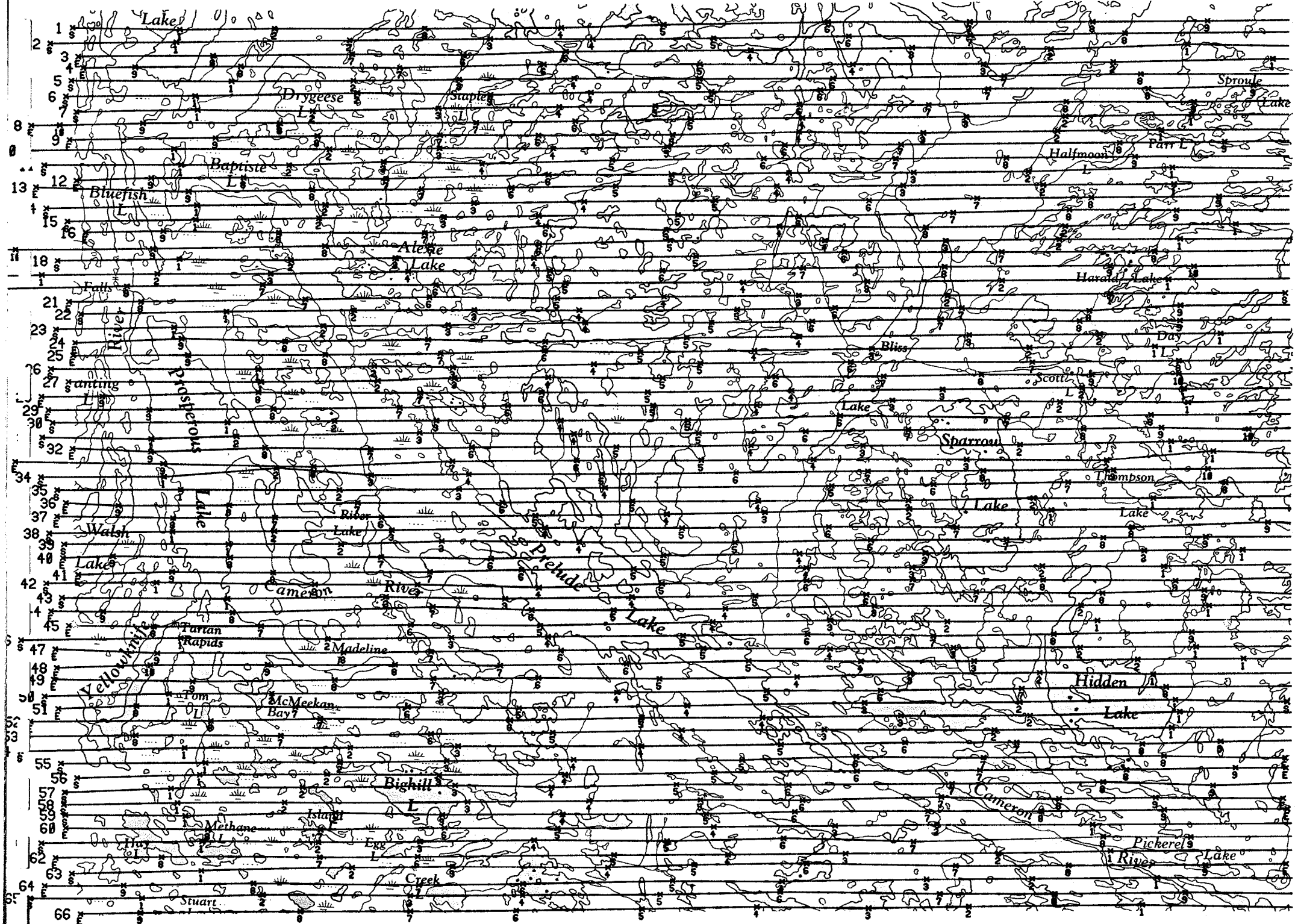
The exposure rate, in micro Roentgens per hour has been computed from the measured concentrations of potassium, uranium and thorium (Grasty, R.L., Carson, J.M., Charbonneau, B.W. and Holman, P.B., 1984, *Natural Background Radiation in Canada*, Geol. Sur. Can., Bull. 360). To compare these data with earlier total count maps expressed in Units of Radioelement concentrations (Ur), the conversion factor is 1 μ R/h=1.67 Ur.

Information regarding the availability of this Open File release may be obtained from: Geological Survey of Canada, 601 Booth St., Ottawa, Ontario, K1A 0E8. Telephone (613) 995-4342.

Base map material supplied by Surveys and Mapping Branch

Cartography by Geological Survey of Canada

Airborne gamma ray spectrometer, VLF and magnetic survey flown, compiled and funded by Geological Survey of Canada



Lake 010

Sproule Lake

Drygeese Lake

Stupple Lake

Halfmoon Lake

Pan Lake

Baptiste Lake

Bluefish Lake

Atle Lake

Harold Lake

Falls

Bliss Lake

Day Lake

Anting Lake

Scott Lake

Pastor Lake

Sparrow Lake

Lombson Lake

Walsh Lake

River Lake

Prehude Lake

Lake

Lake

Lake

Cameron River

Prehude Lake

Lake

Tartan Rapids

Madeline Lake

Hidden Lake

Yellowknife River

McMeekan Bay

Lake

Bighill Lake

Cameron River

Methane Lake

Island

Pickerele Lake

Thy Lake

Egg Lake

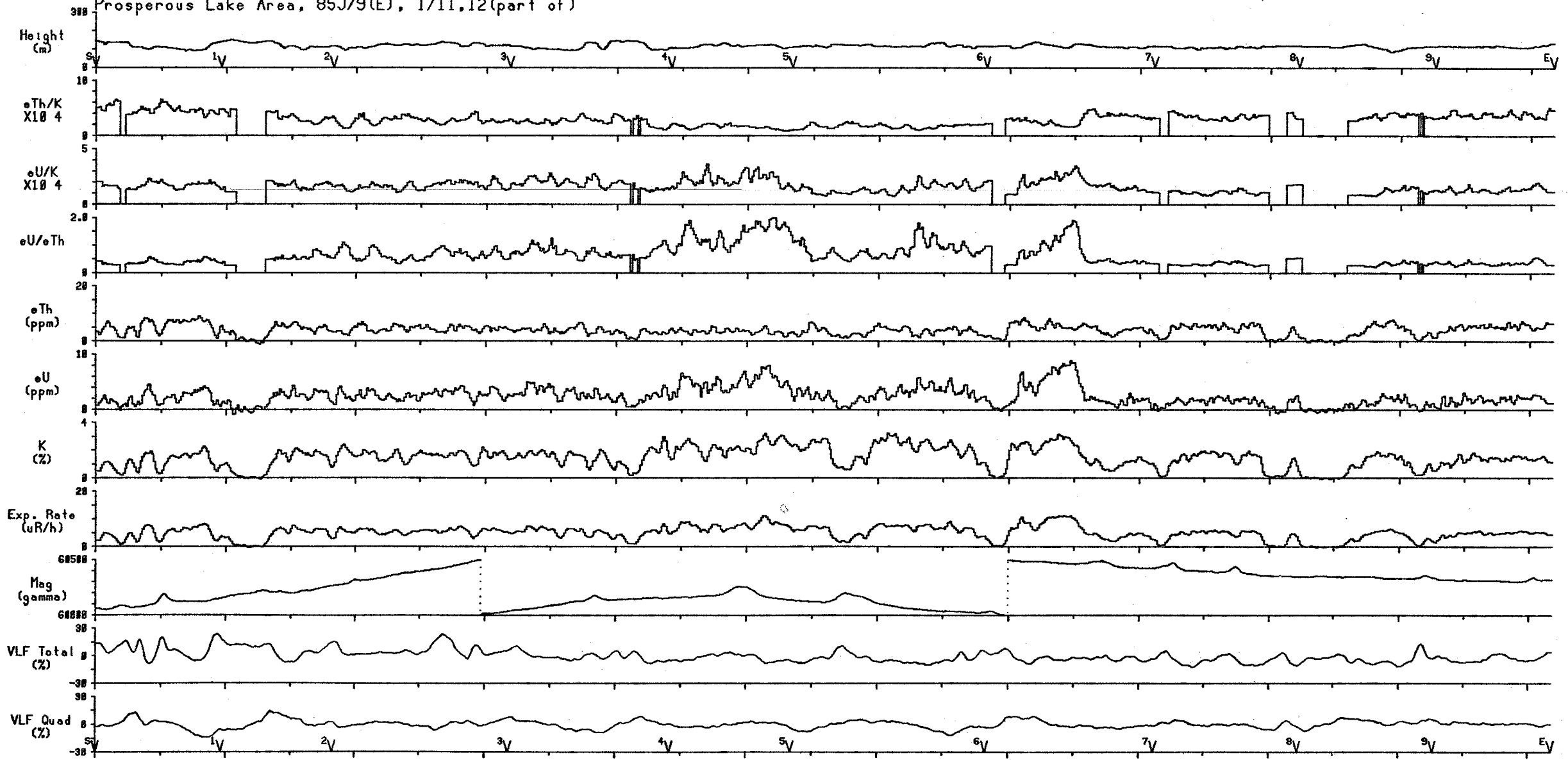
River

Creek

Stuart

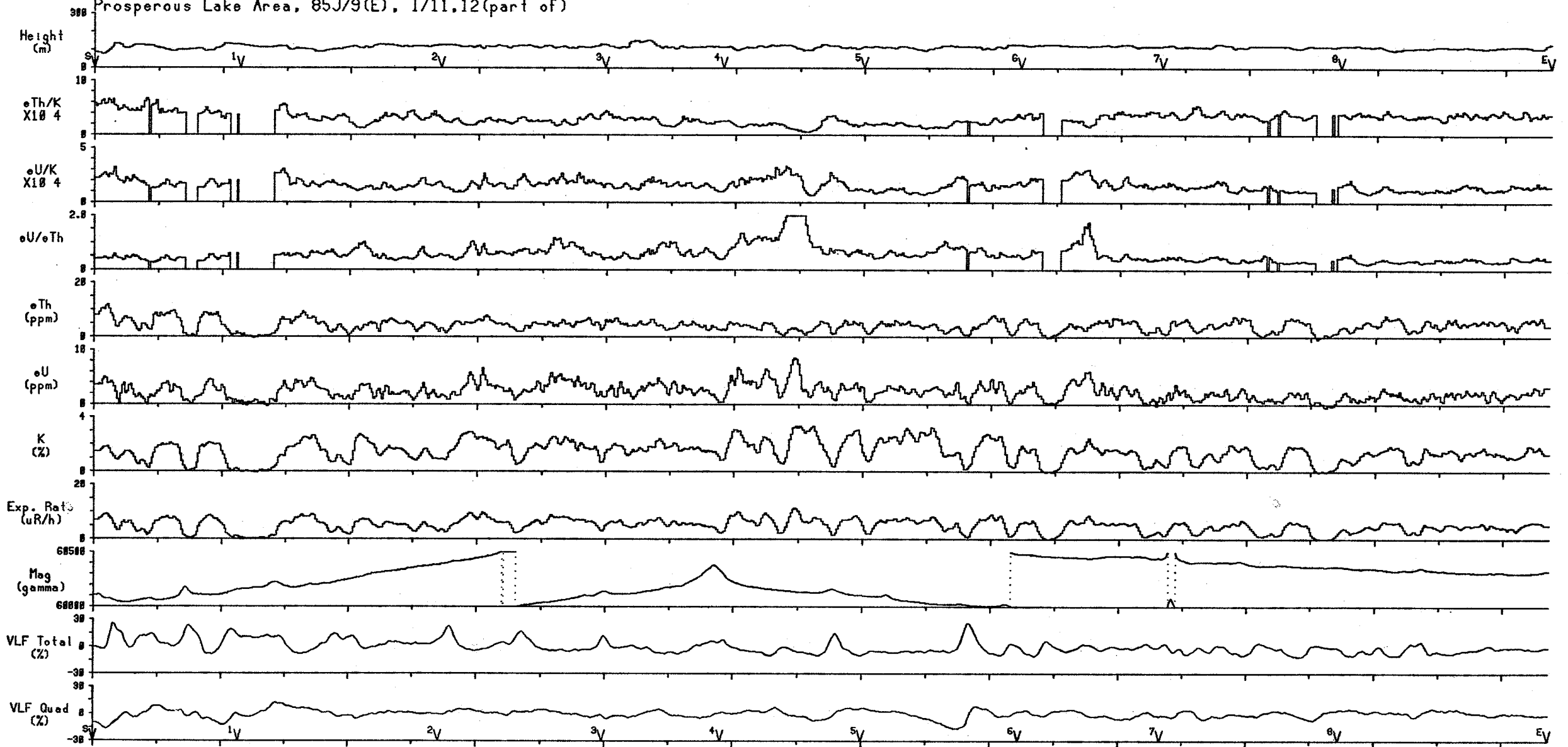
Creek

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), 1/11.12(part of)



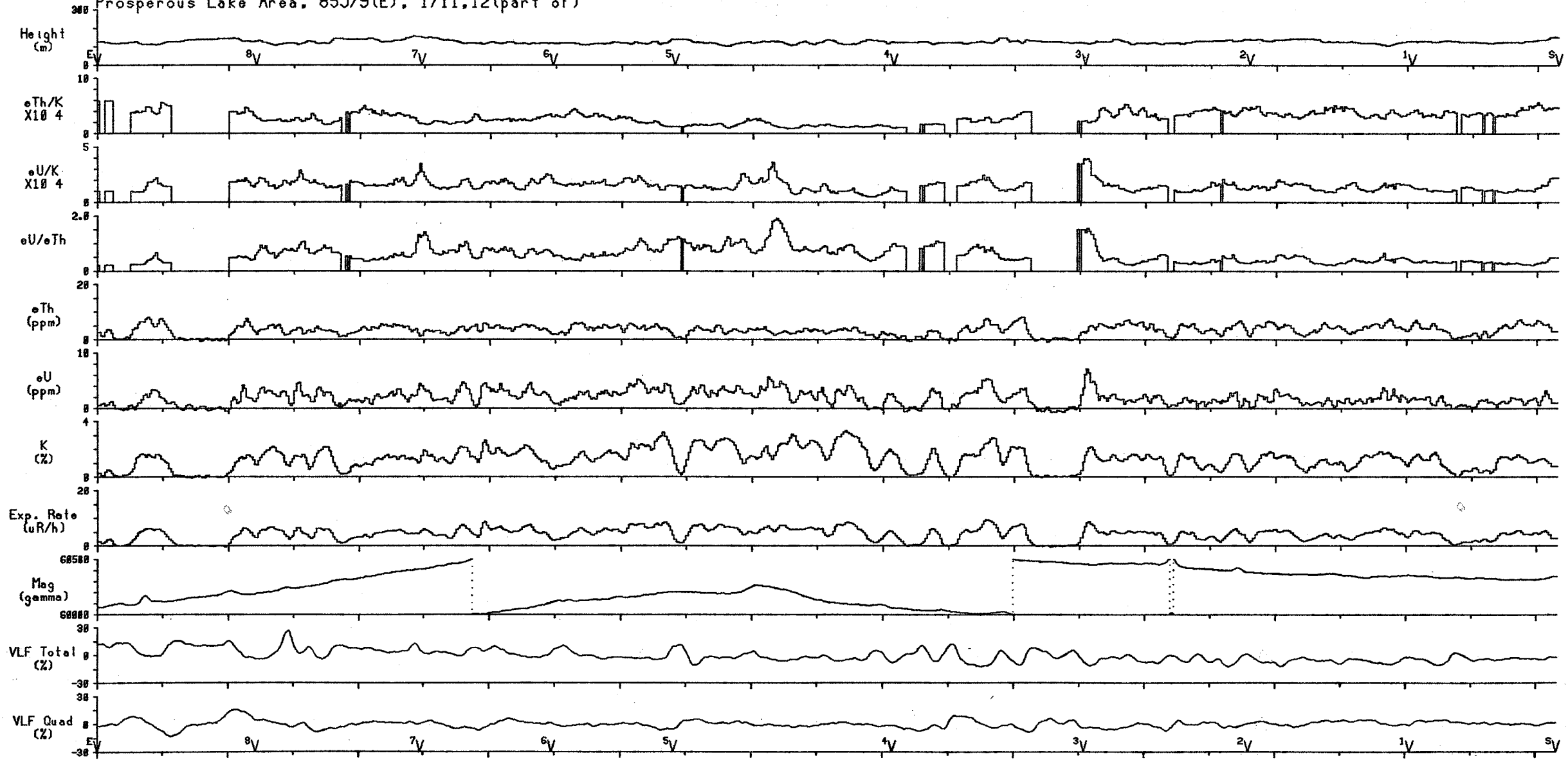
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11.12(part of)

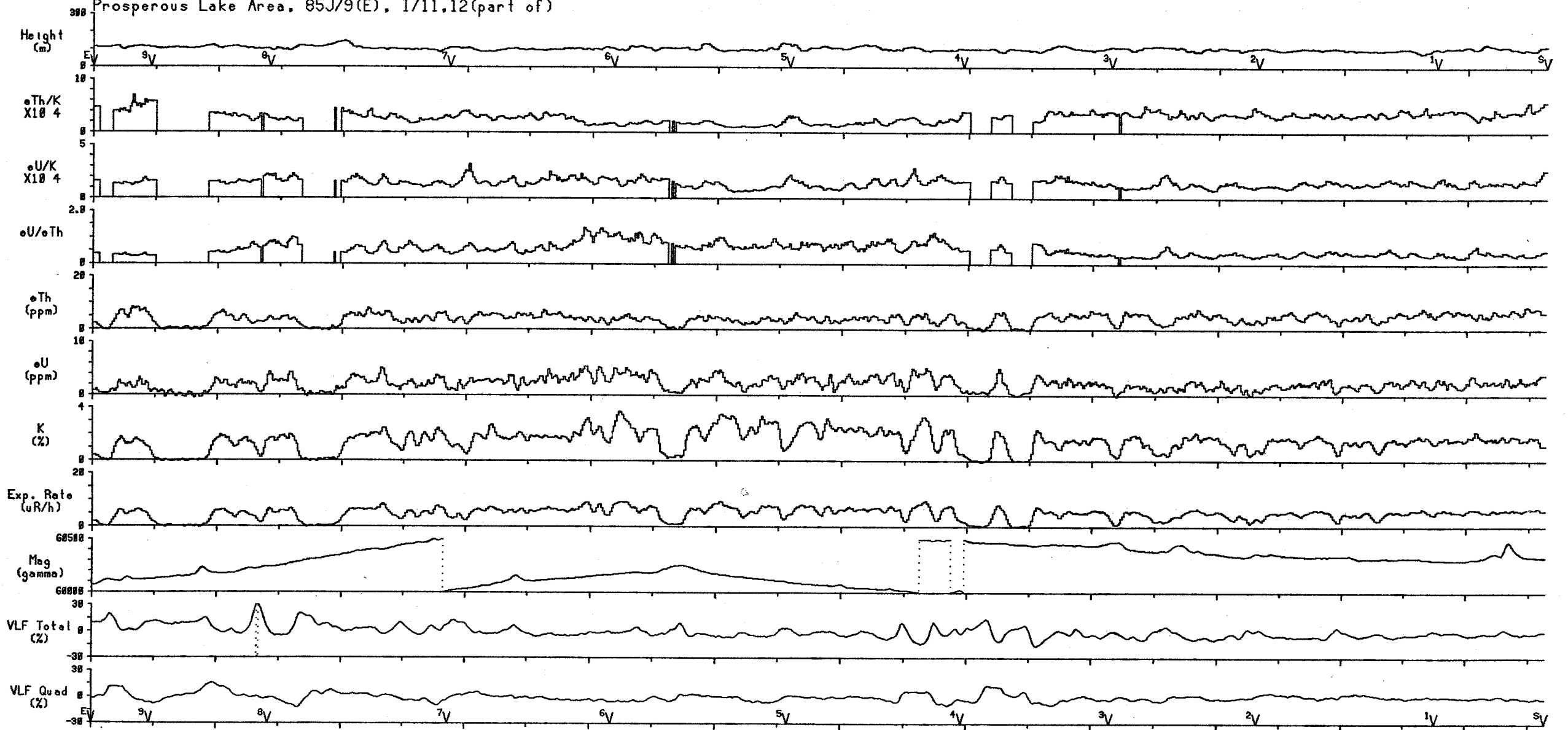


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 Prosperous Lake Area, 85J/9(E), I/11,12(part of)

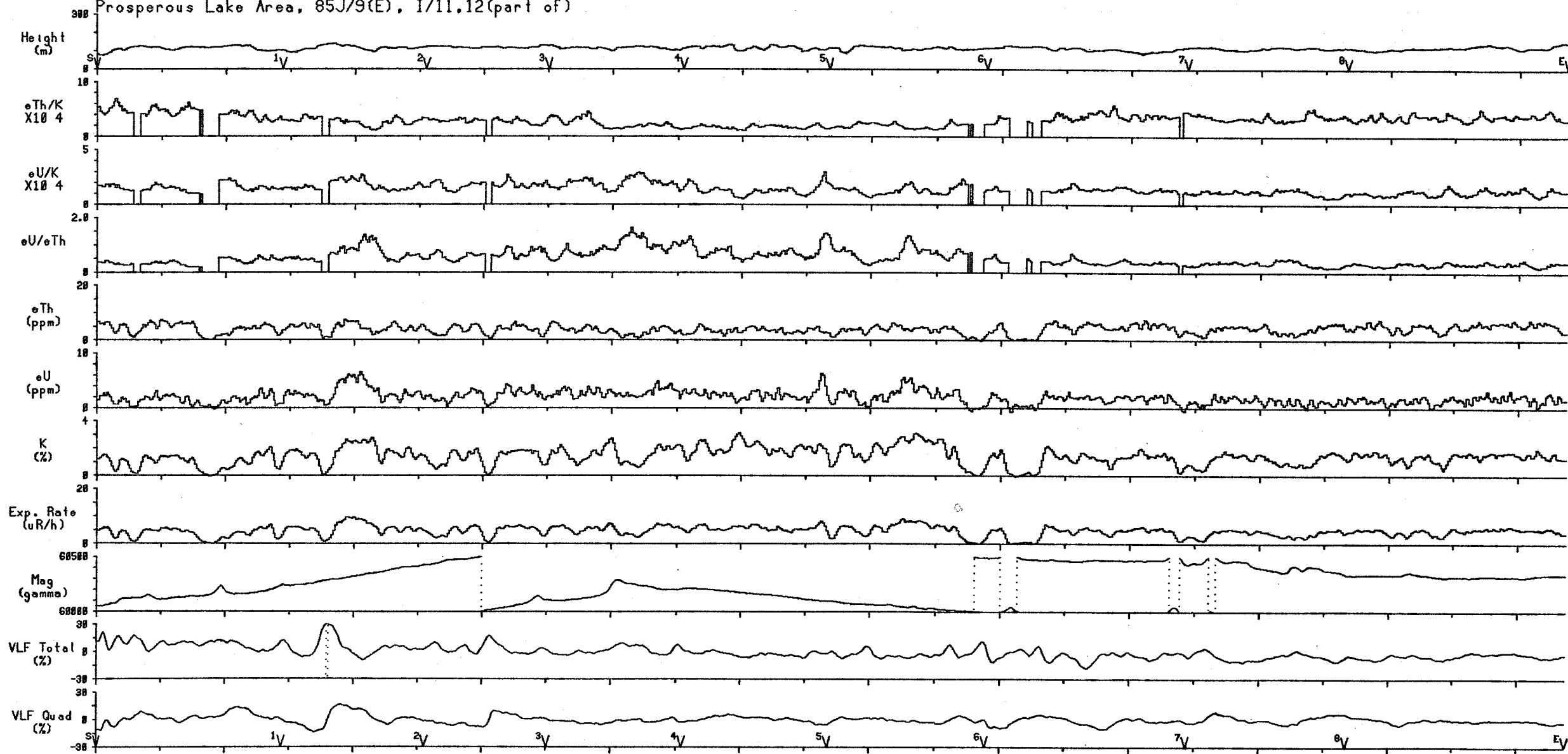


Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11.12(part of)



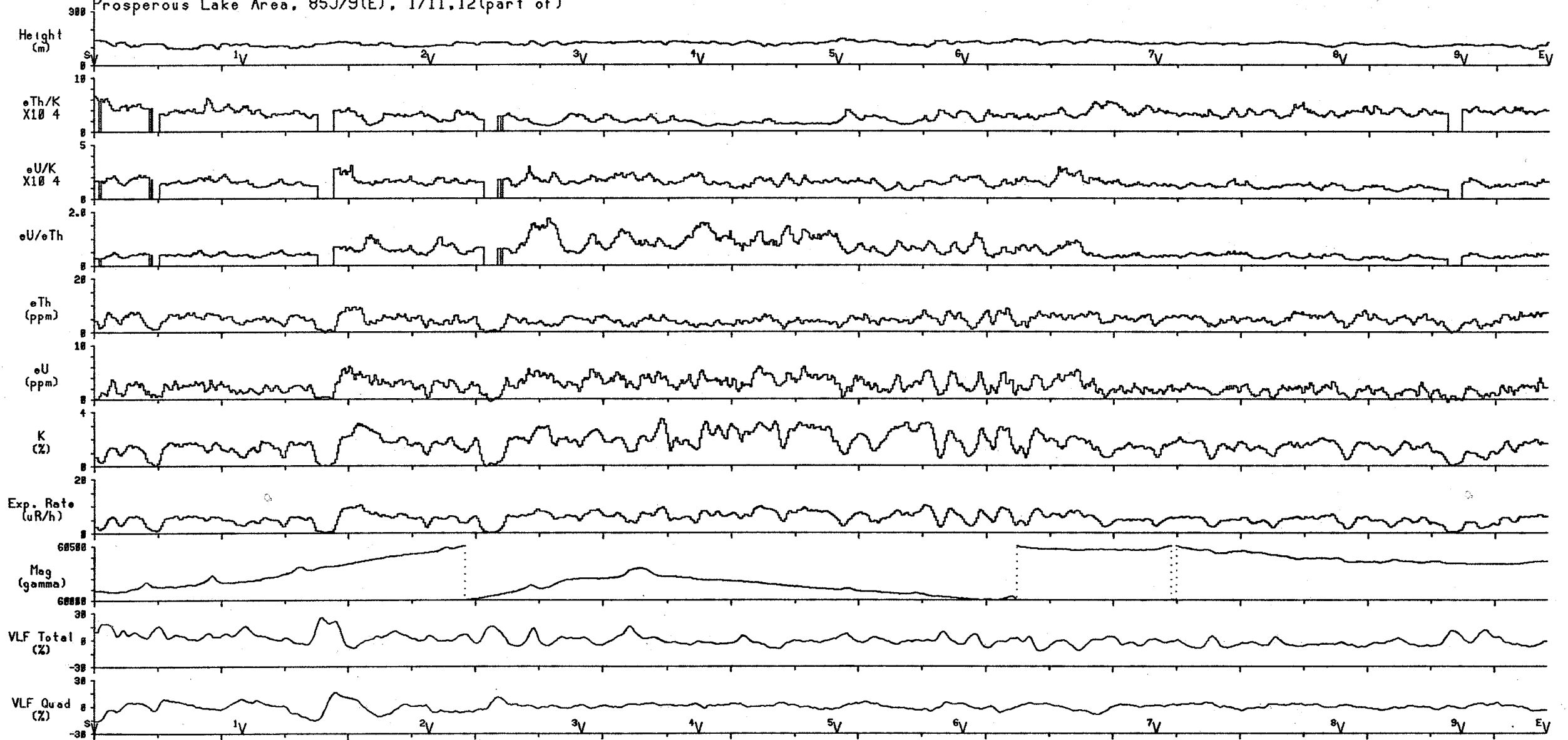
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Prosperous Lake Area, 85J/9(E), 1/11.12(part of)



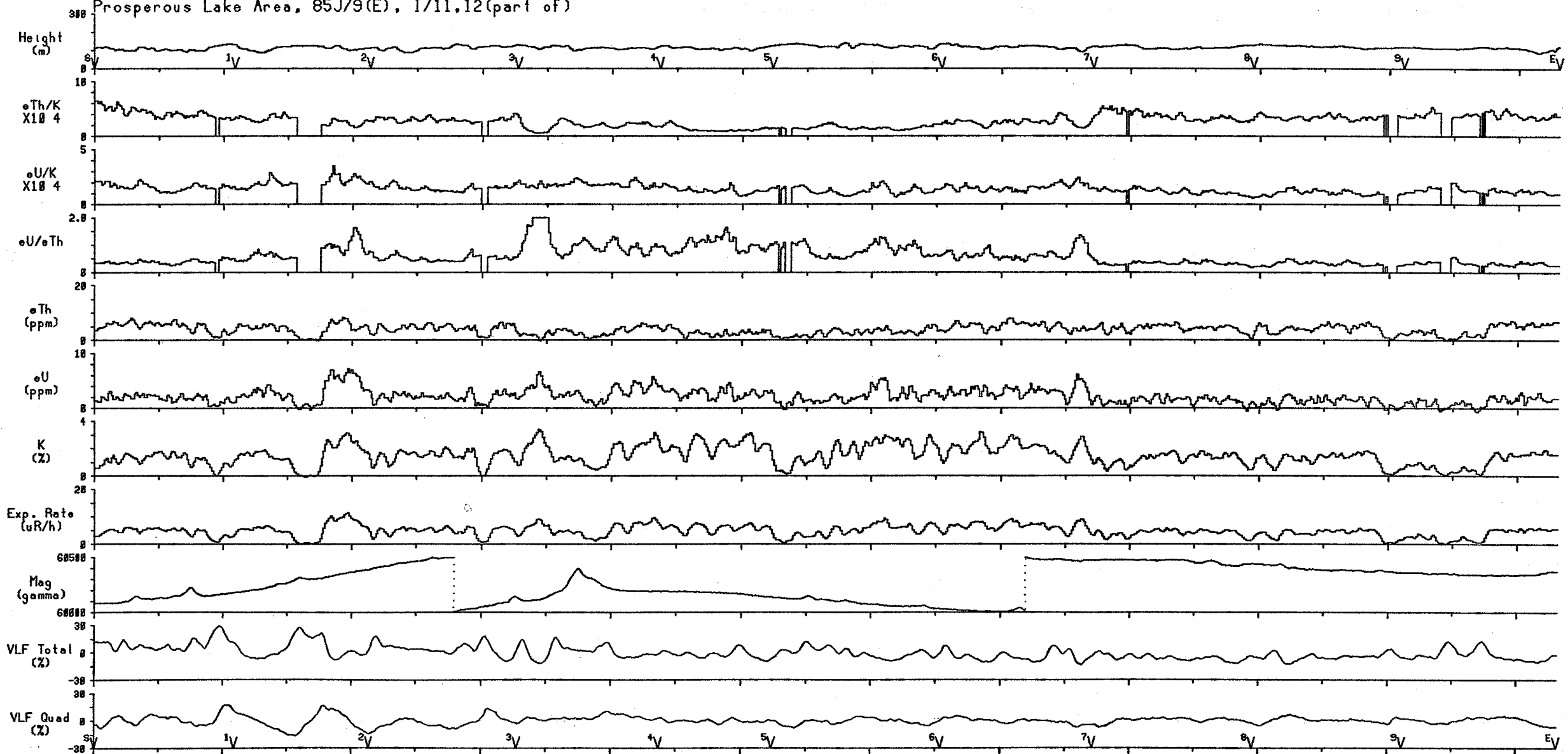
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 Prosperous Lake Area, 85J/9(E), I/11.12(part of)



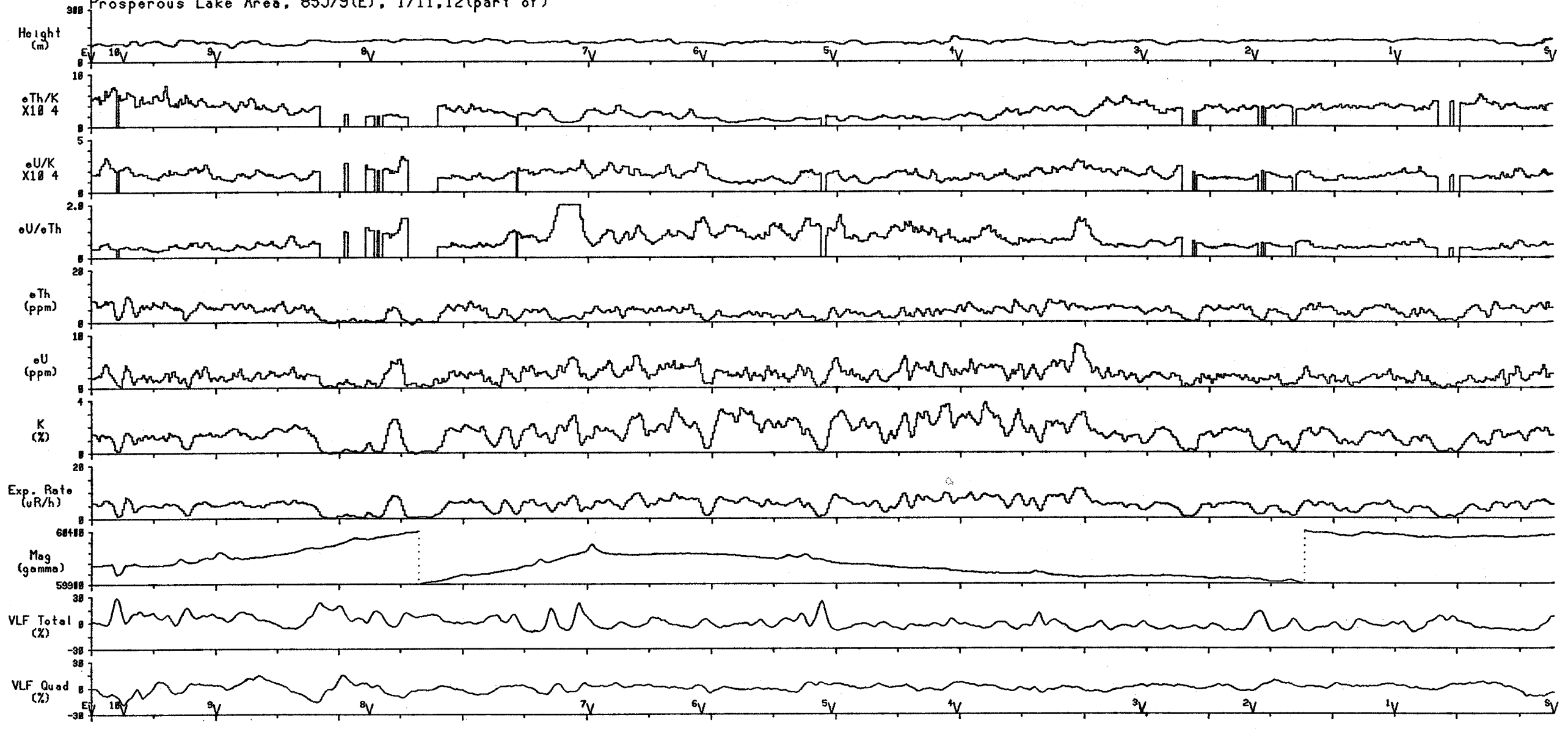
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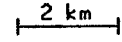
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Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



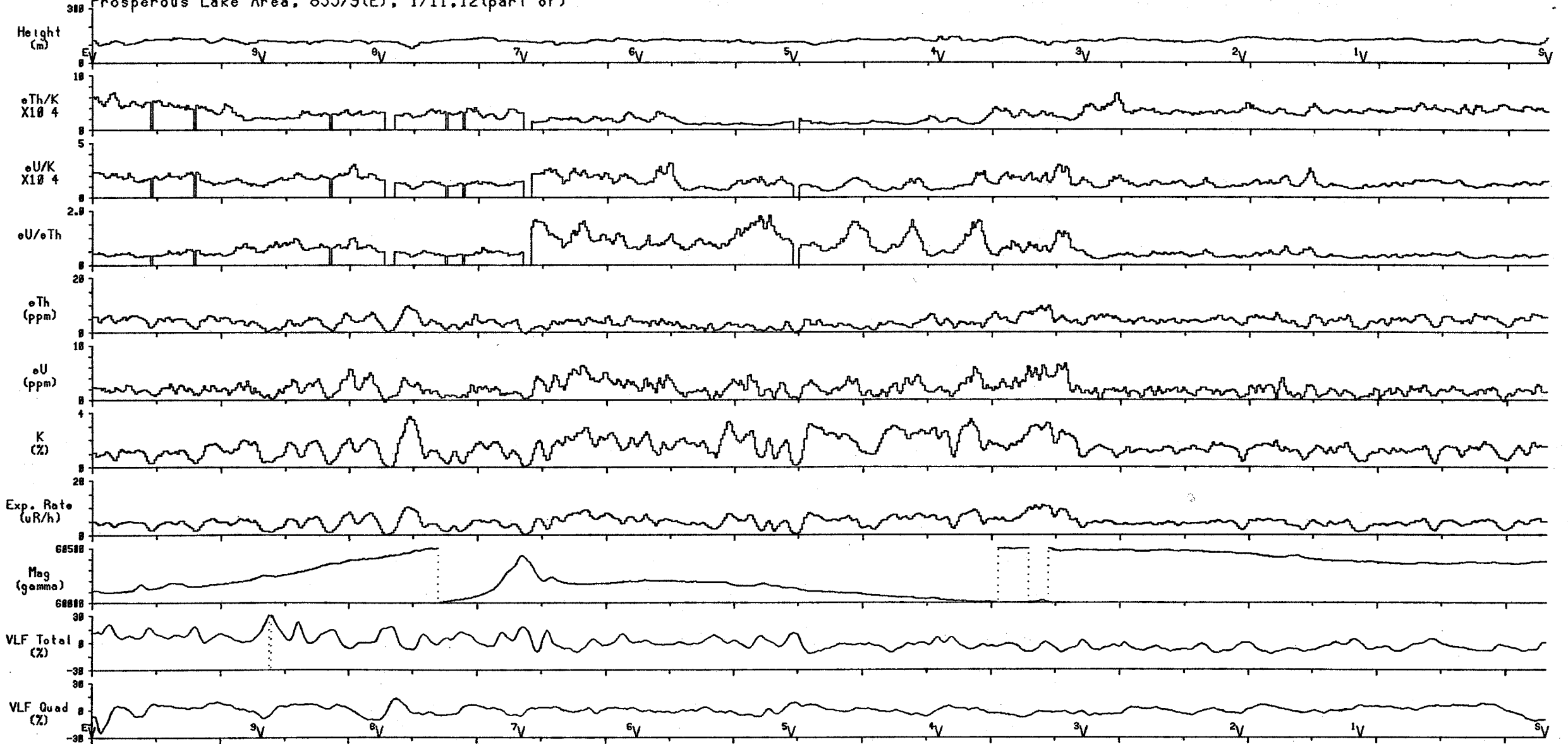
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 Prosperous Lake Area, 85J/9(E), I/11,12(part of)



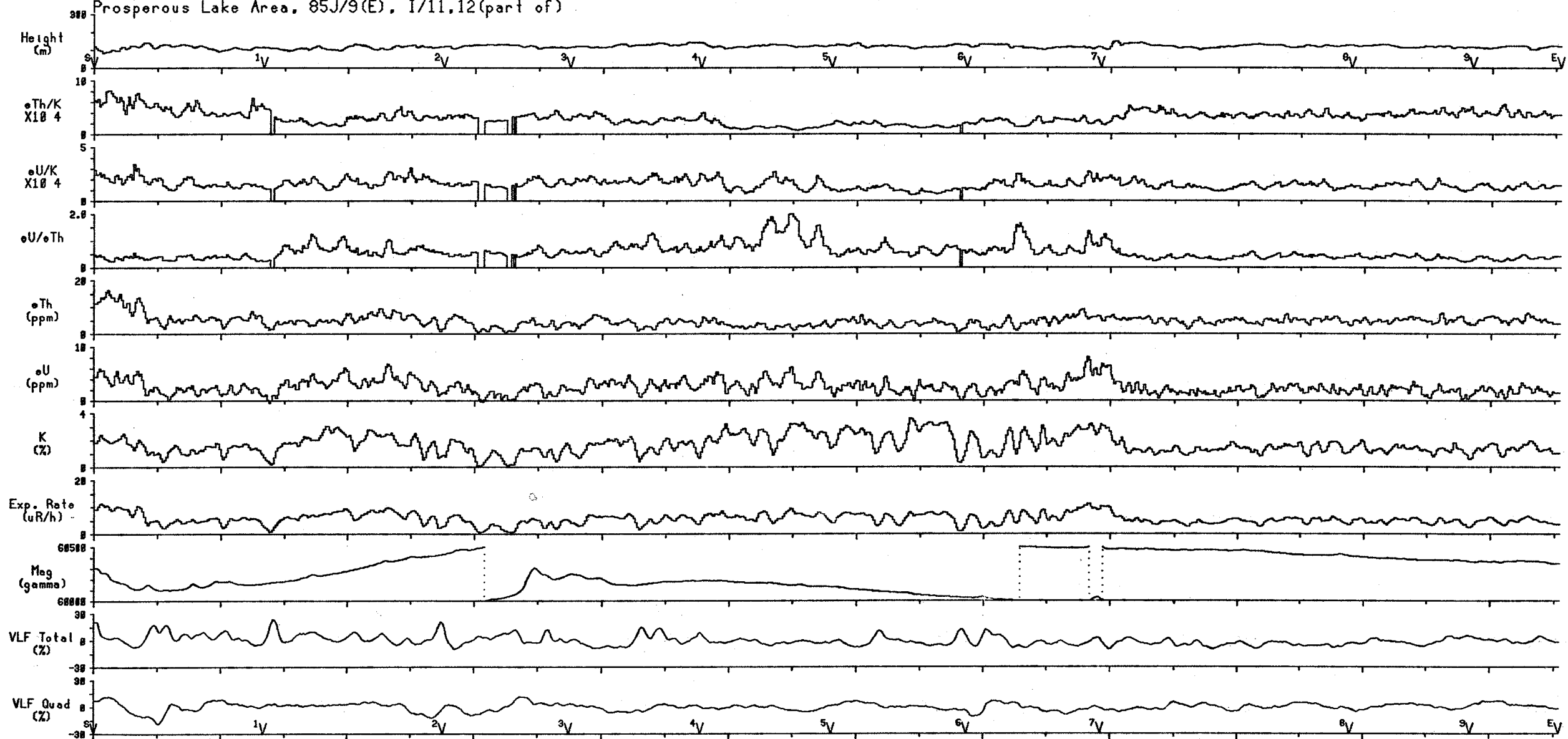
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Prosperous Lake Area, 85J/9(E), 1/11.12(part of)



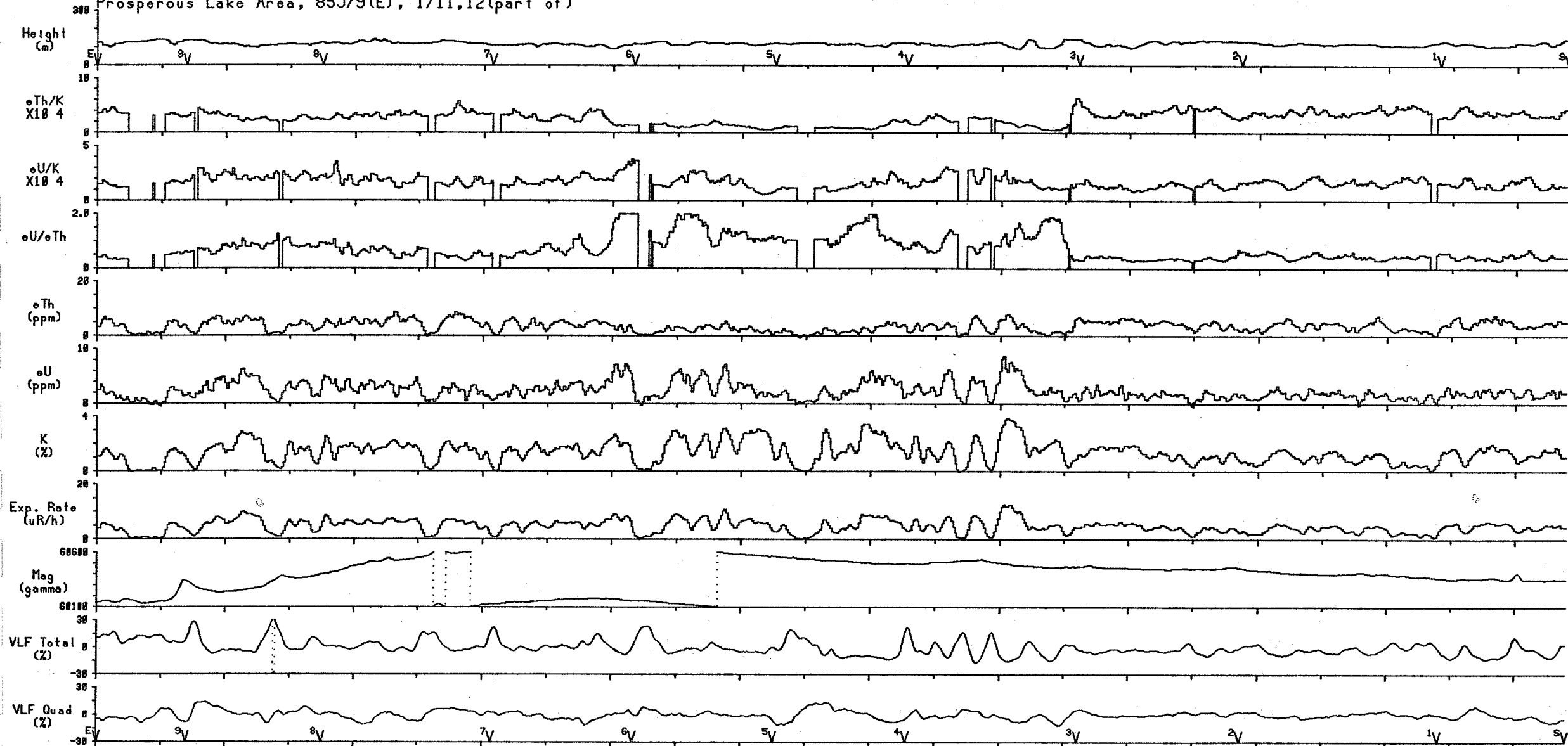
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Prosperous Lake Area, 85J/9(E), 1/11.12(part of)



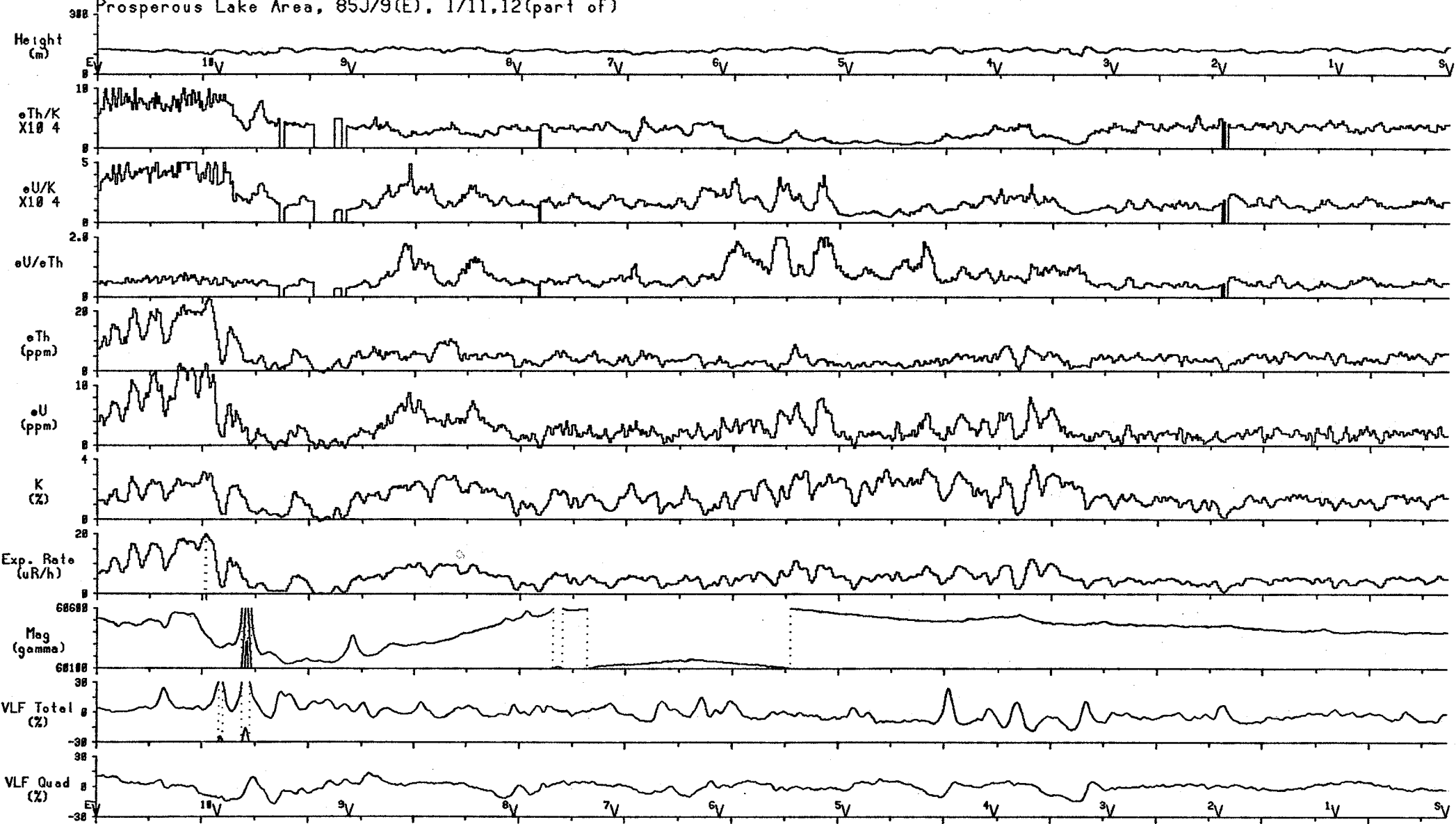
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11.12(part of)



Line 16 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11,12(part of)

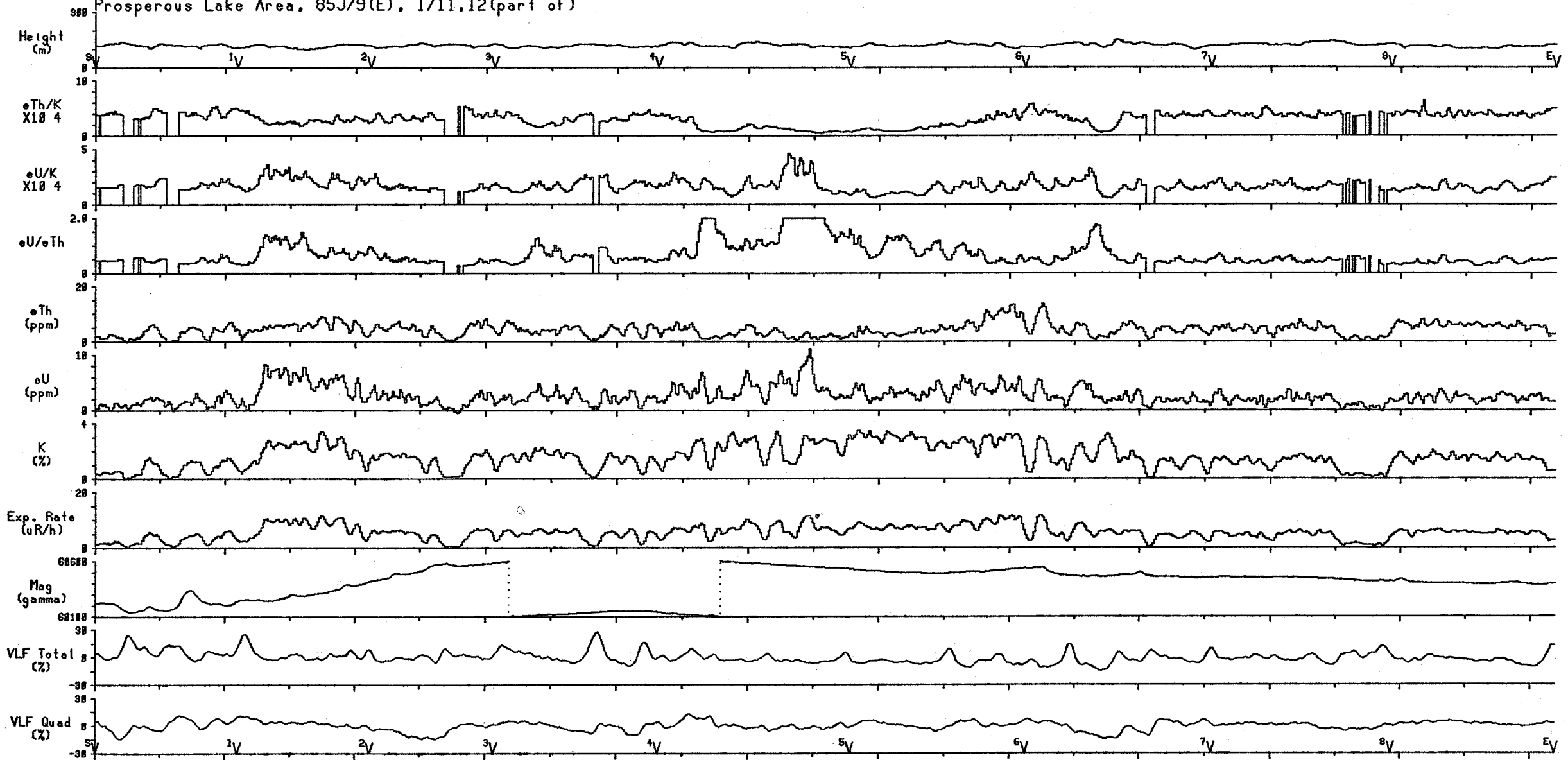


Line 17

2 km

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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)

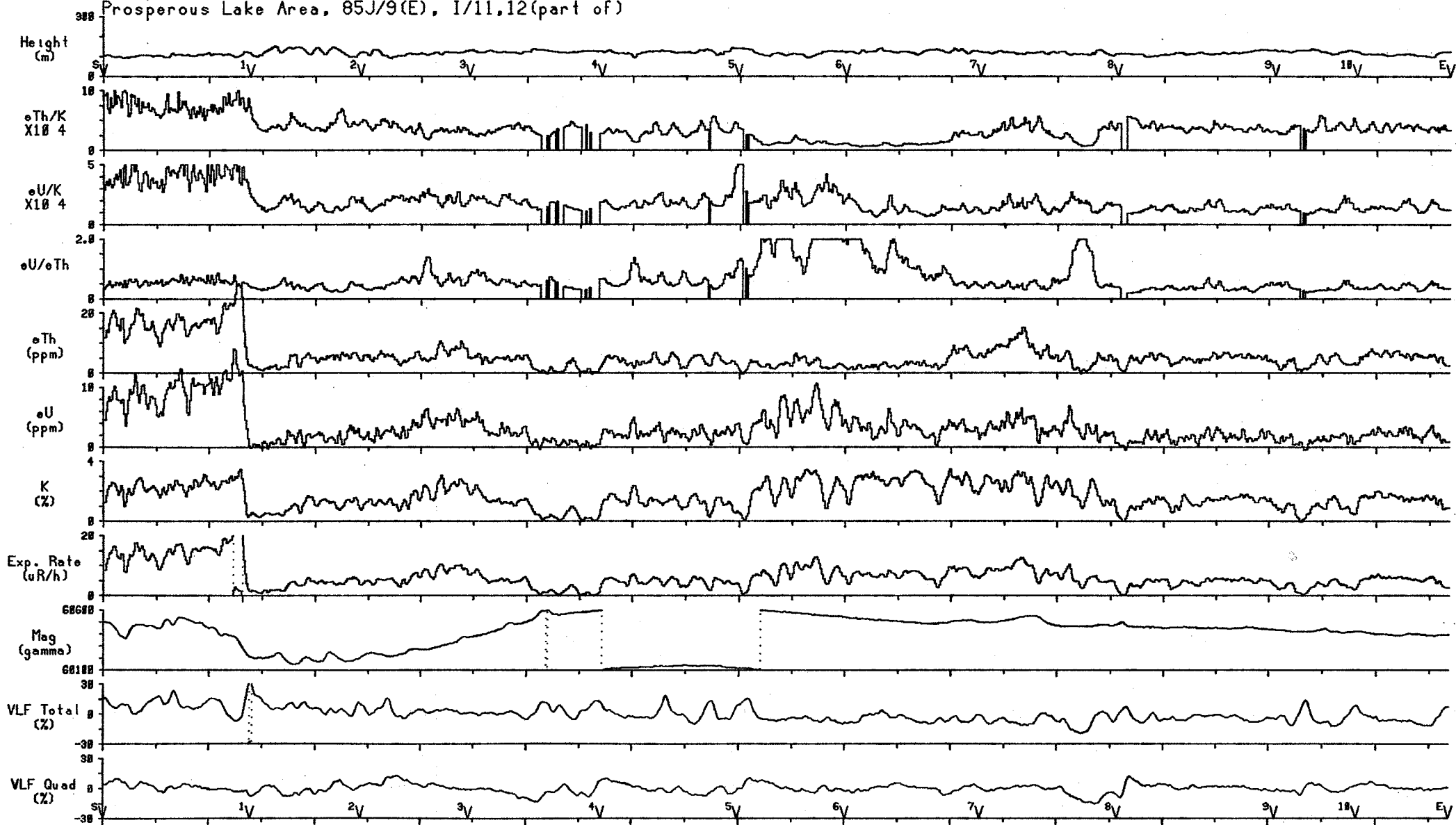


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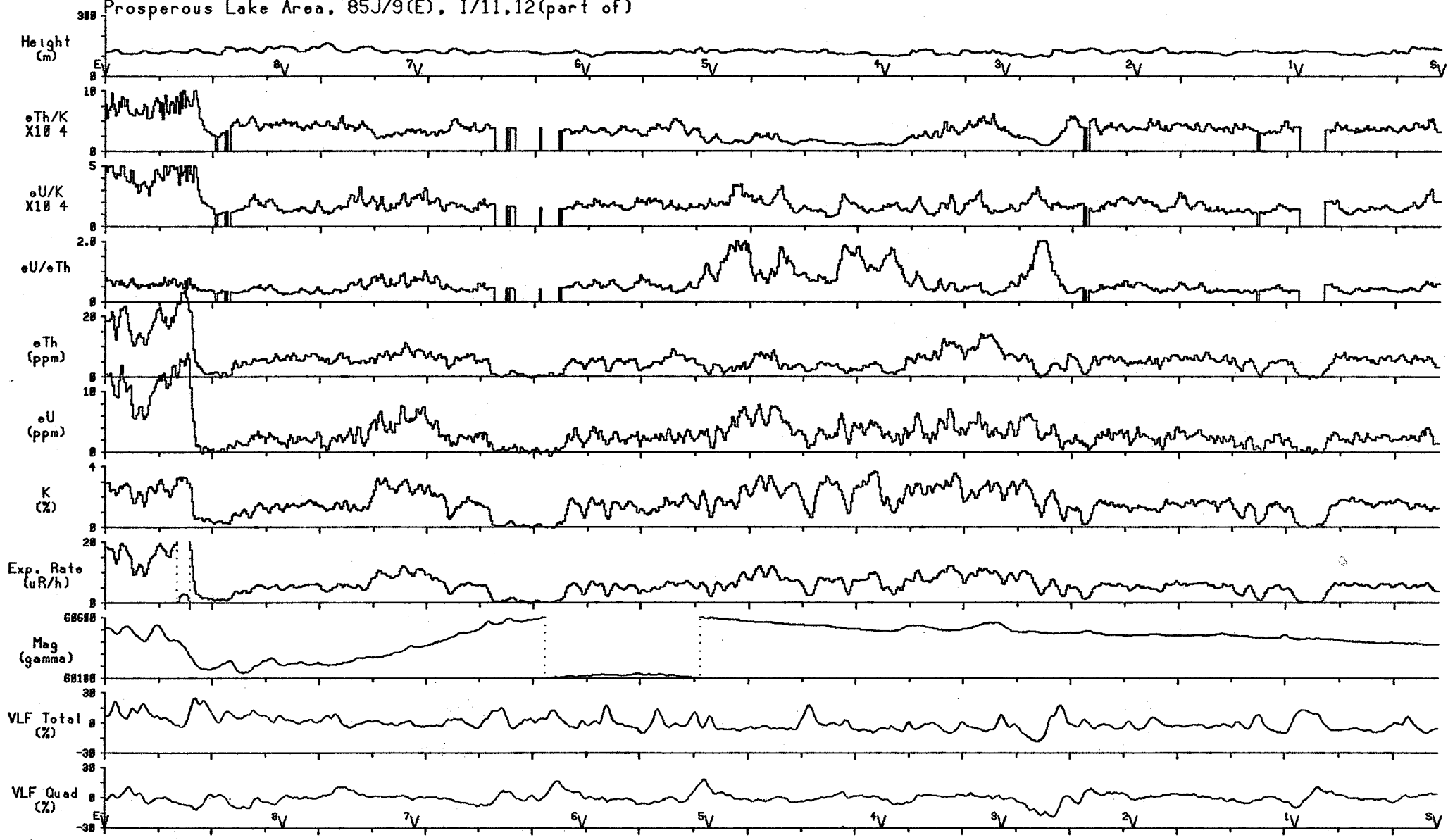
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Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



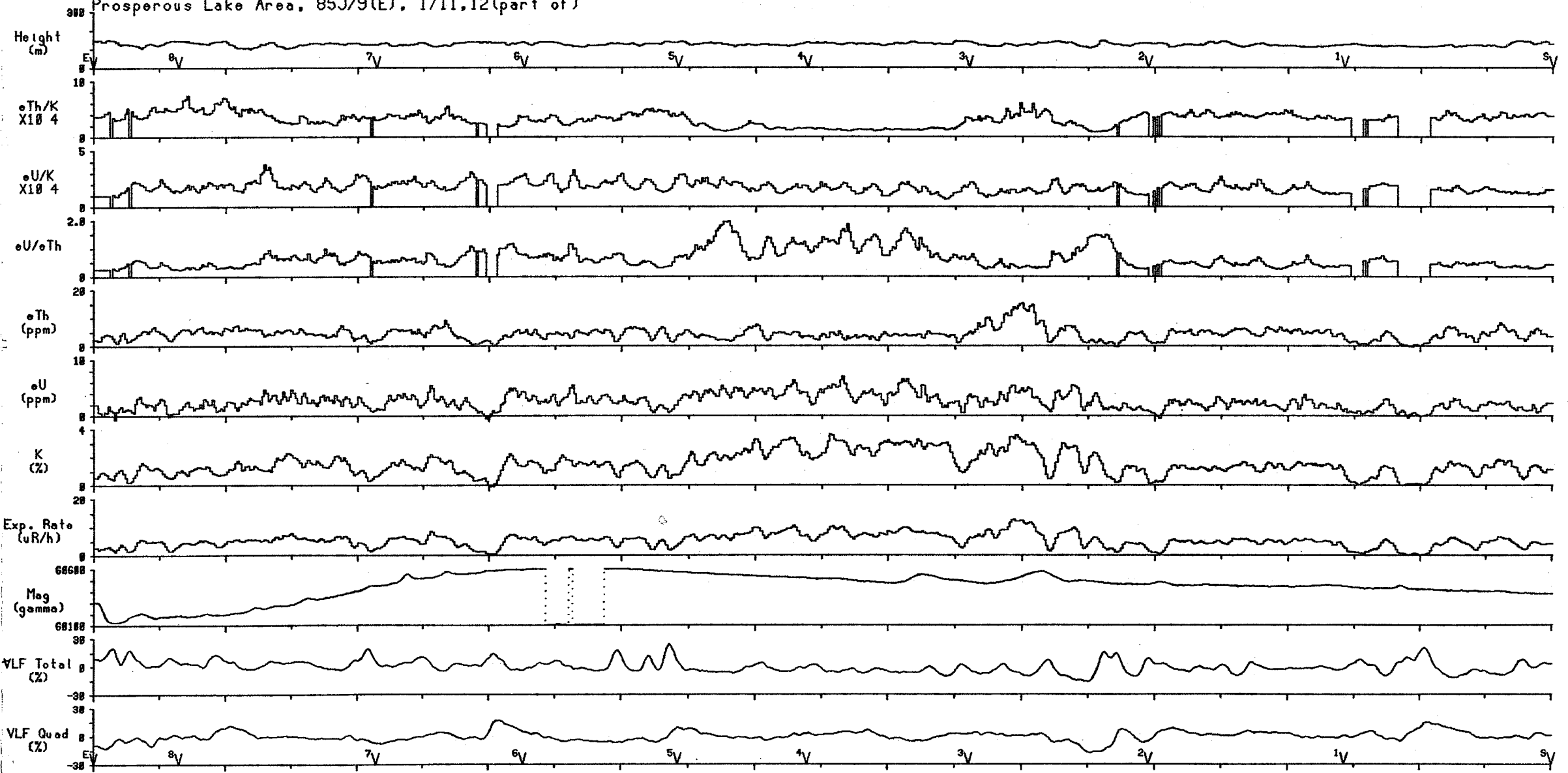
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 Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



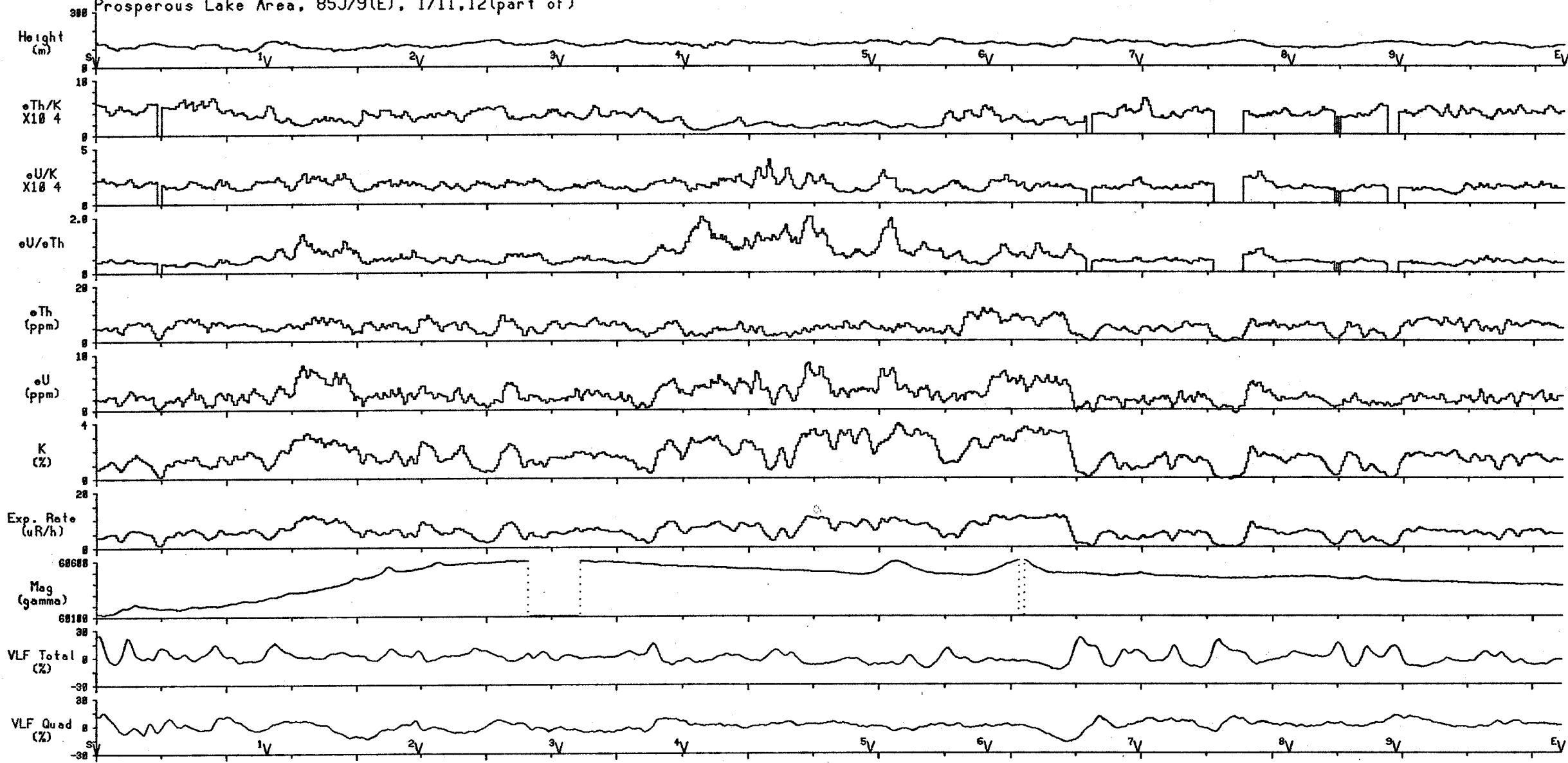
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Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



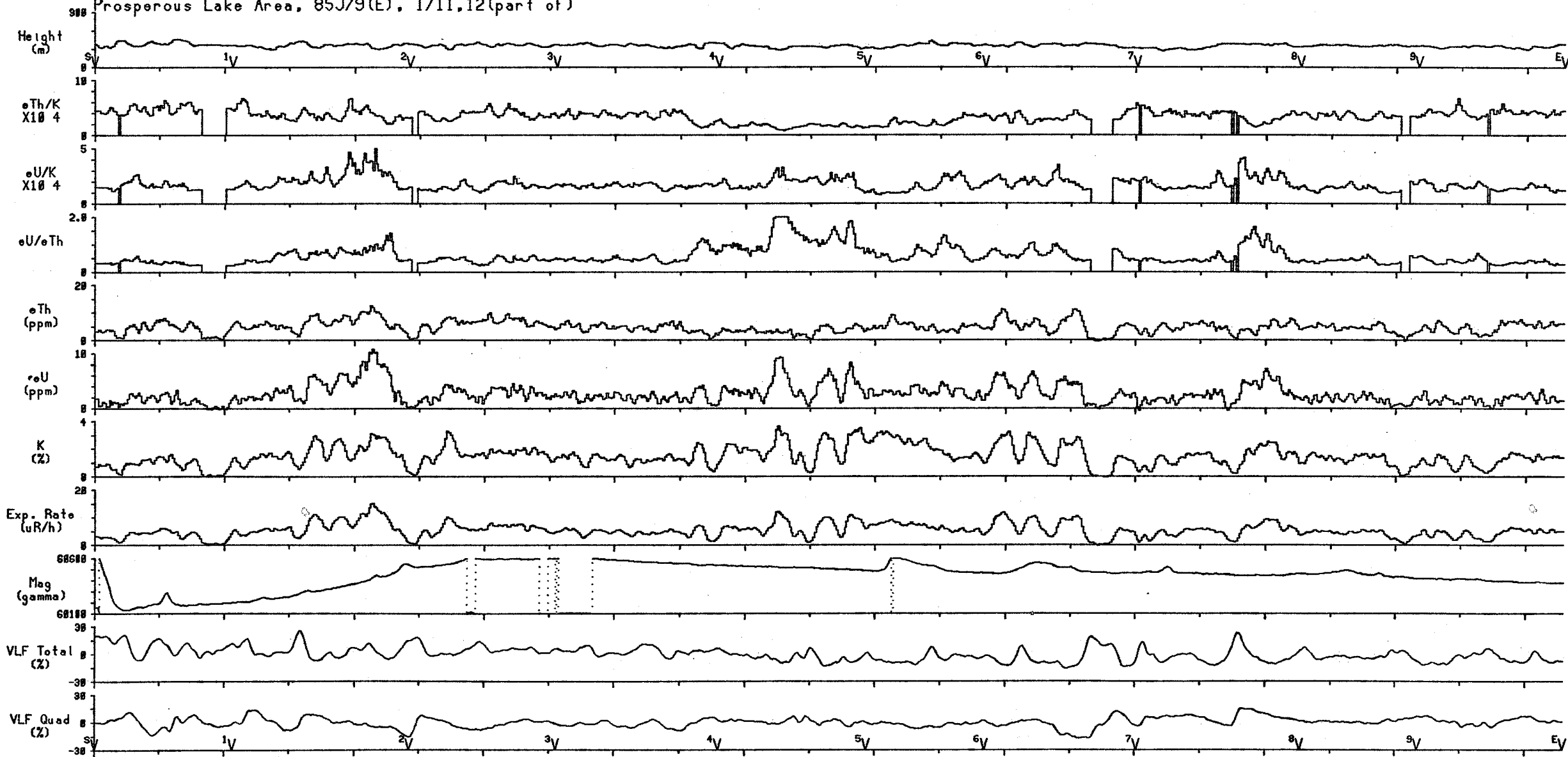
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)

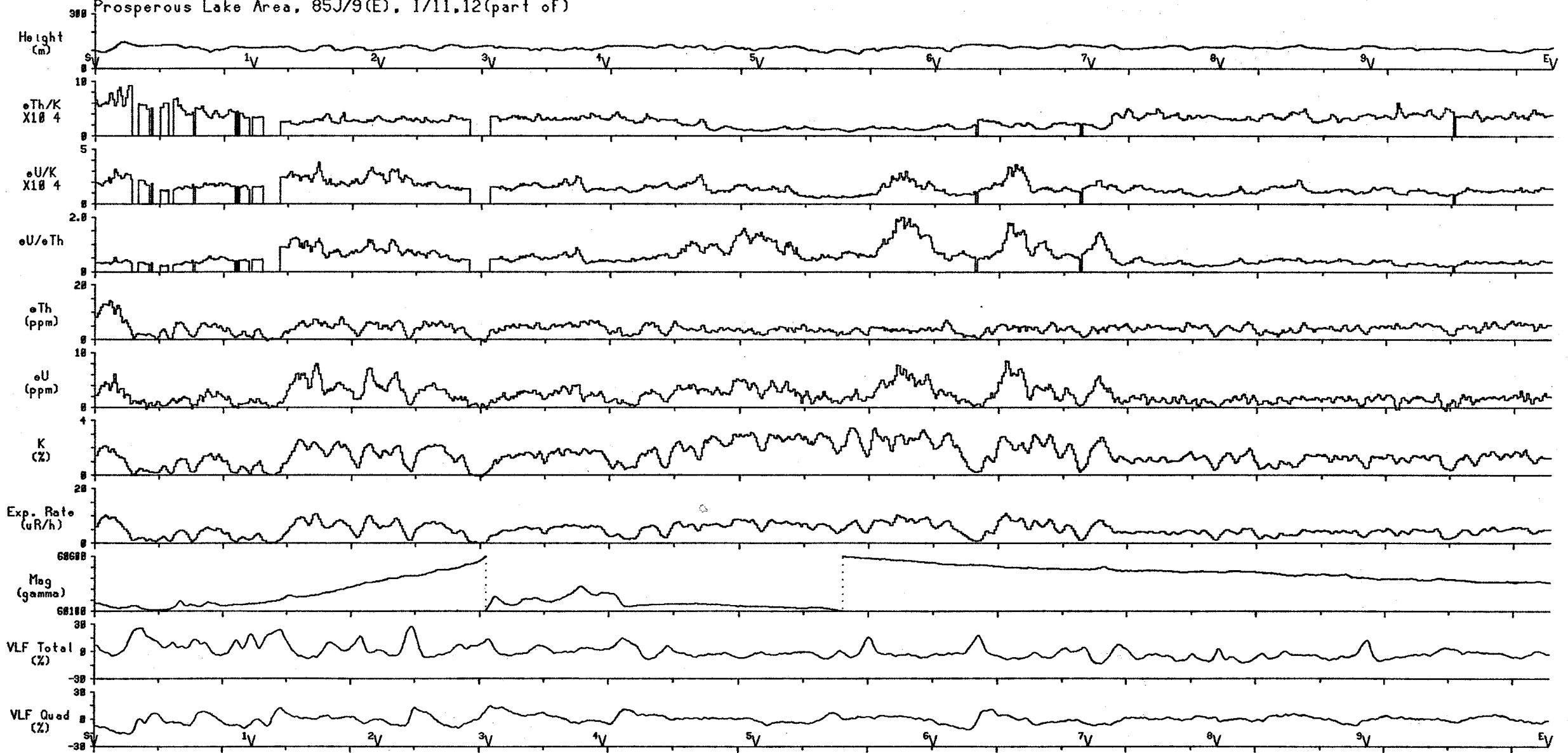


Line 23

2 km

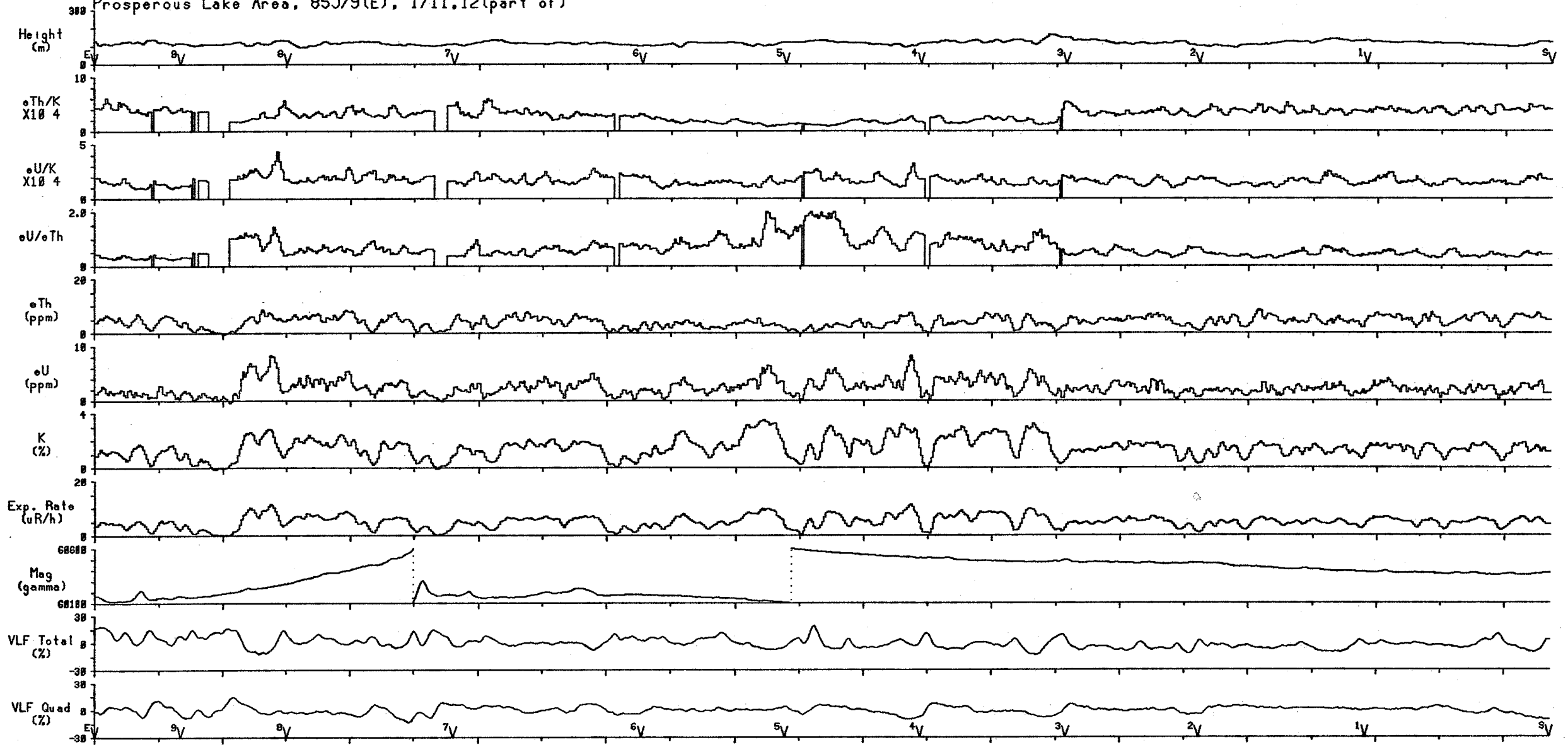
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



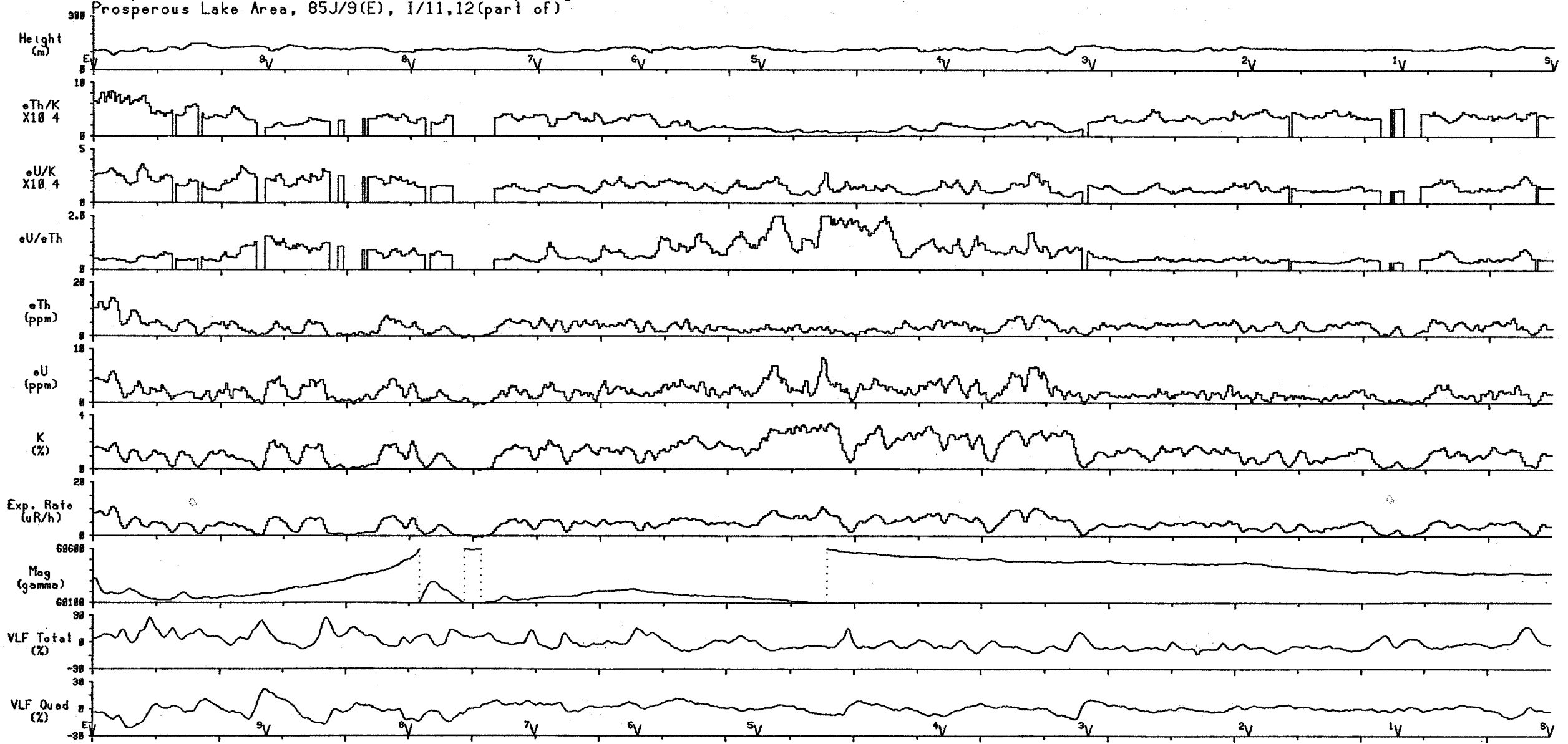
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 Prosperous Lake Area, 85J/9(E), I/11,12(part of)



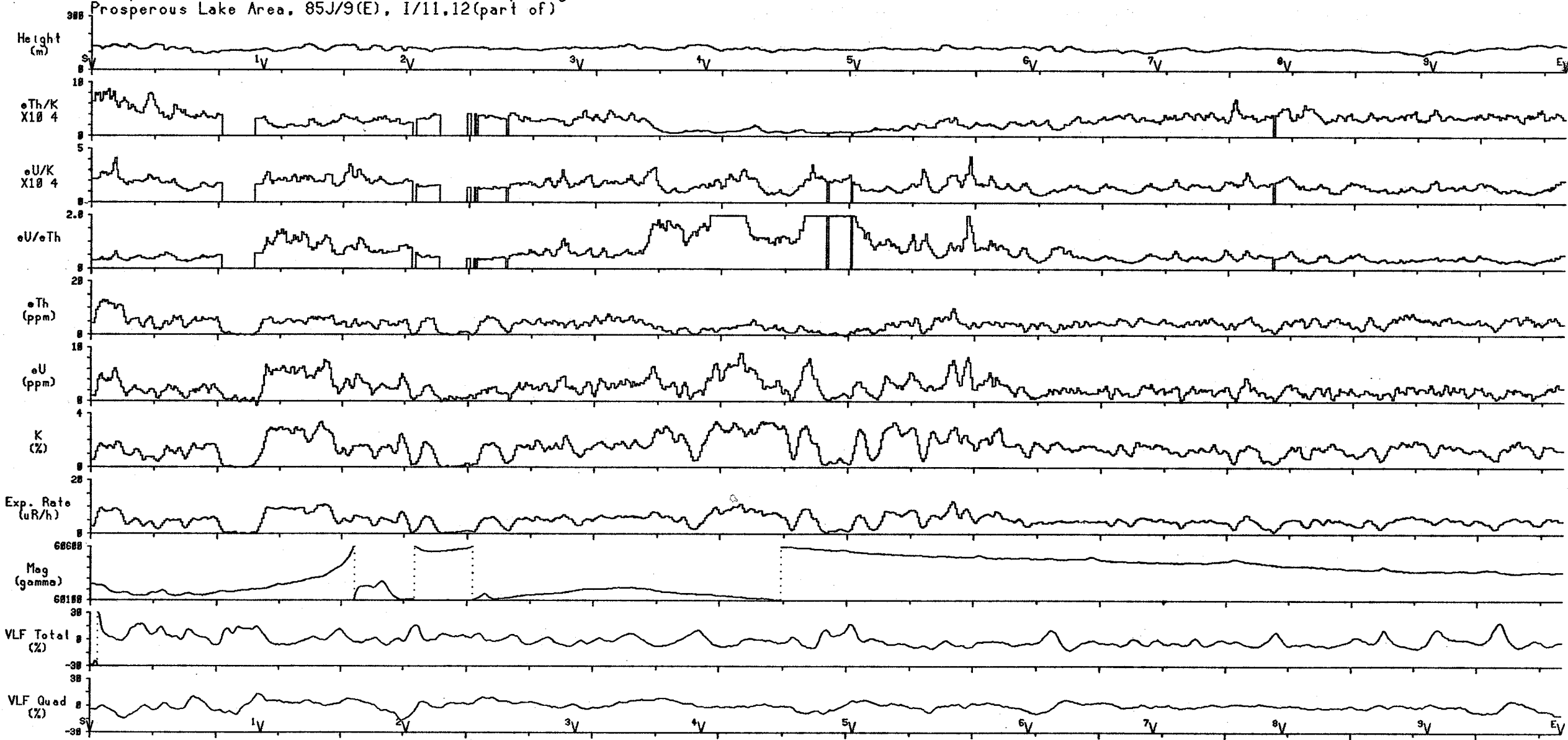
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



Line 13 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11.12(part of)

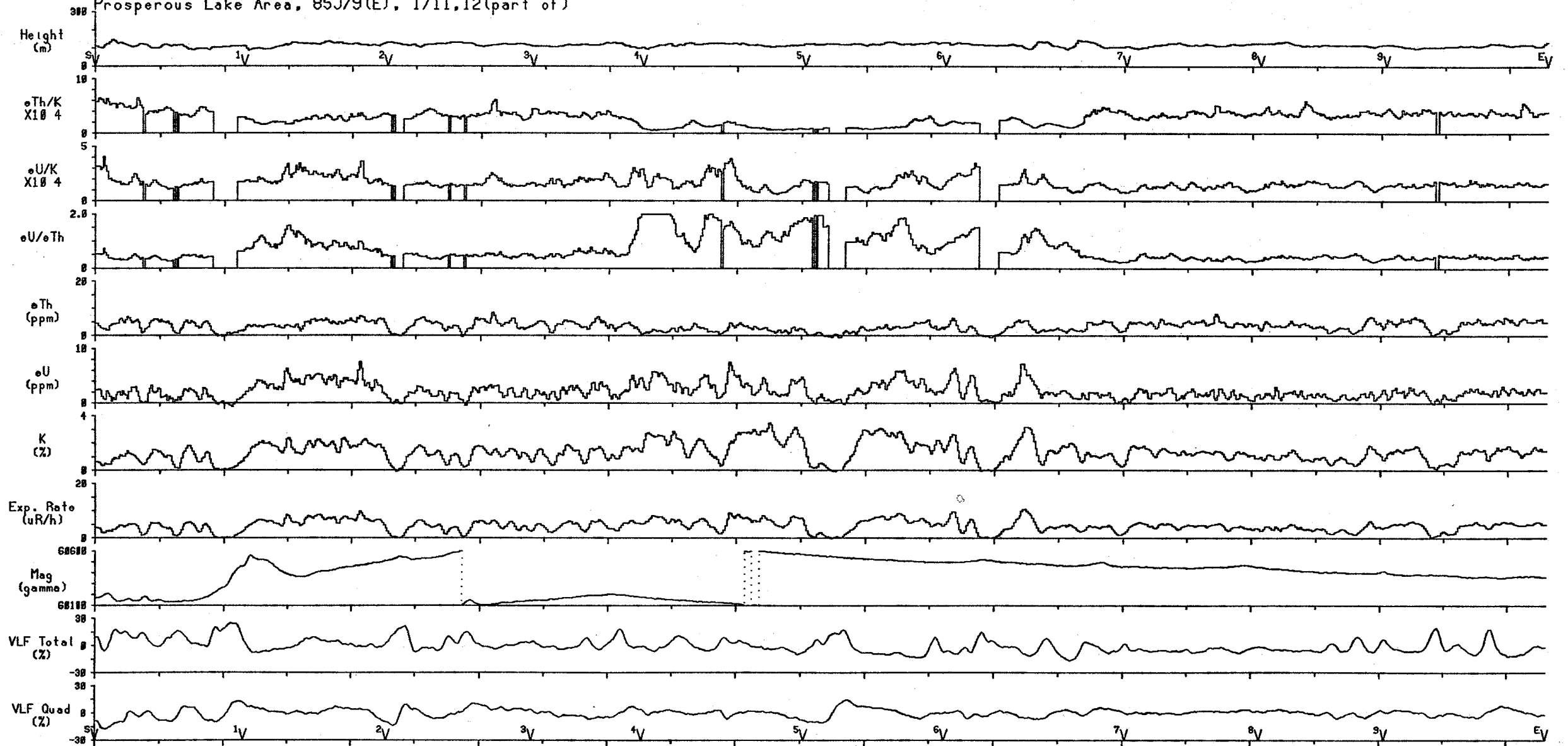


Line 14

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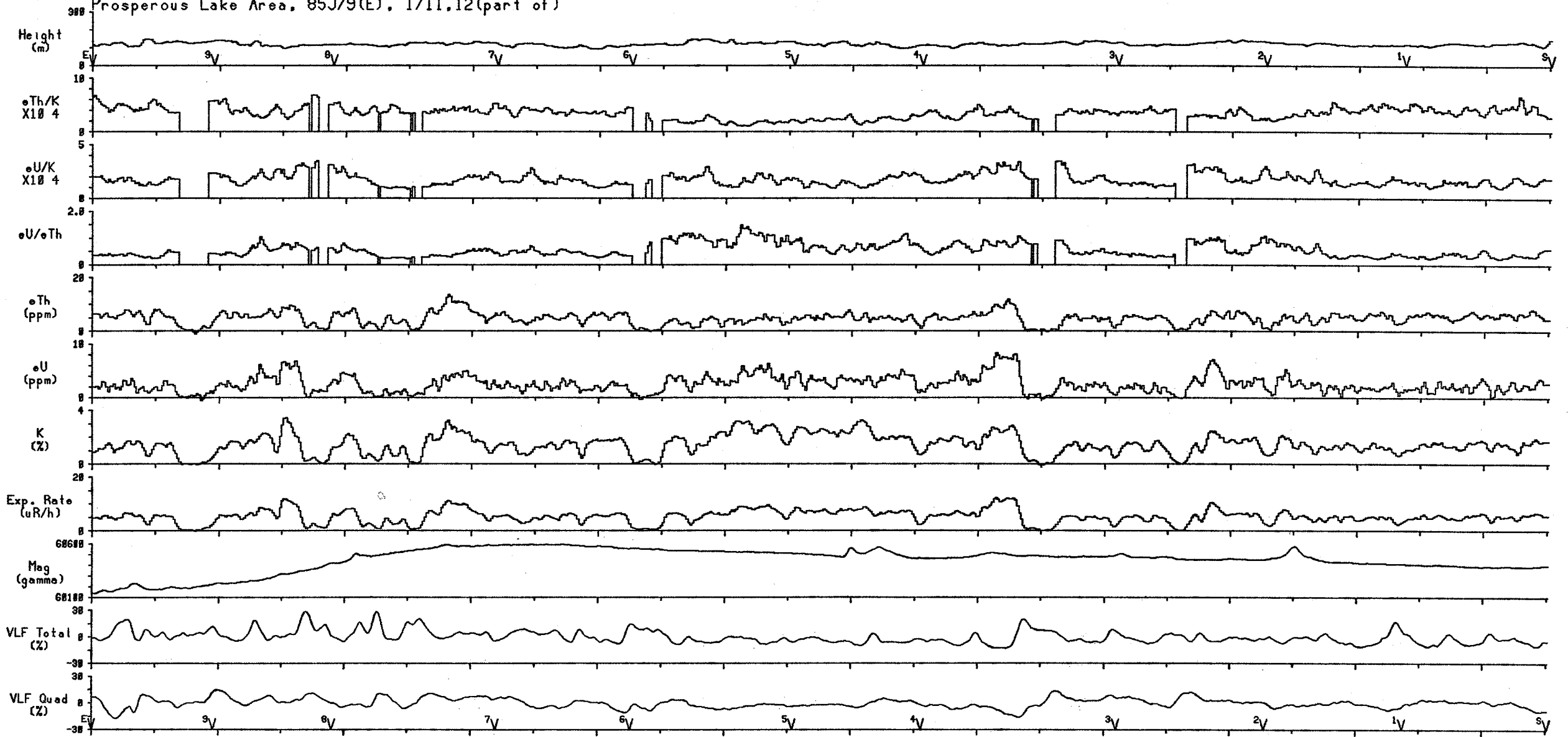
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 Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



Line 15 2 km Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11.12(part of)

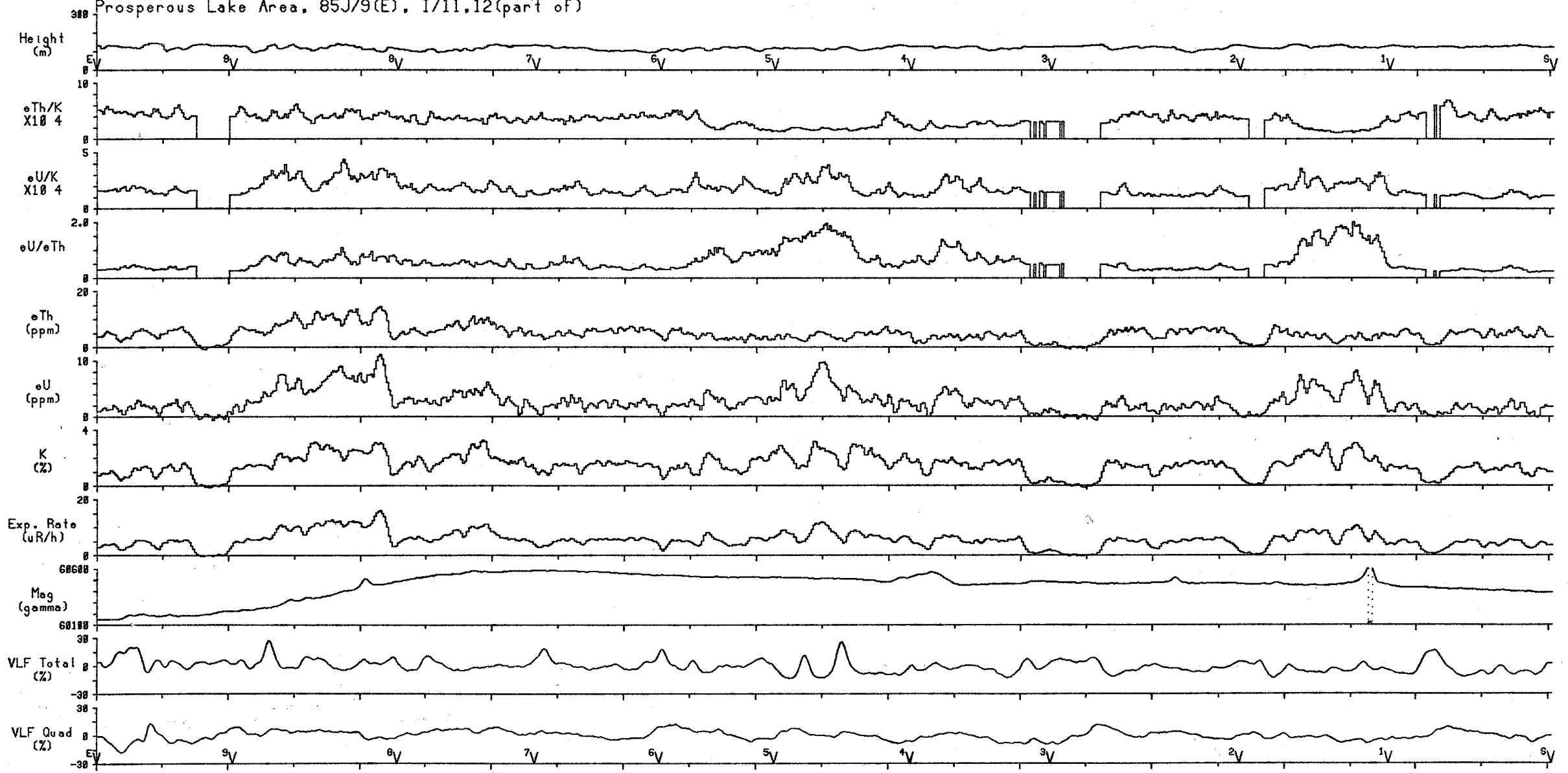


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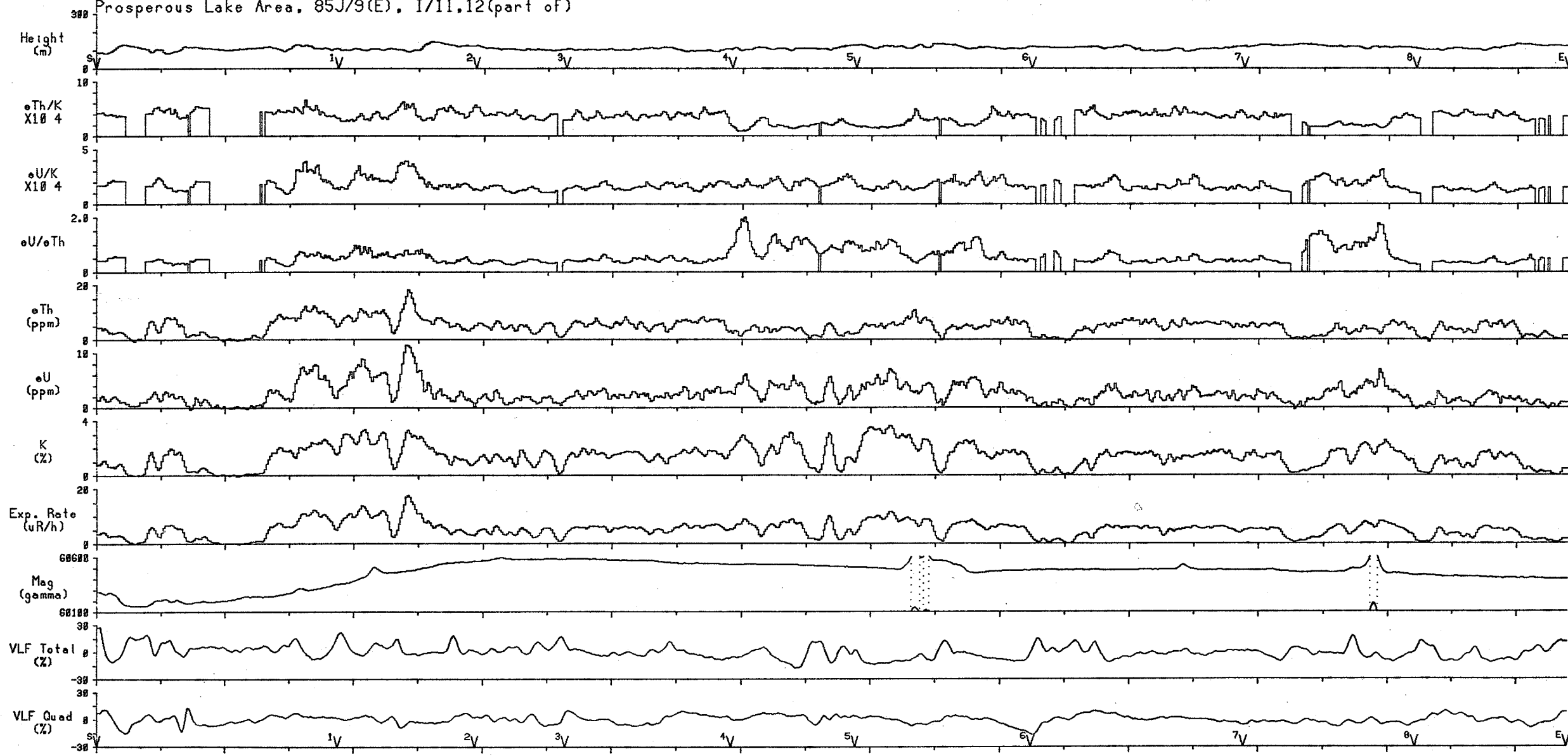
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)



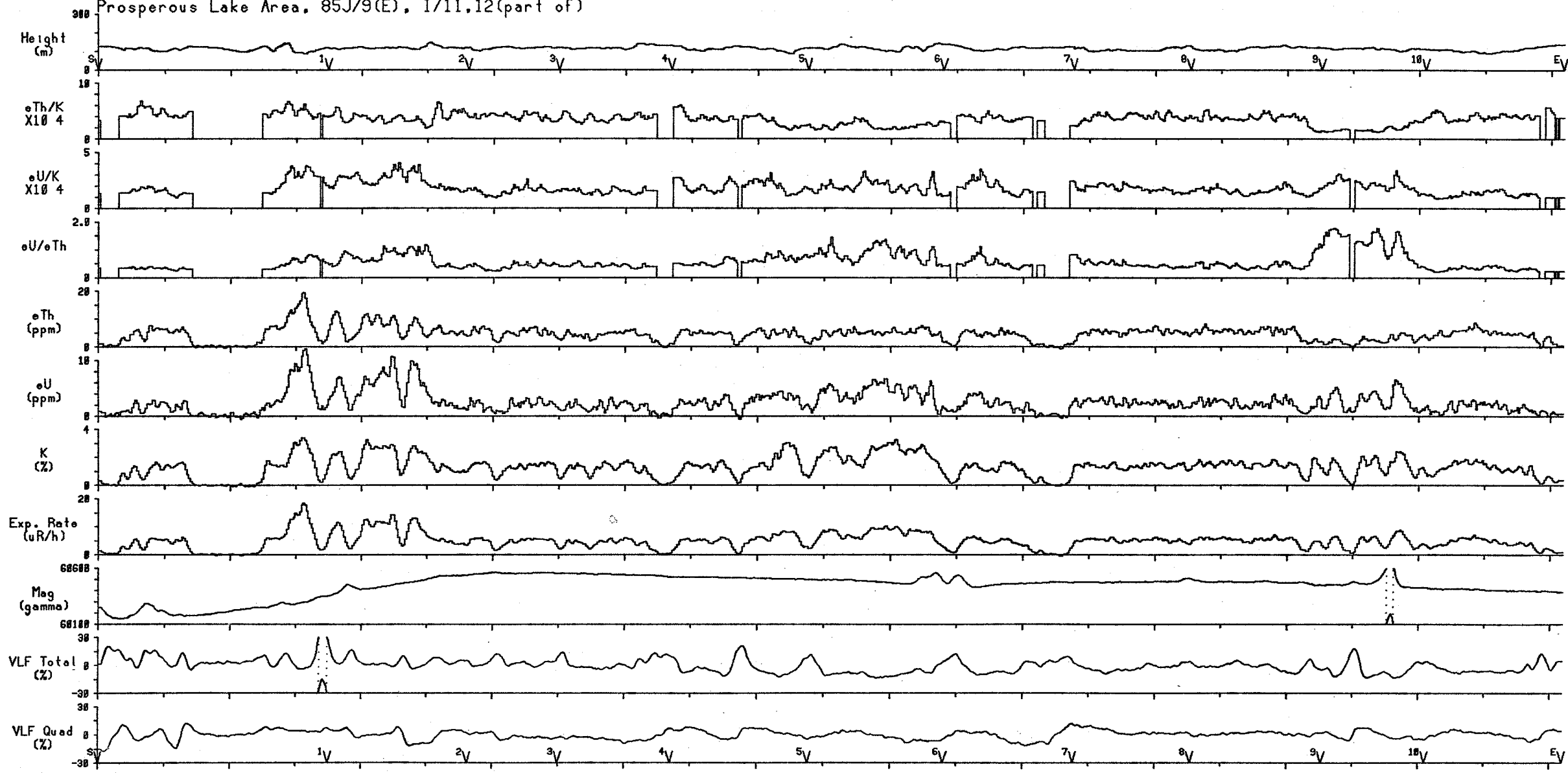
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11.12(part of)



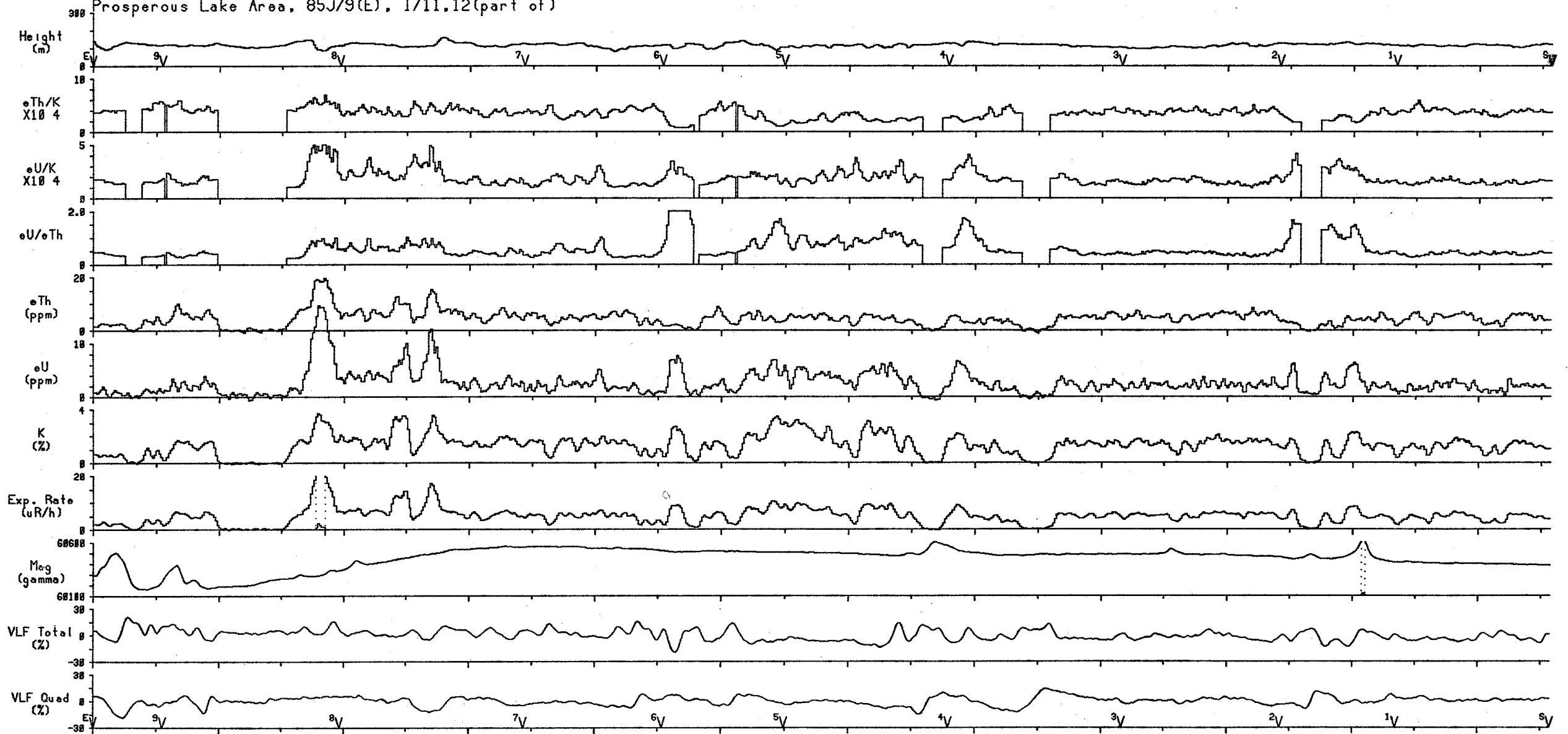
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Prosperous Lake Area, 85J/9(E), I/11.12(part of)



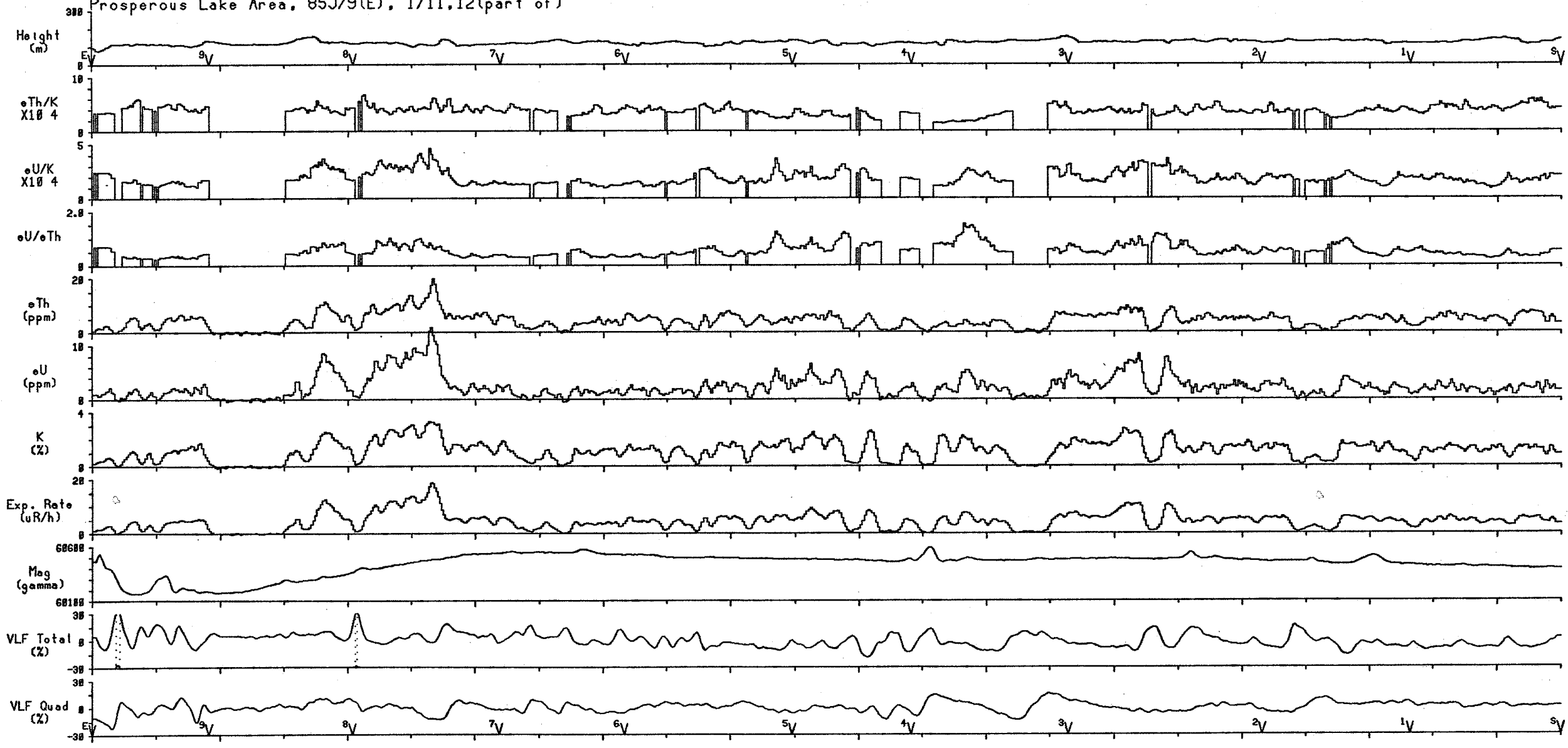
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11.12(part of)



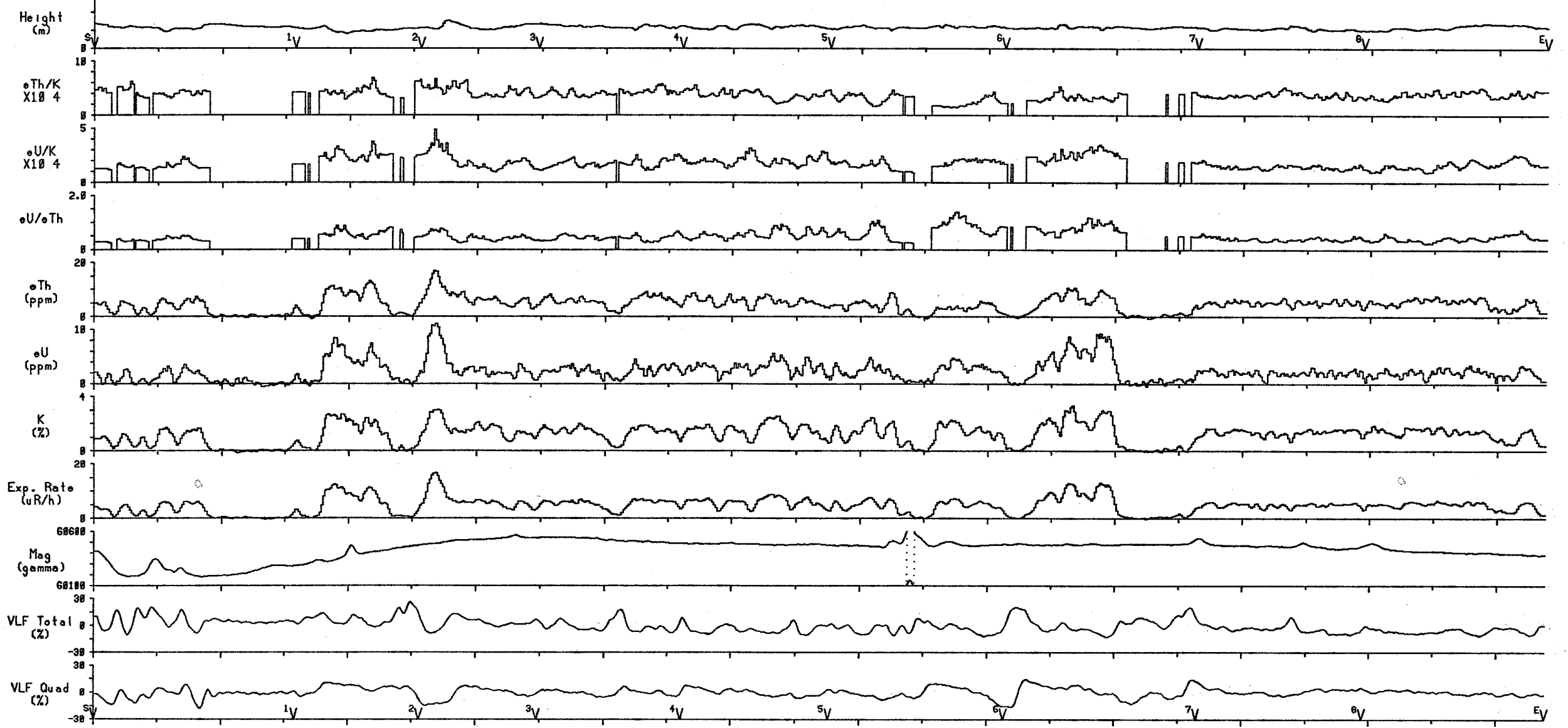
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



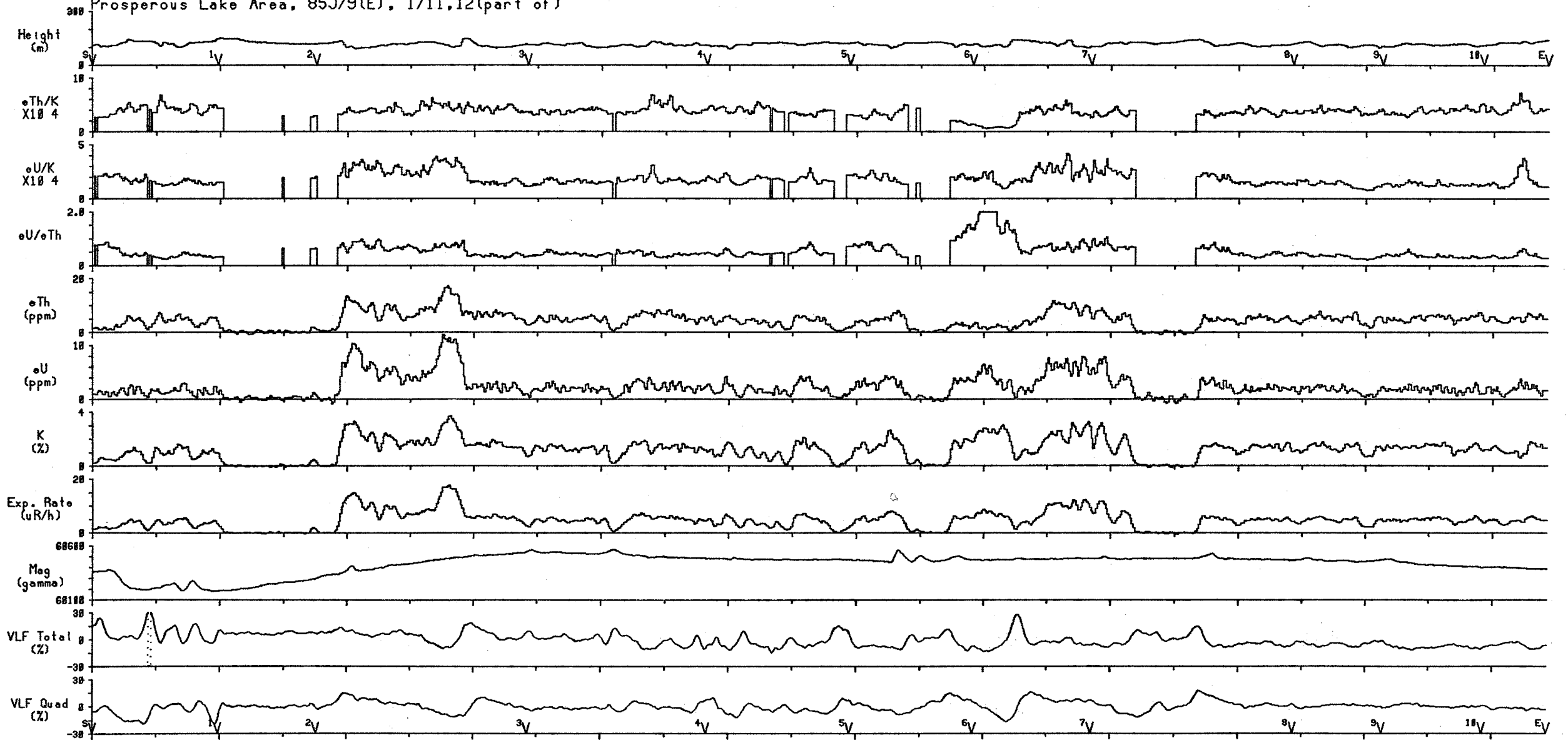
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11.12(part of)



Line 30 | 2 km | Scale 1:150000

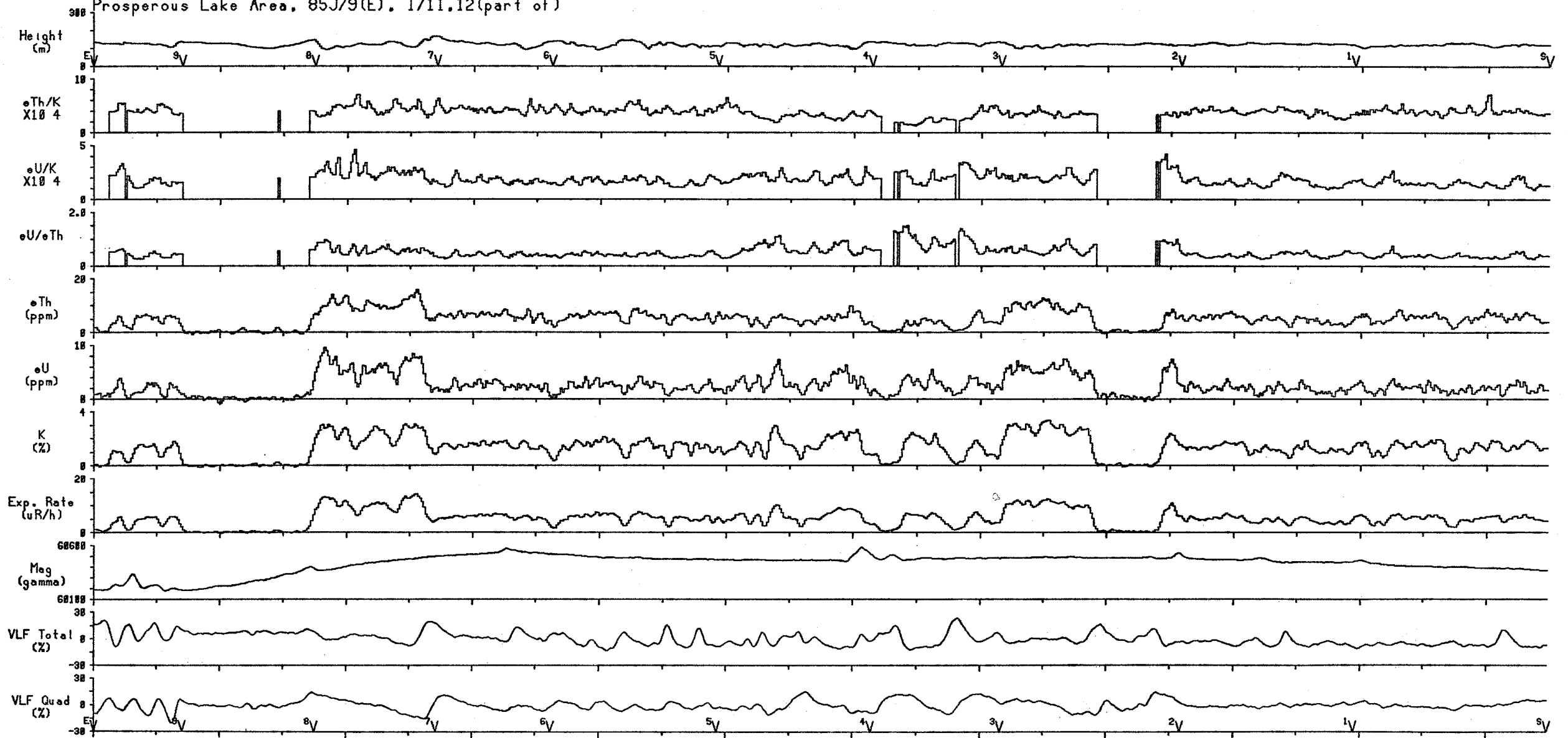
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Prosperous Lake Area, 85J/9(E), I/11.12(part of)



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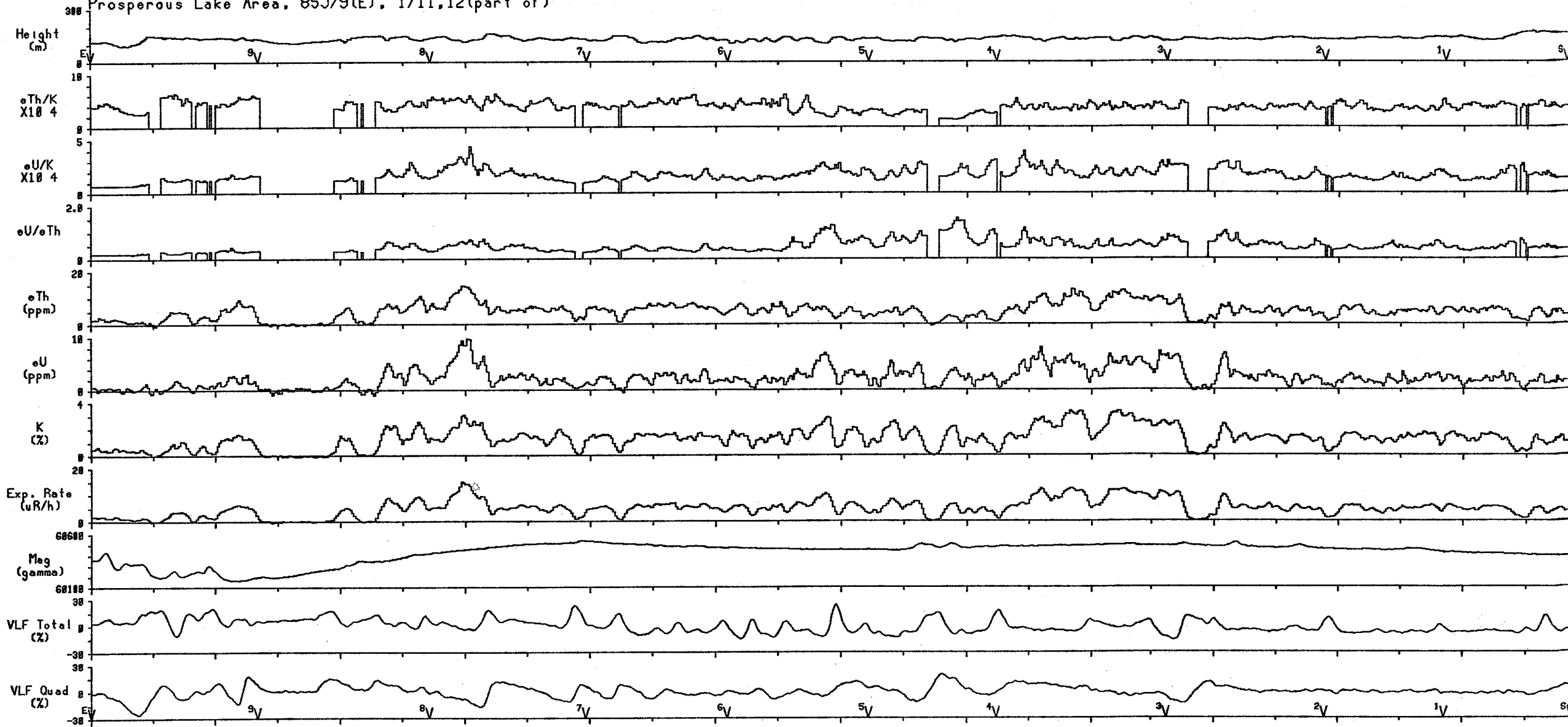
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Prosperous Lake Area, 85J/9(E). I/11.12(part of)



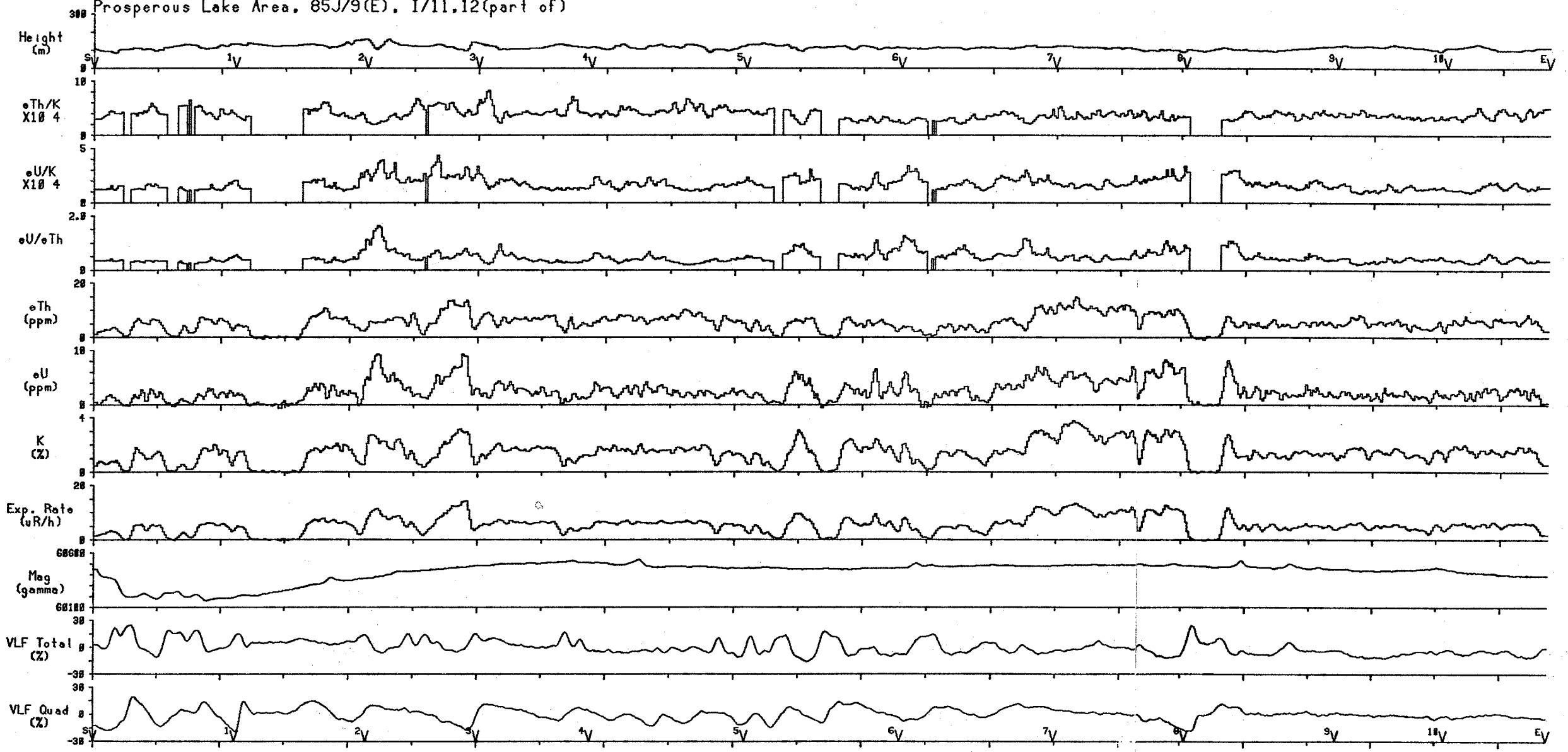
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Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



Line 33 | 2 km | Scale 1:150000

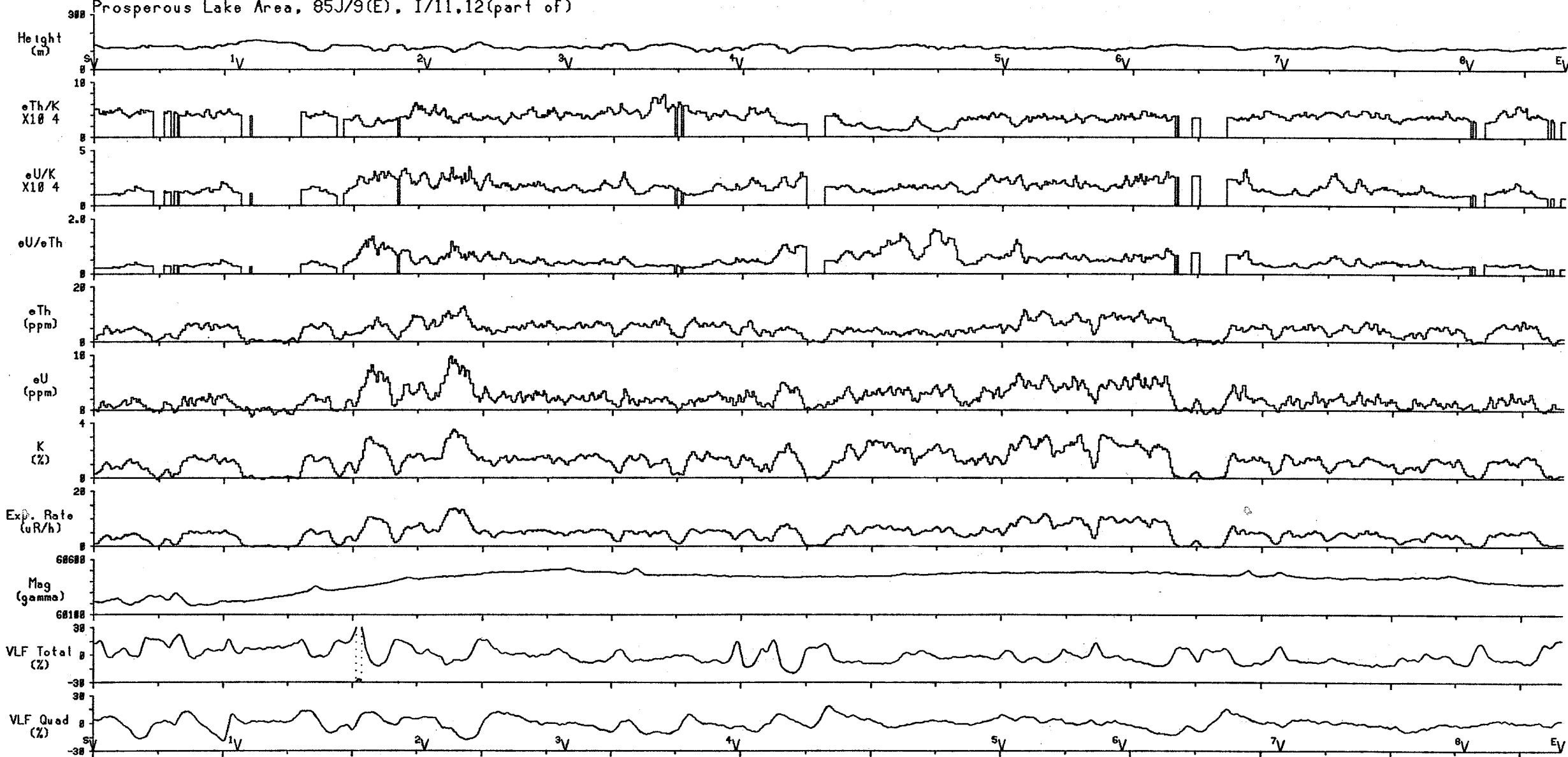
Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)



Line 34 | 2 km | Scale 1:150000

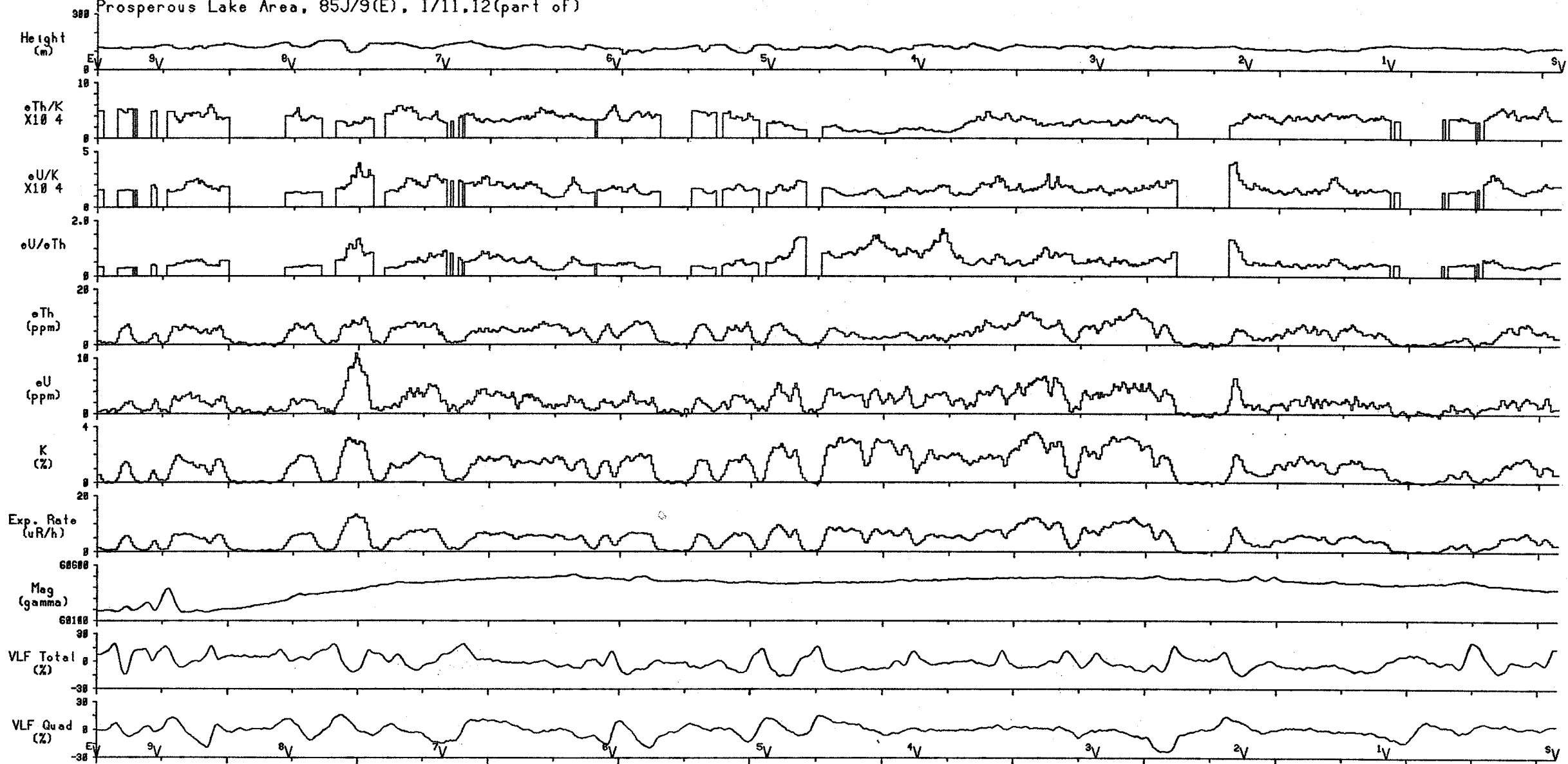
Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)

Prosperous Lake Area, 85J/9(E), I/11,12(part of)



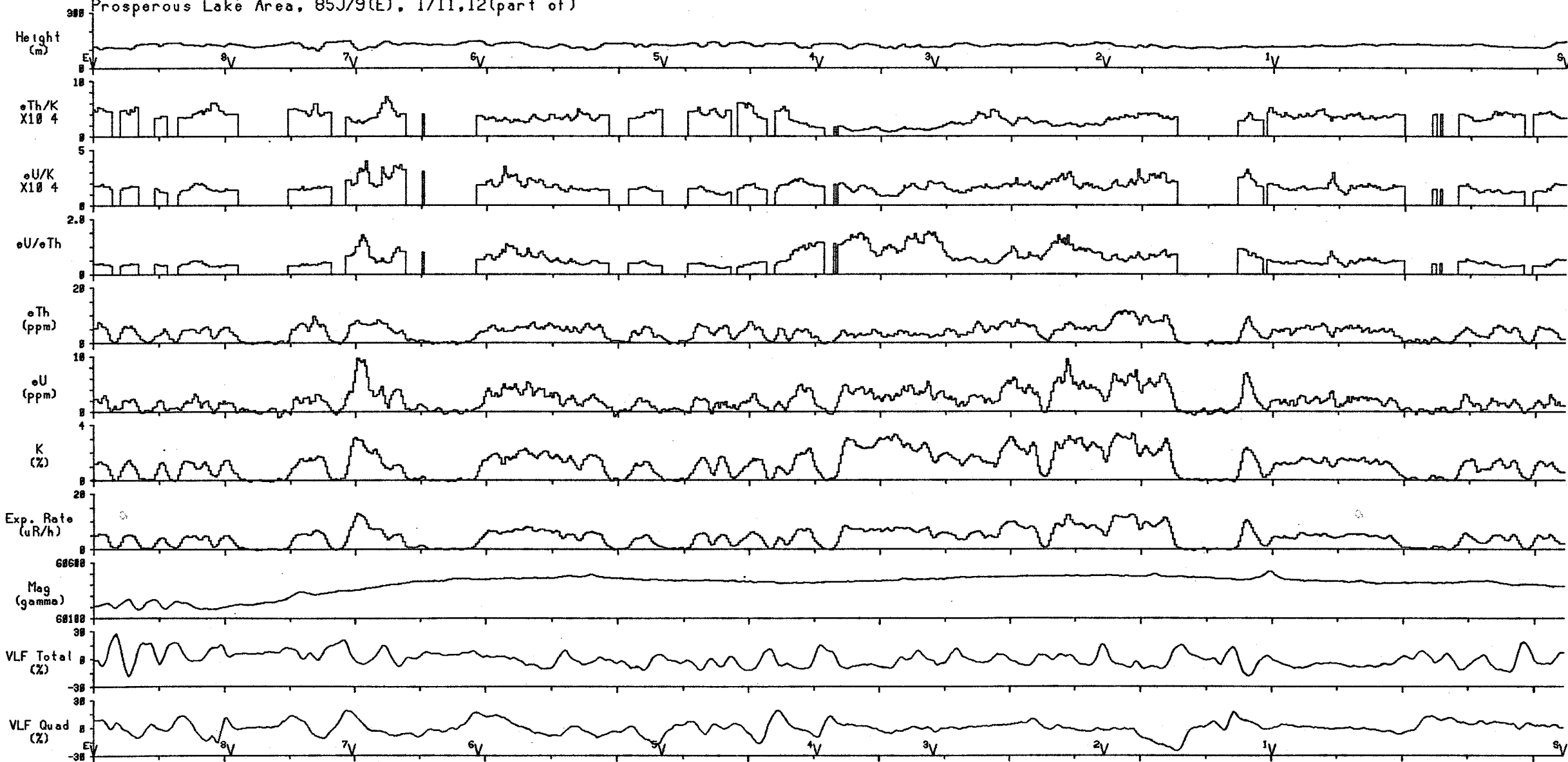
Line 35 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11.12(part of)



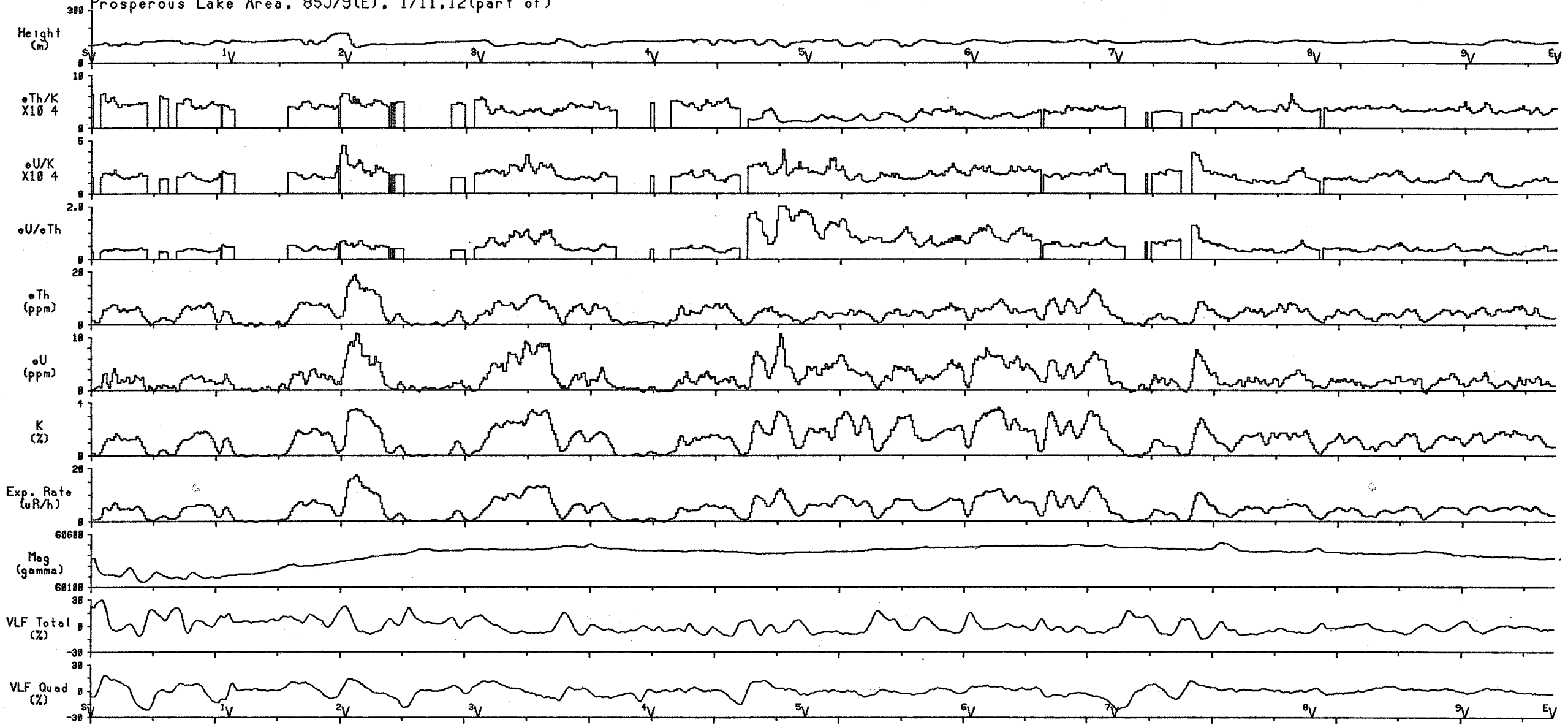
Line 36 2 km Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E). I/11,12(part of)



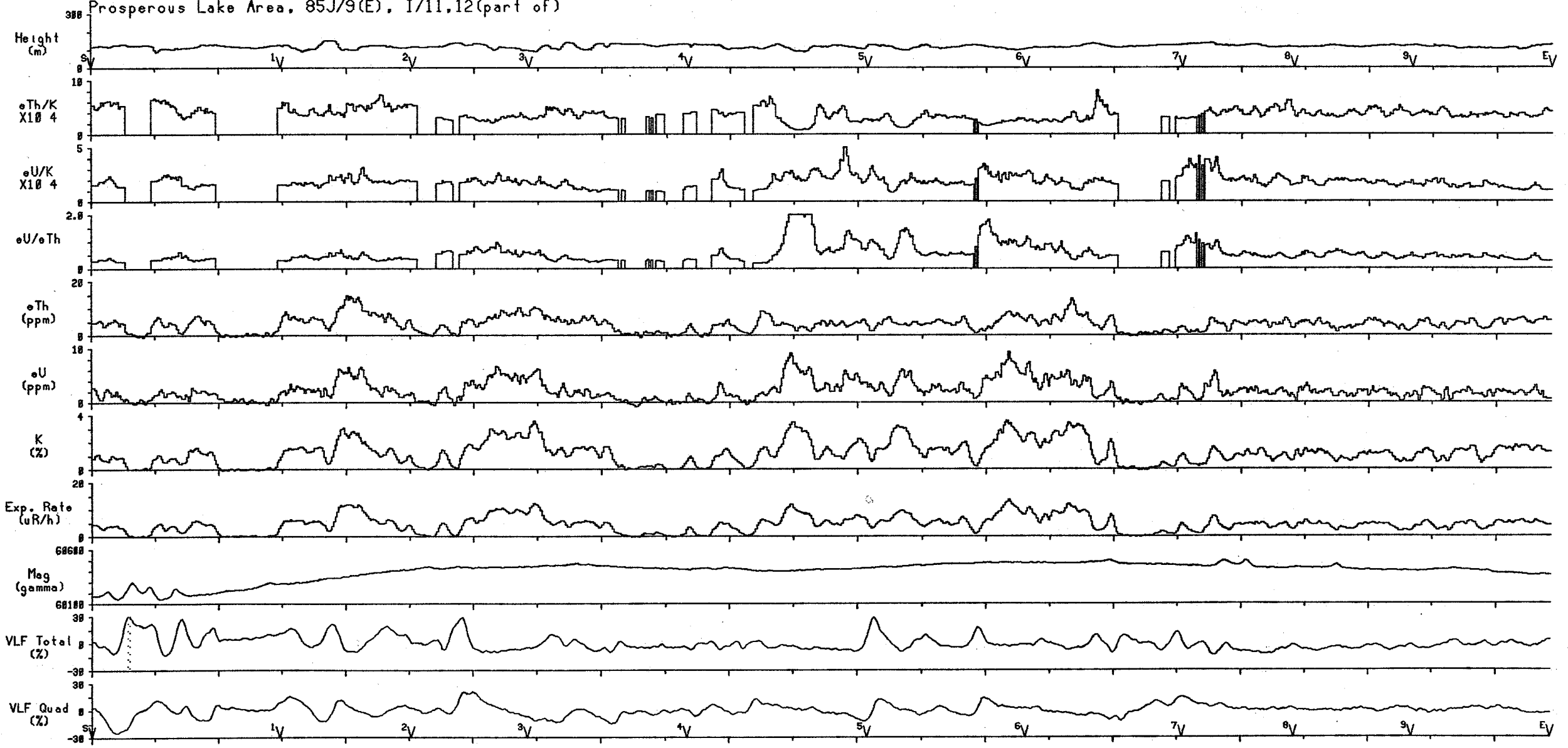
Line 37 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)



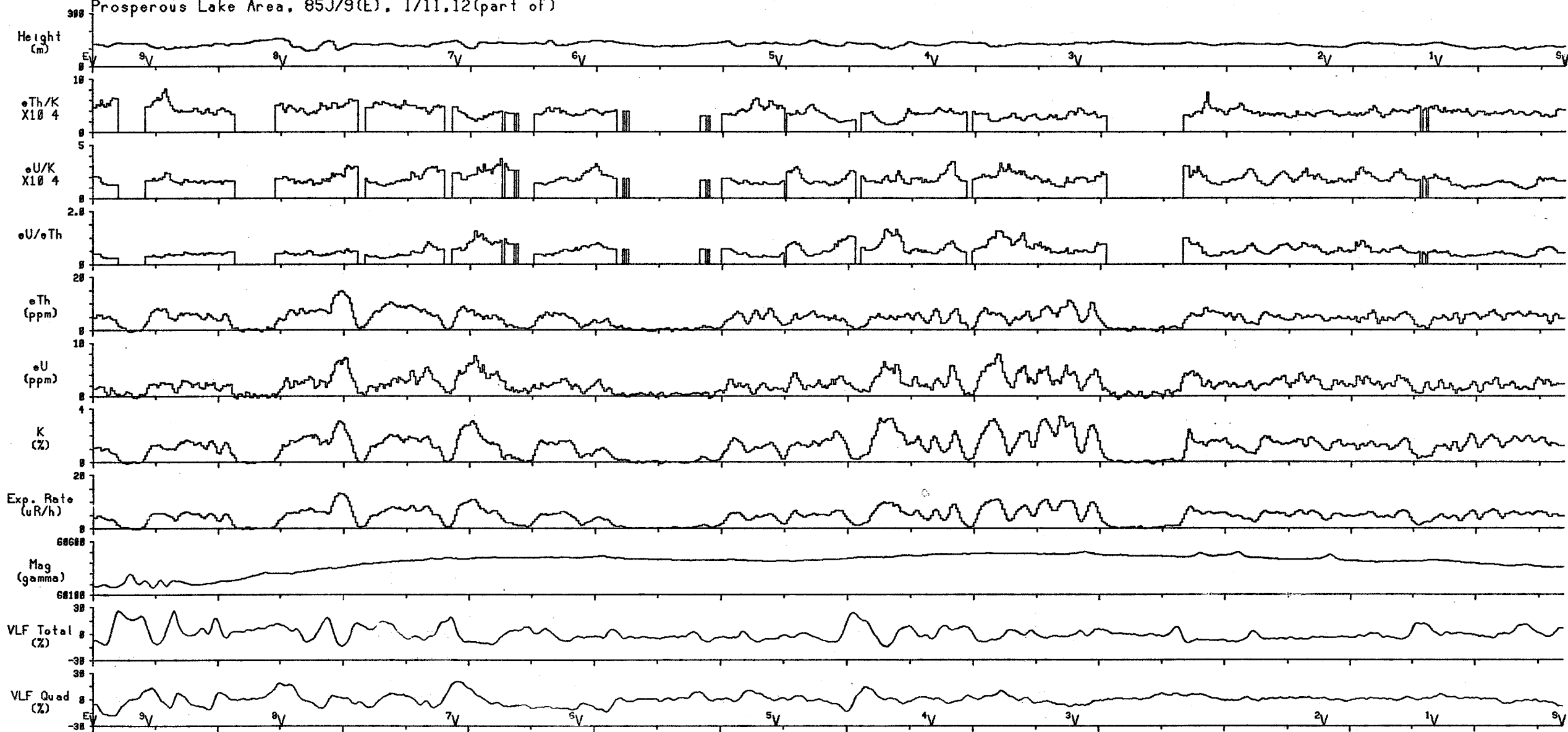
Line 38 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11,12(part of)



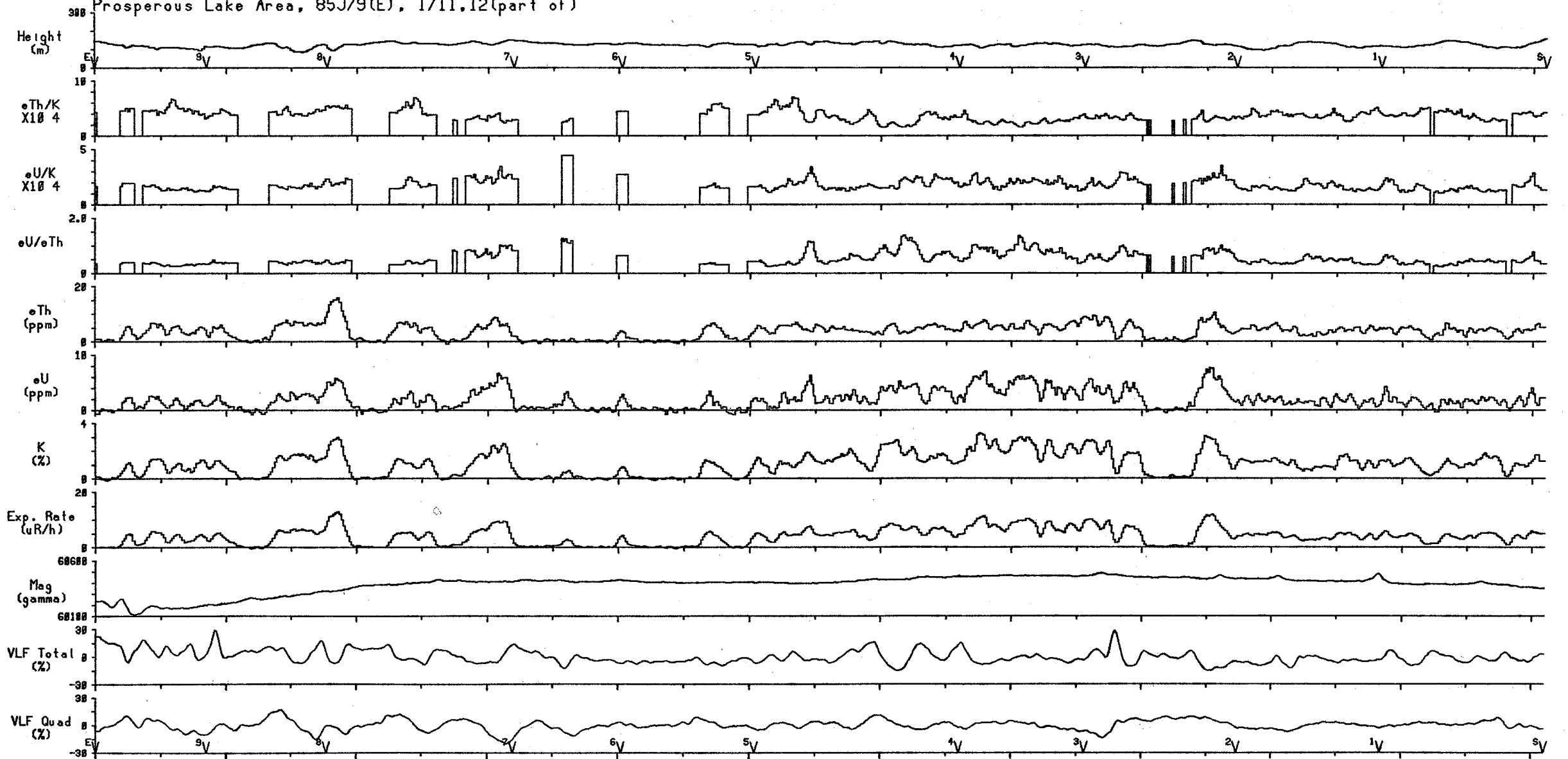
Line 39 | 2 km | Scale 1:150000

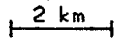
Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)



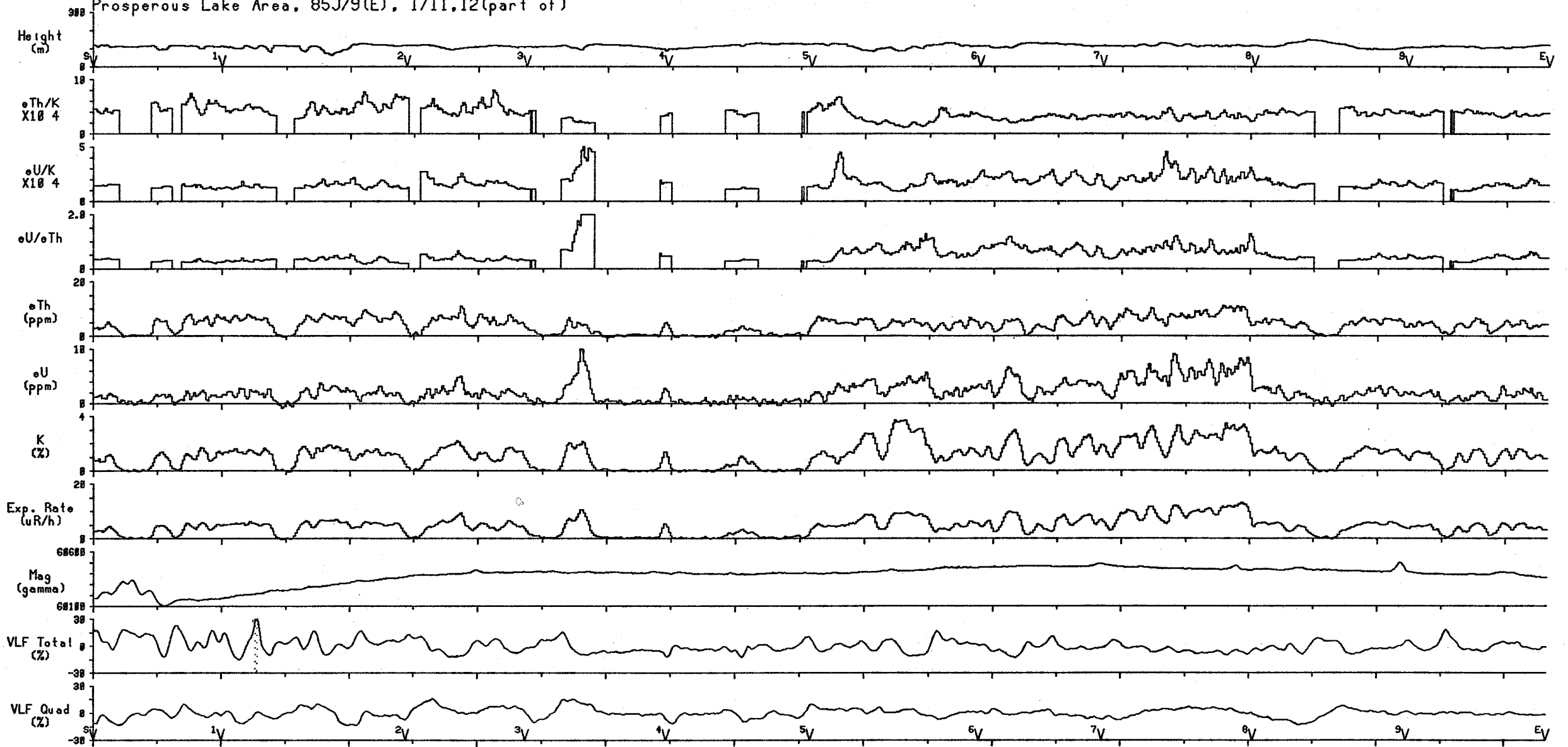
Line 40 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11.12(part of)



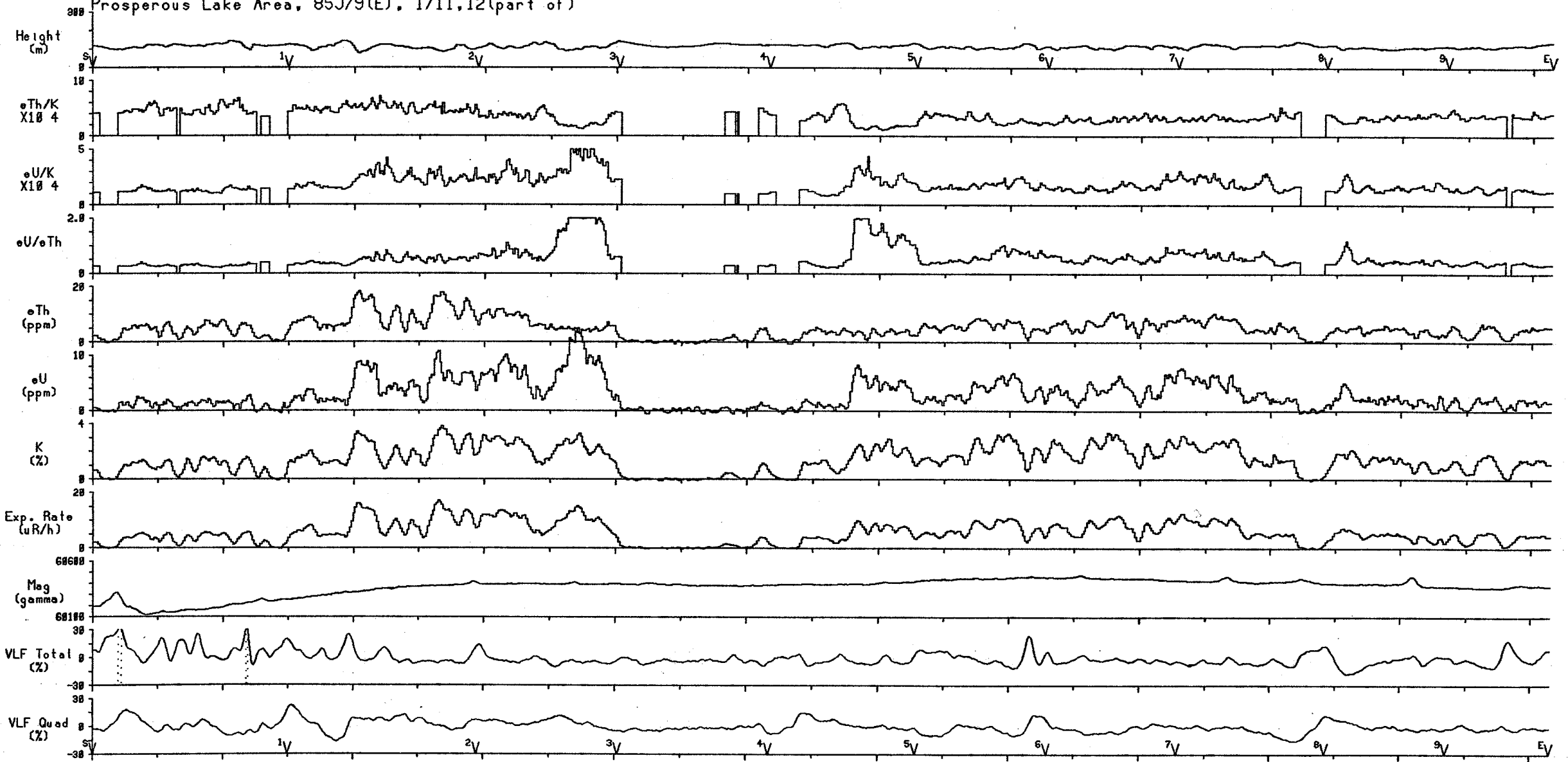
Line 41  Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11.12(part of)



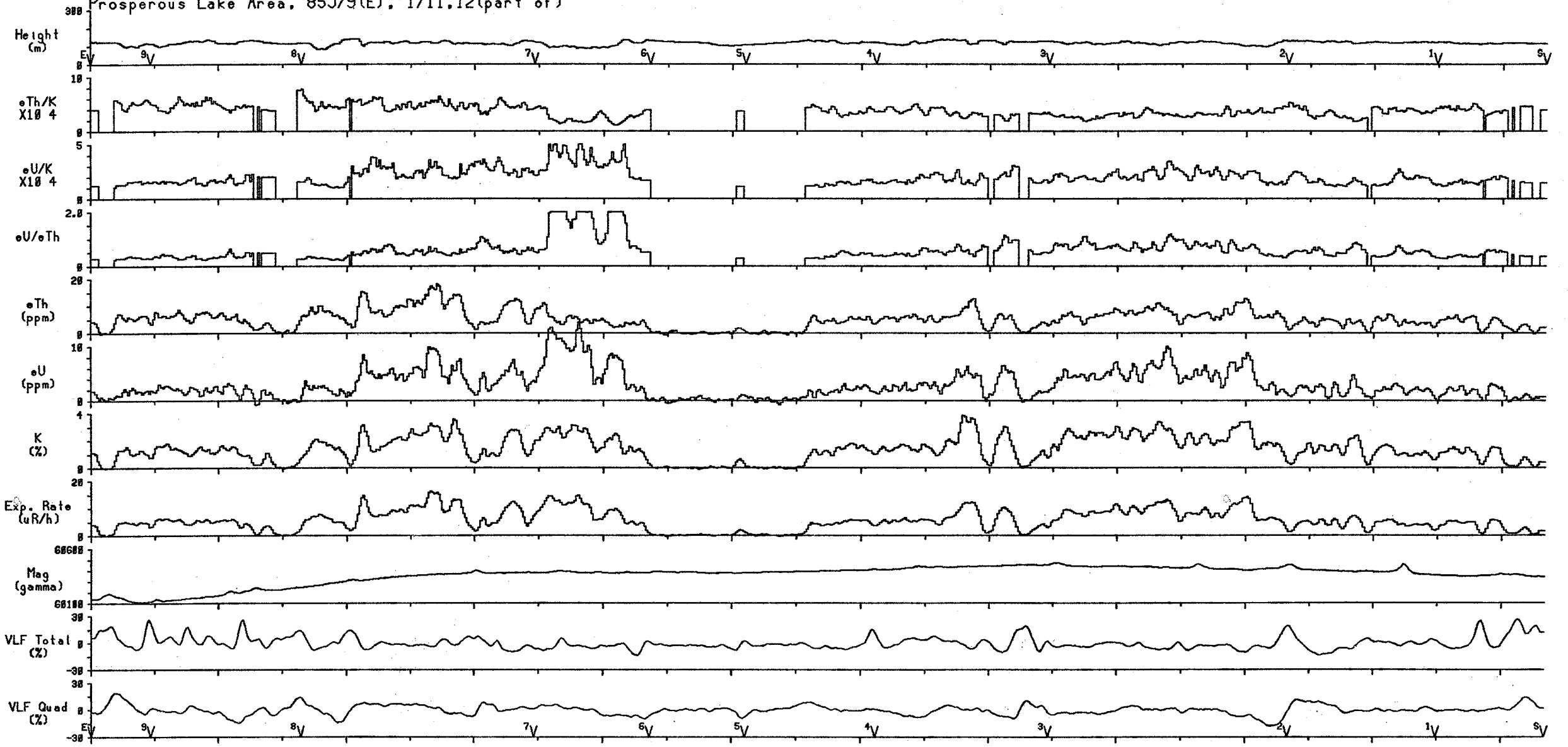
Line 42 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11,12(part of)



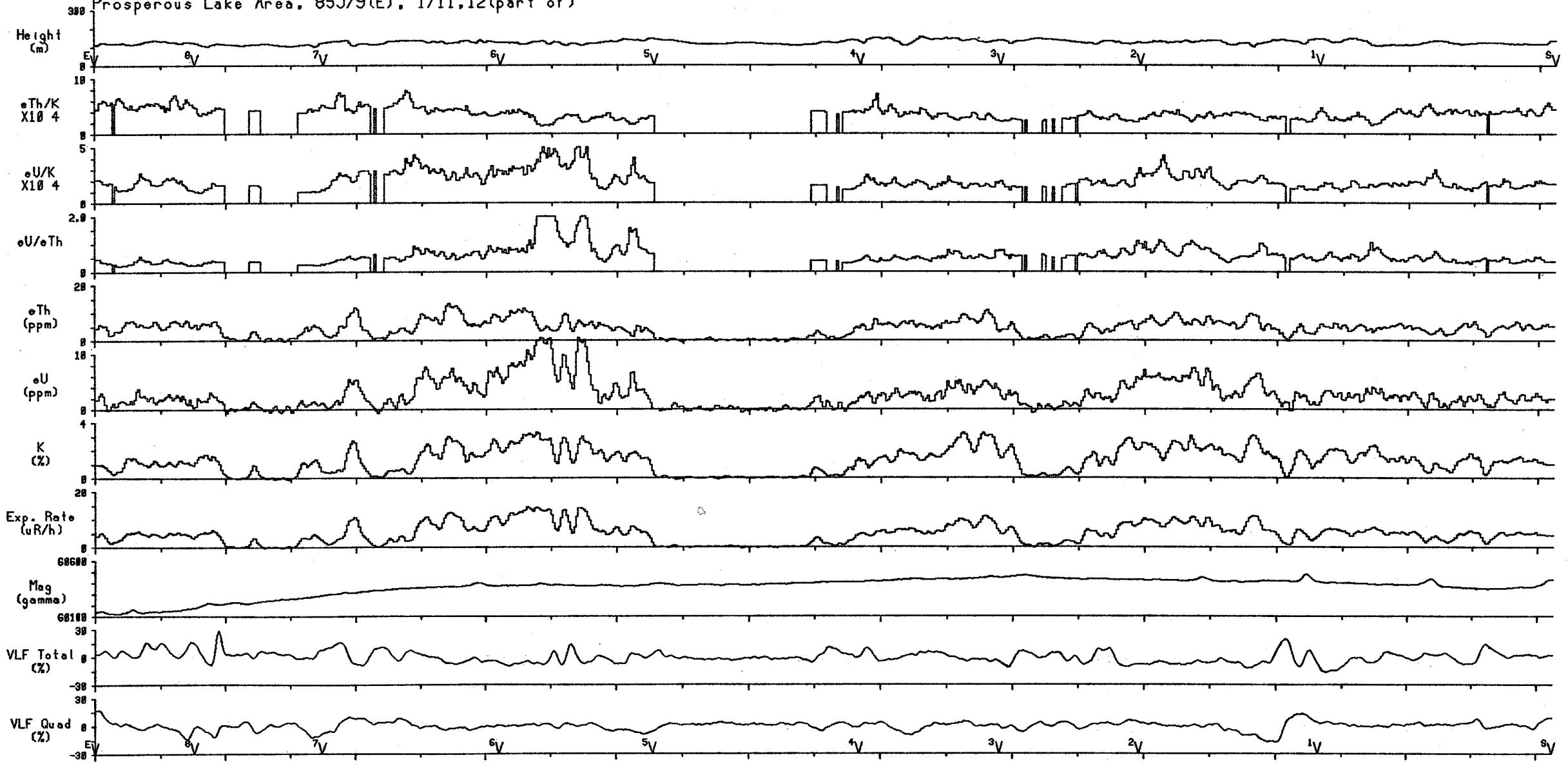
Line 43 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11.12(part of)



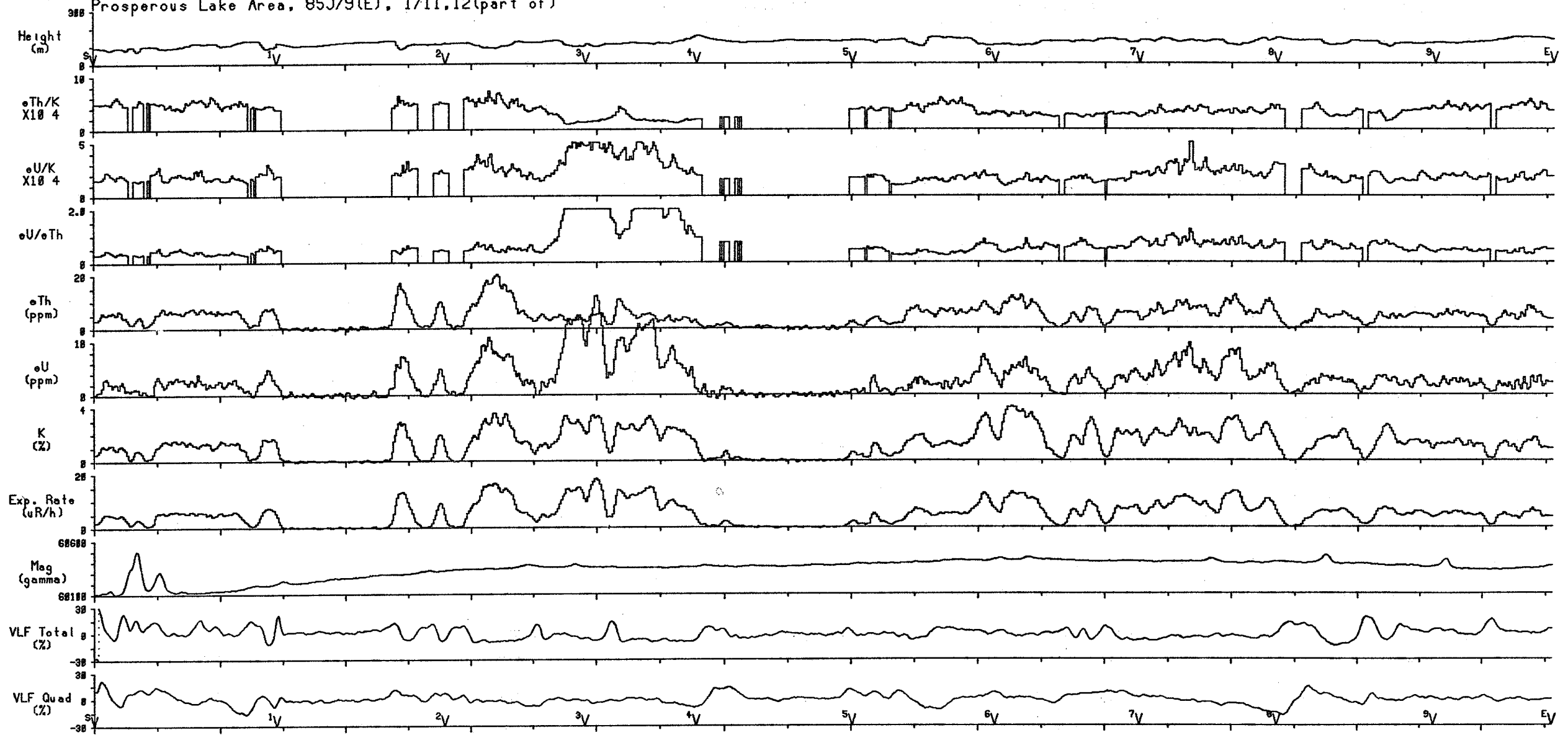
Line 44 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11.12(part of)



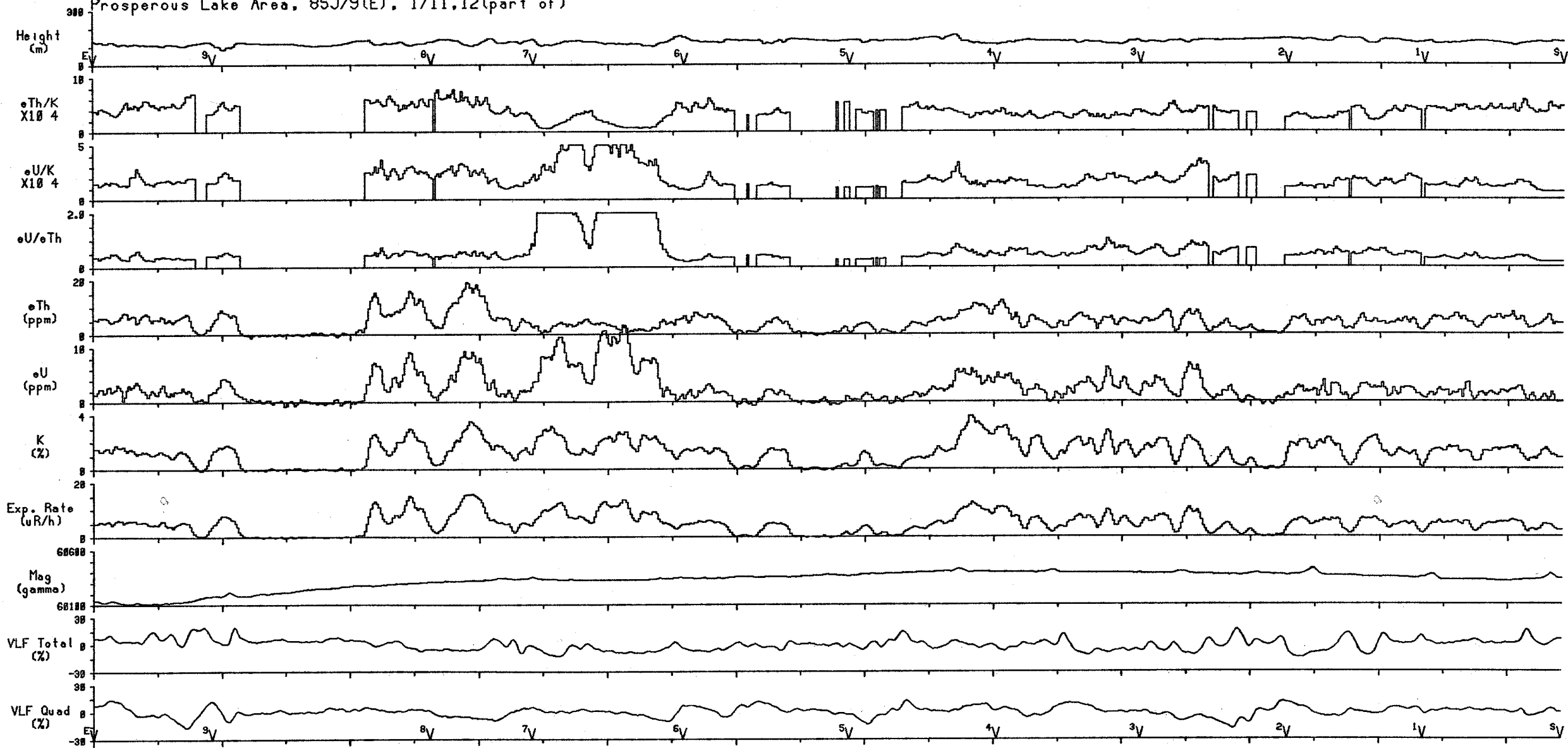
Line 45 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11,12(part of)



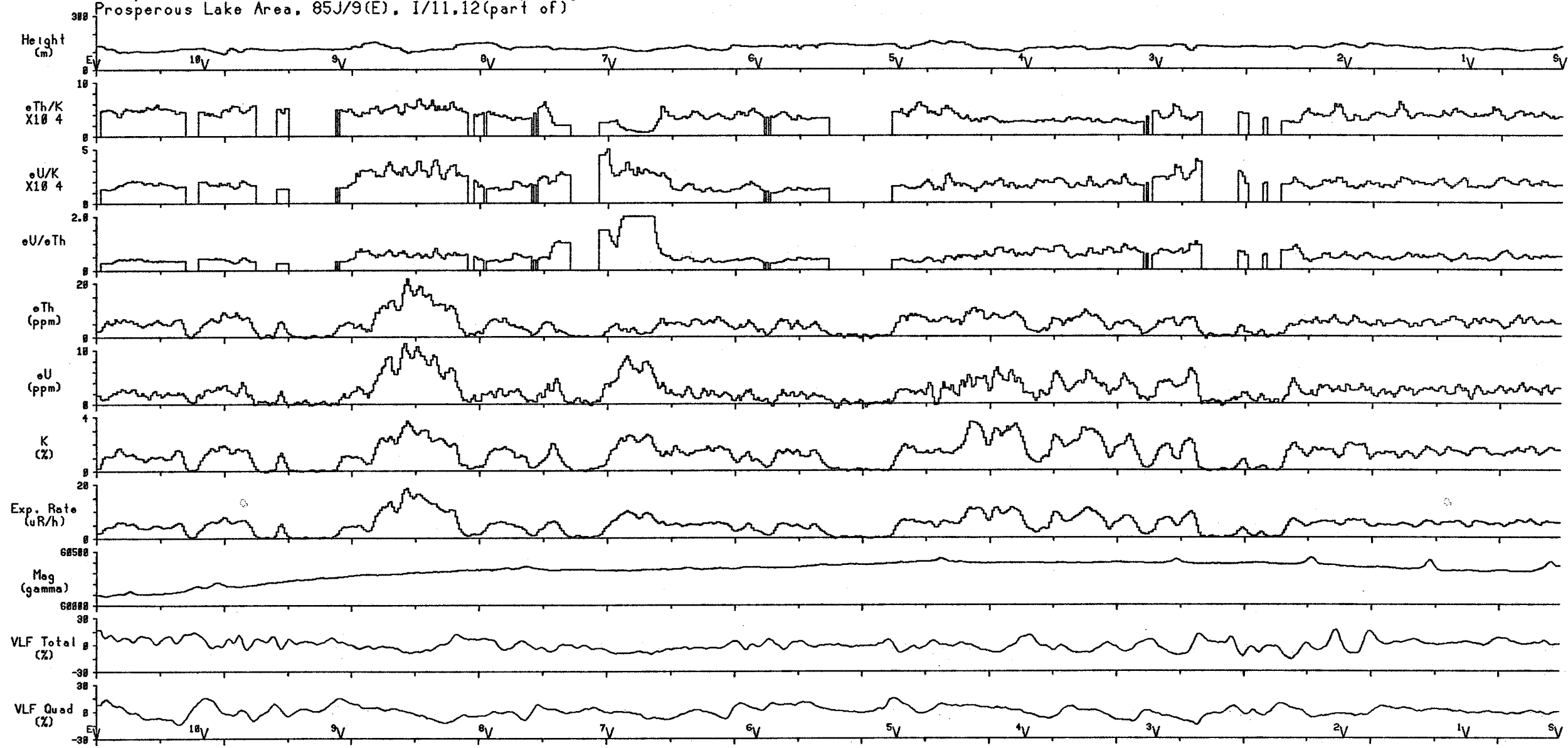
Line 46 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11.12(part of)



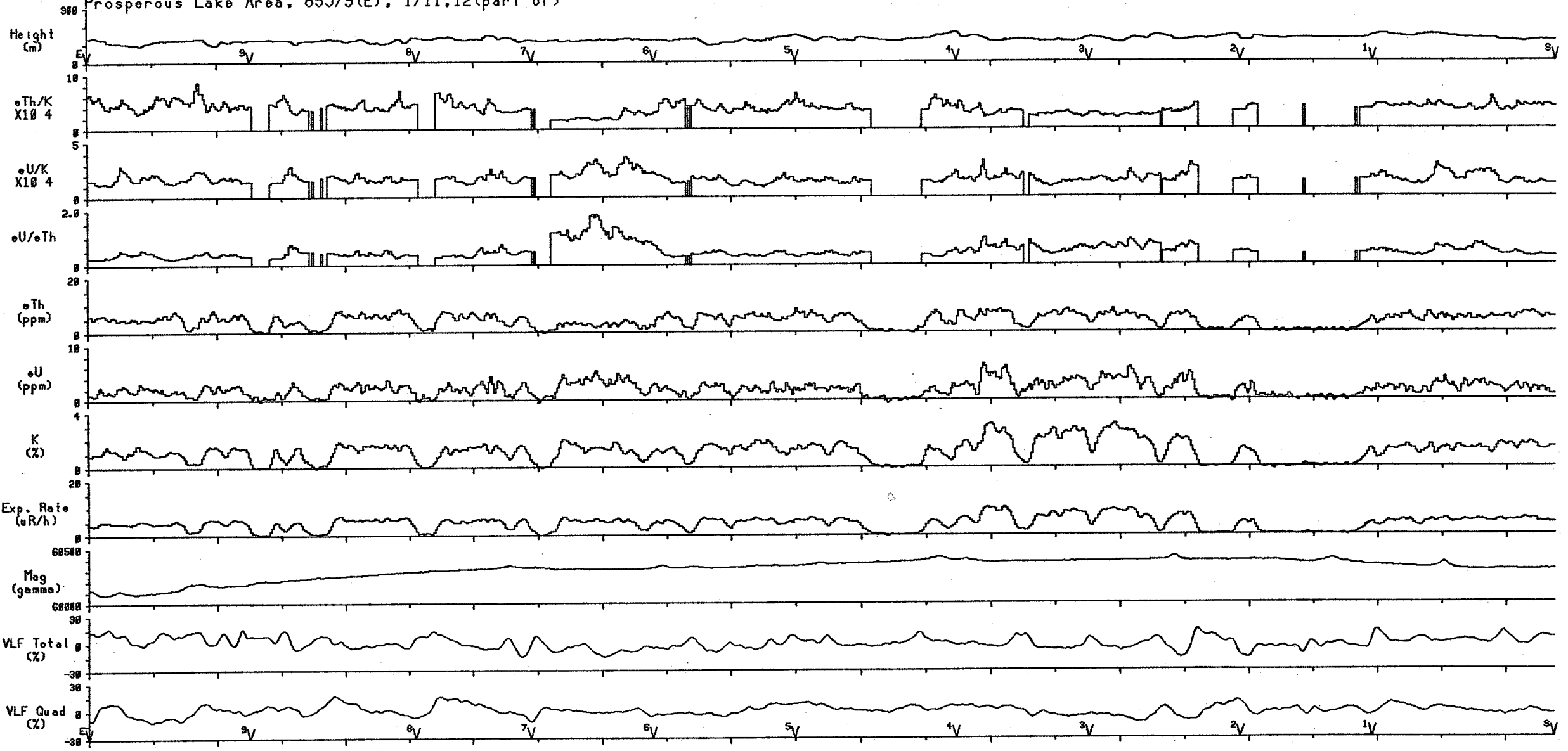
Line 47 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)



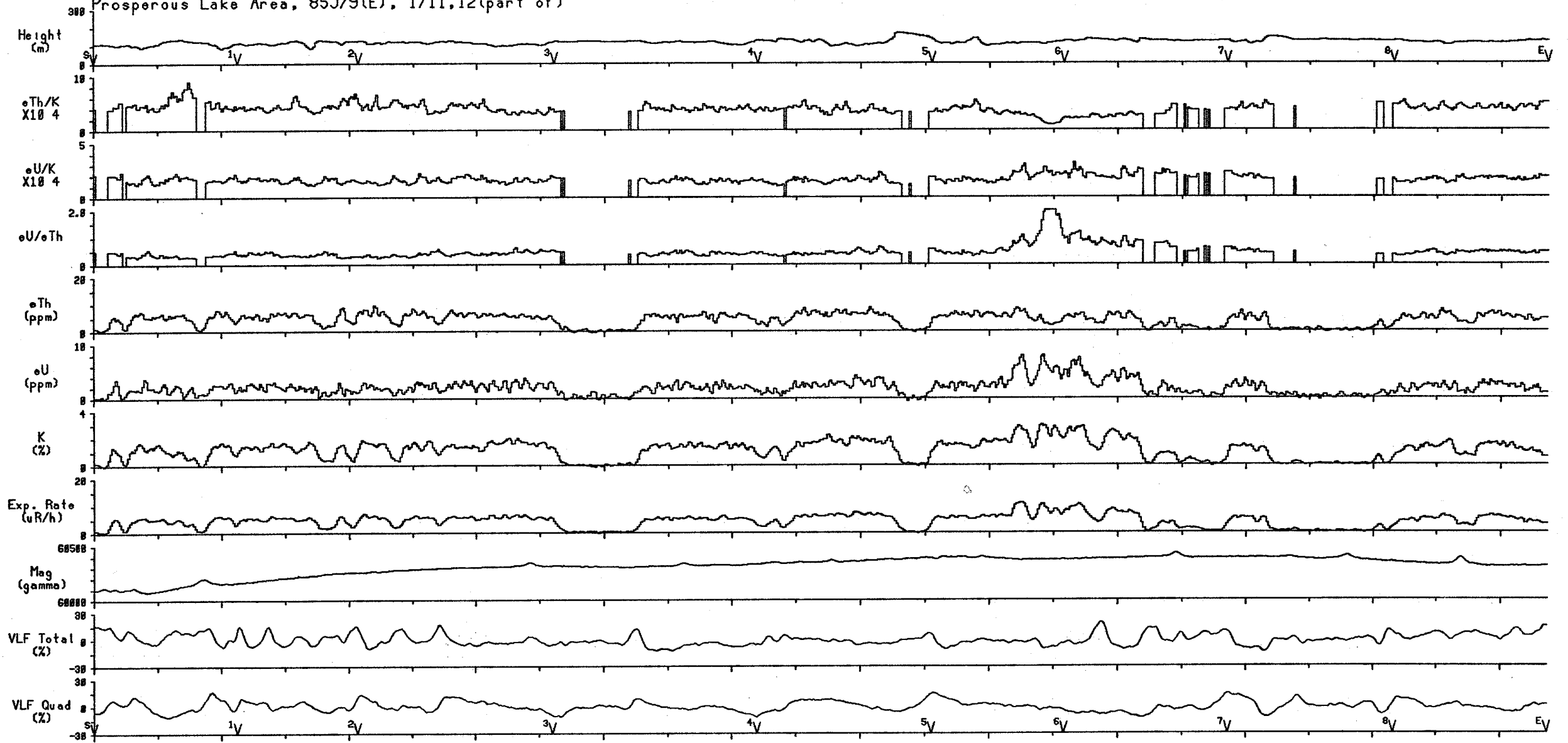
Line 48 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11,12(part of)



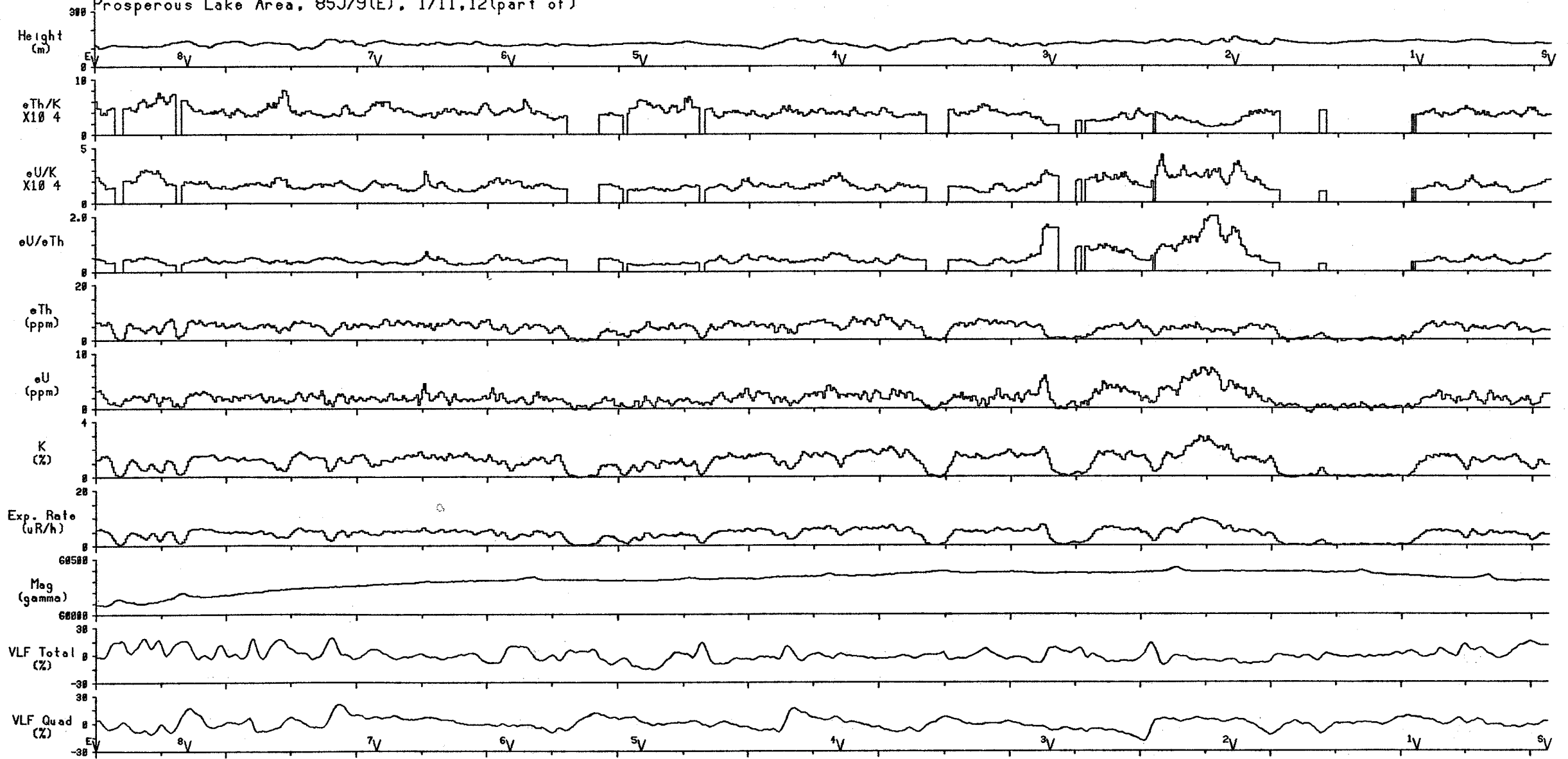
Line 49 2 km Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)



Line 50 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11,12(part of)

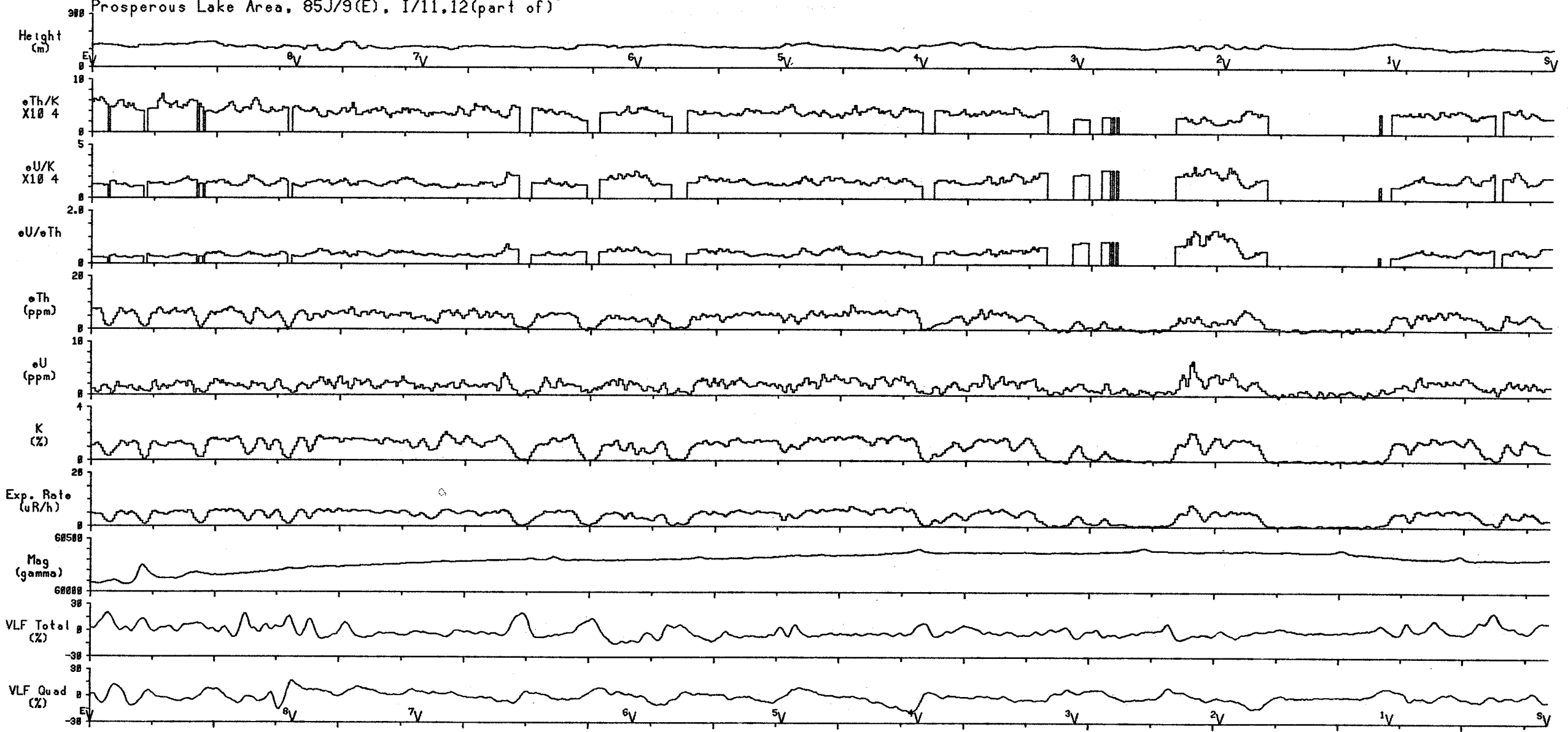


Line 51

2 km

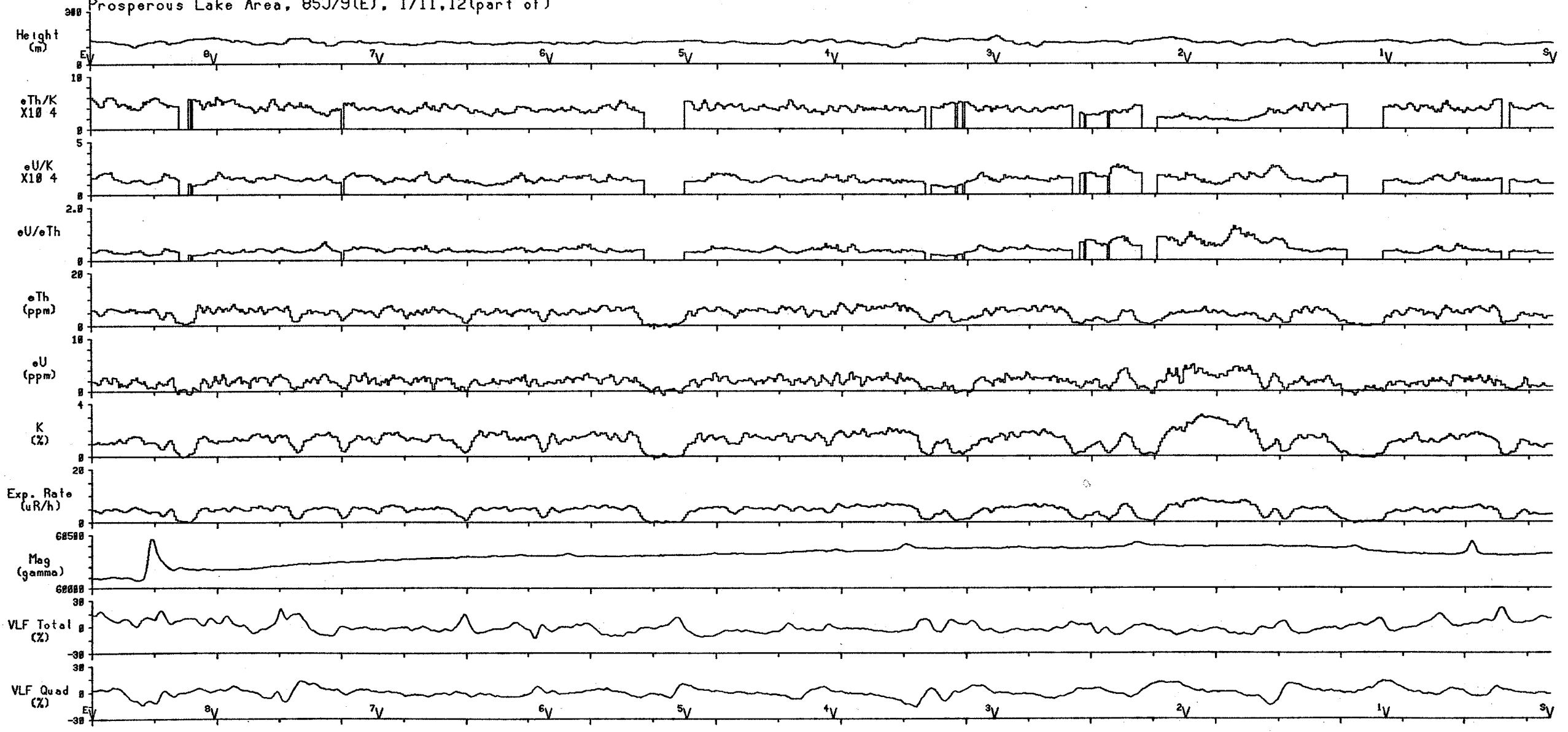
Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11.12(part of)



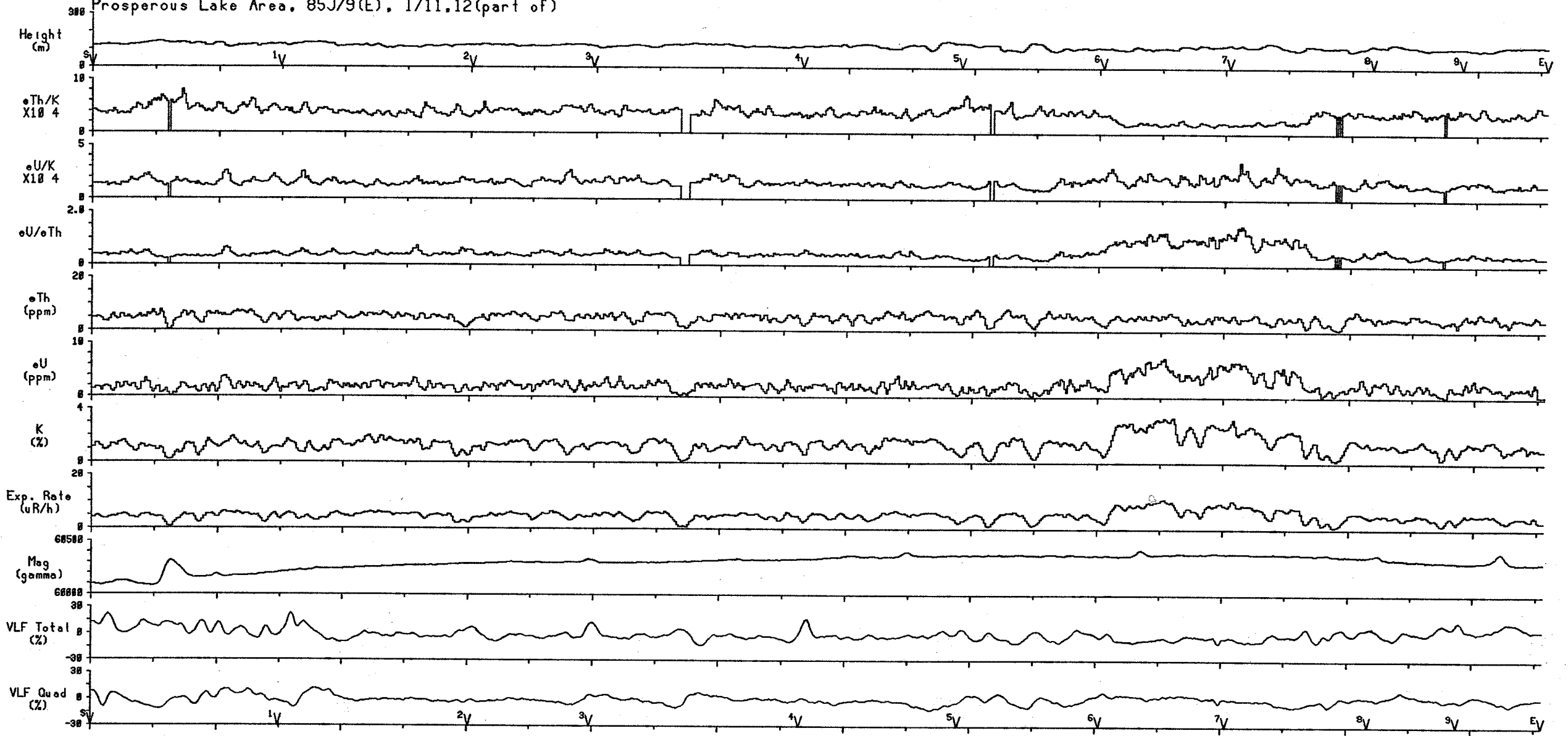
Line 52 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11,12(part of)



Line 53 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11.12(part of)

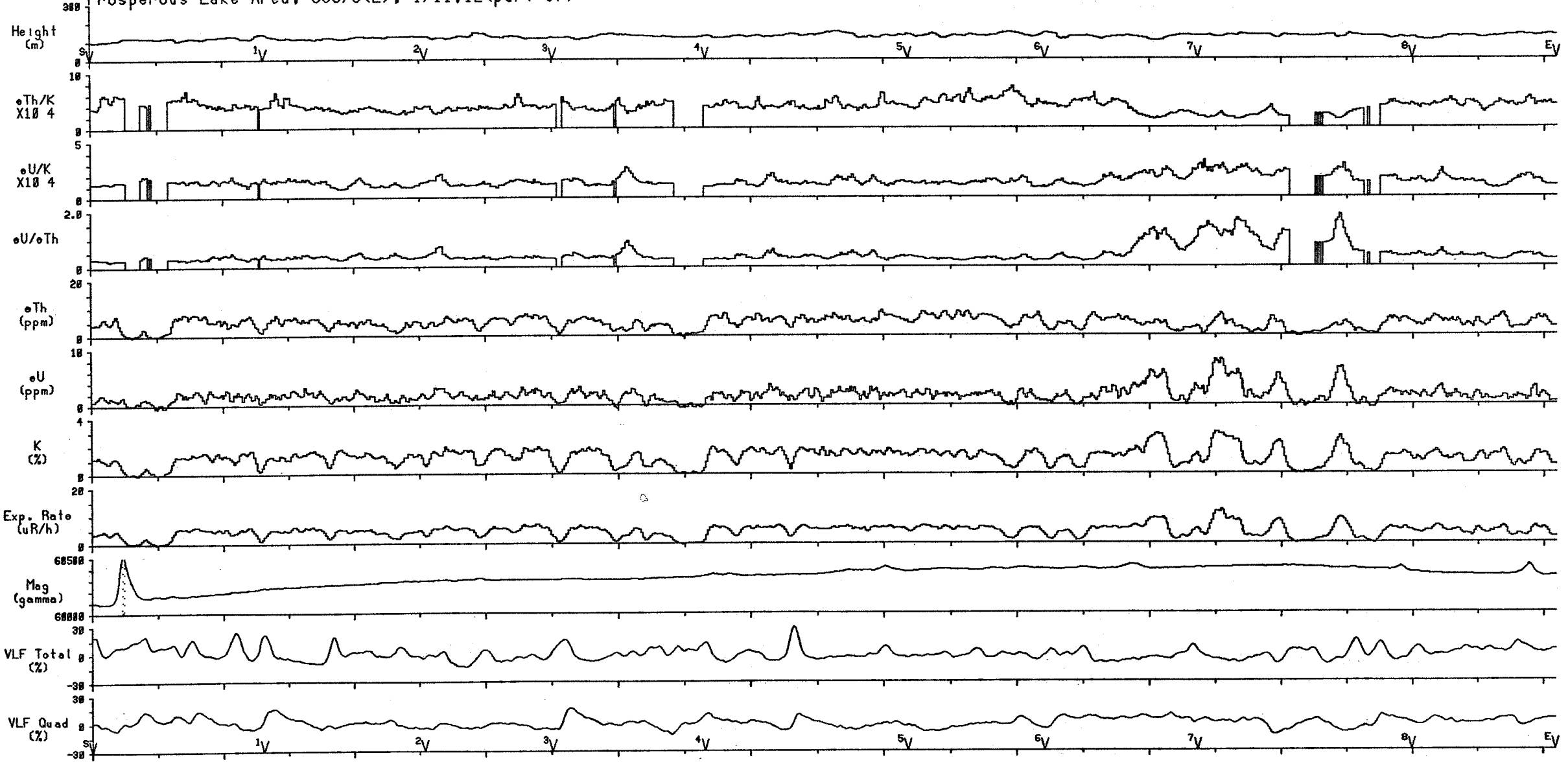


Line 54

2 km

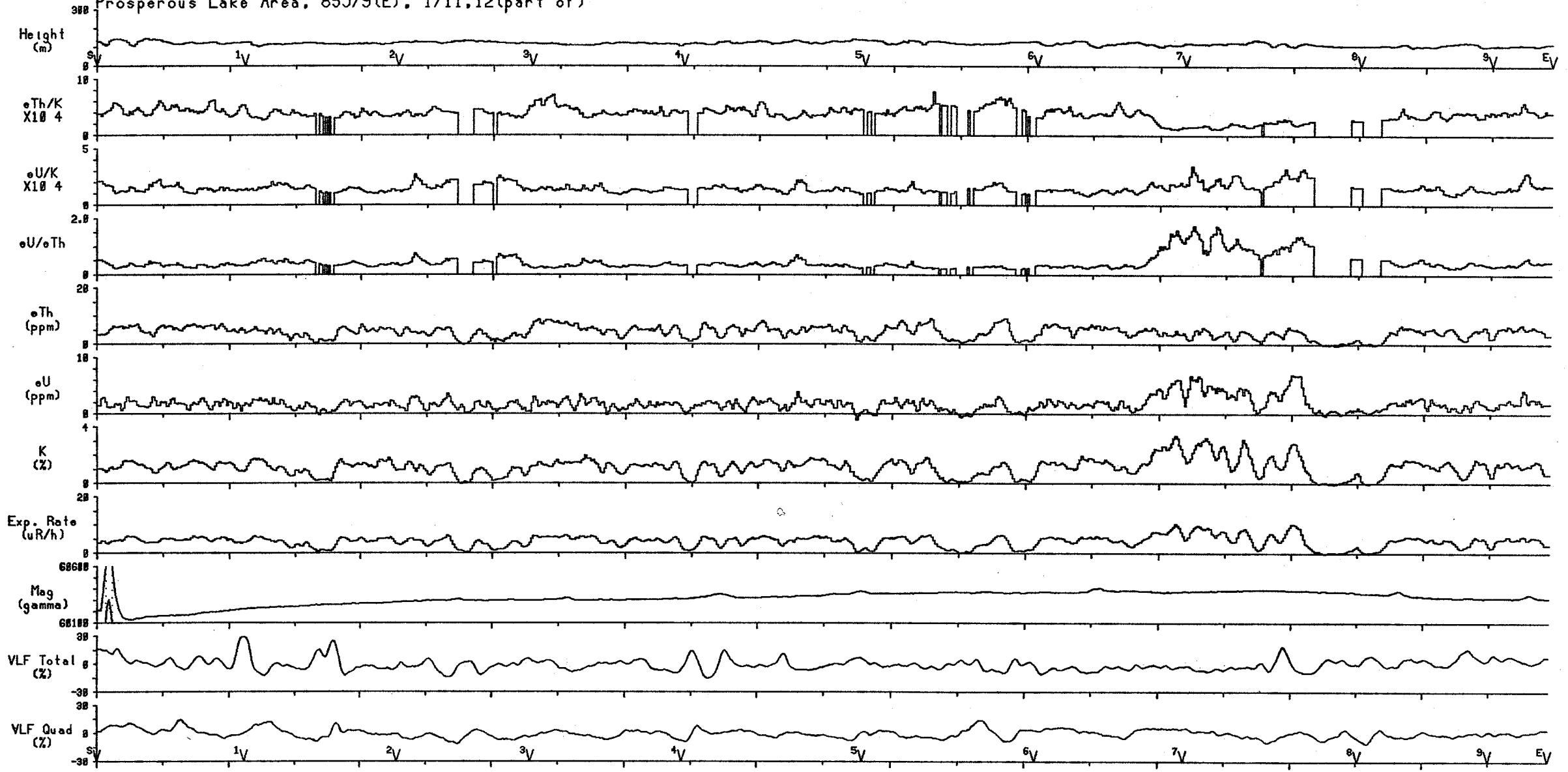
Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



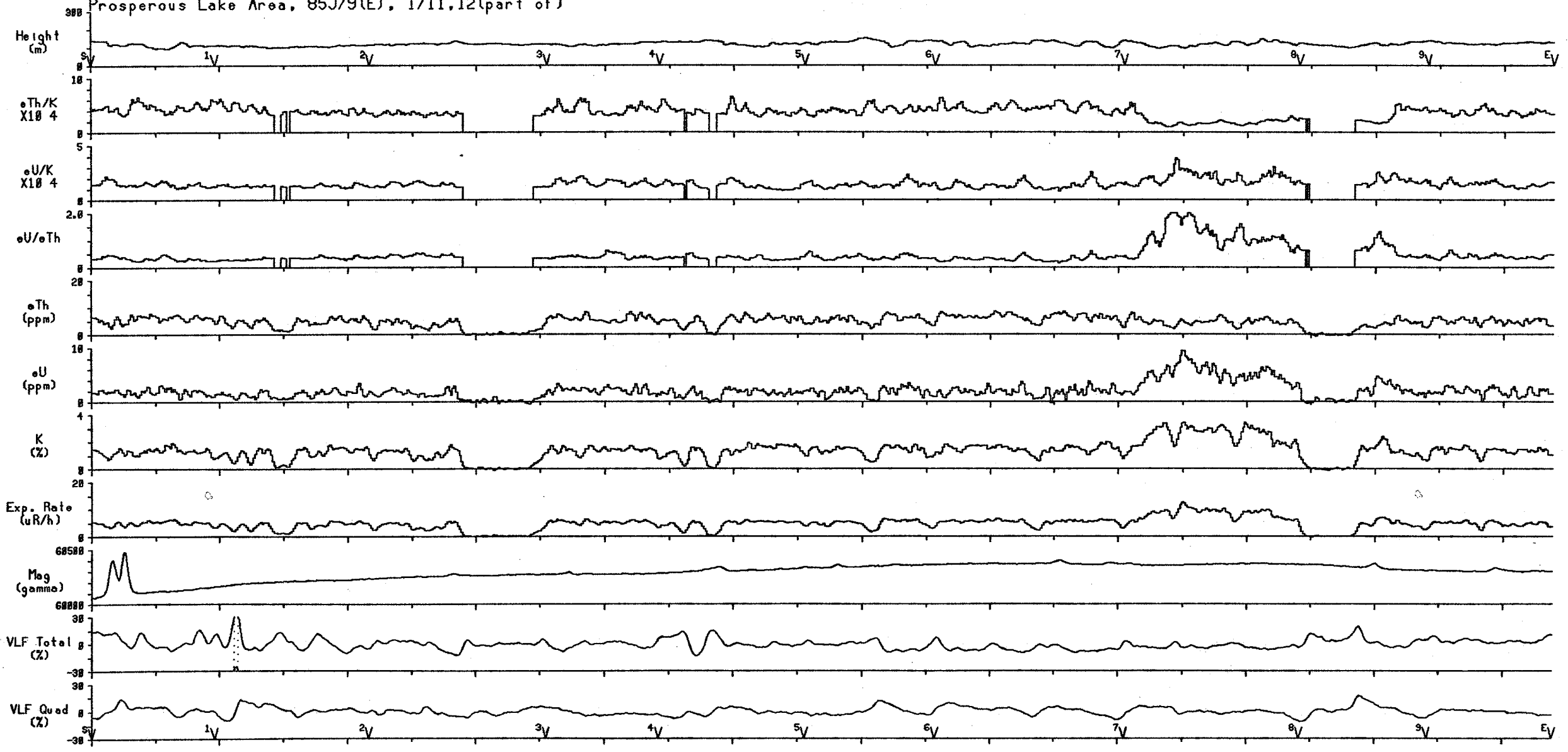
Line 55 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)



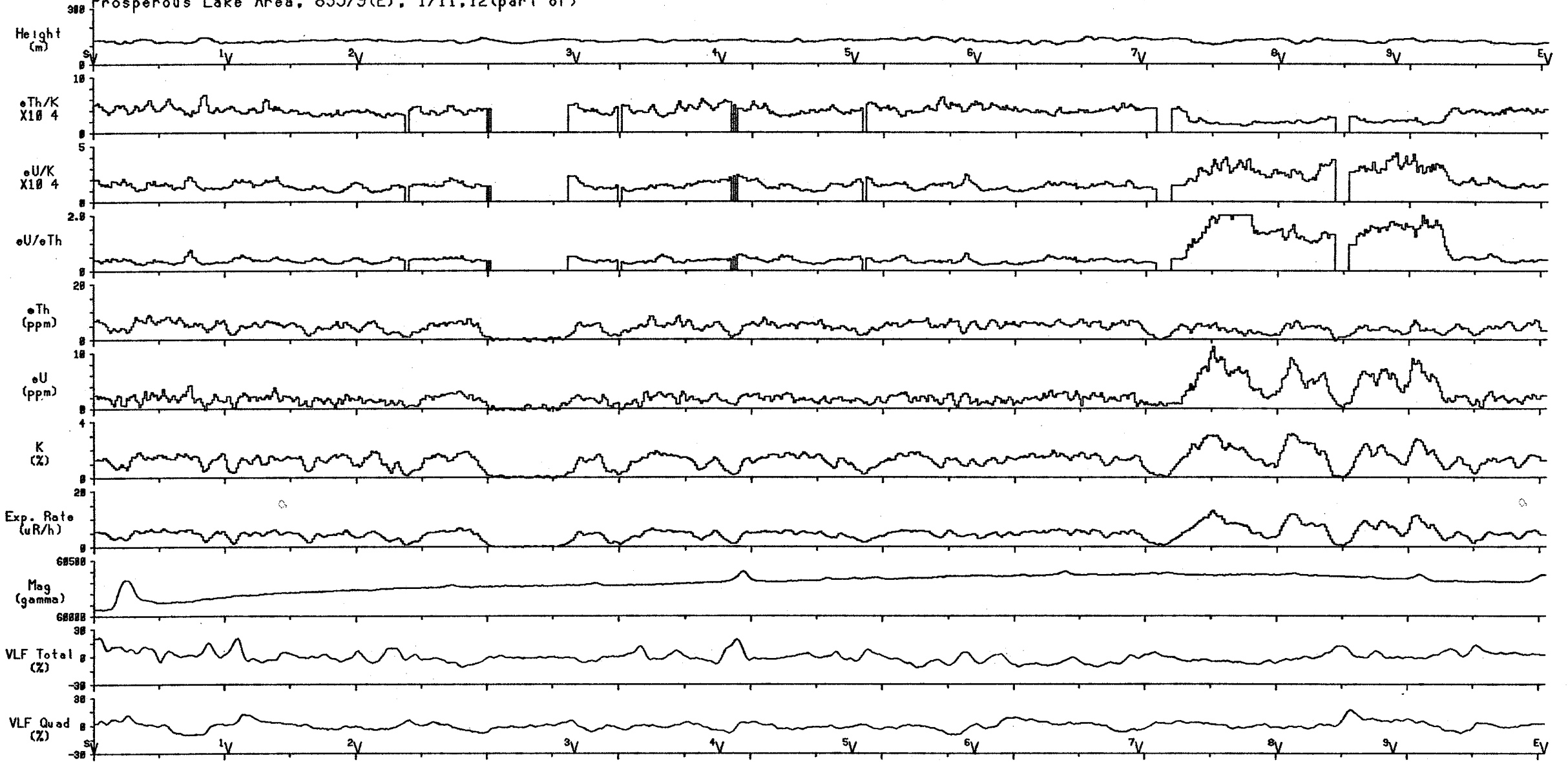
Line 56 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



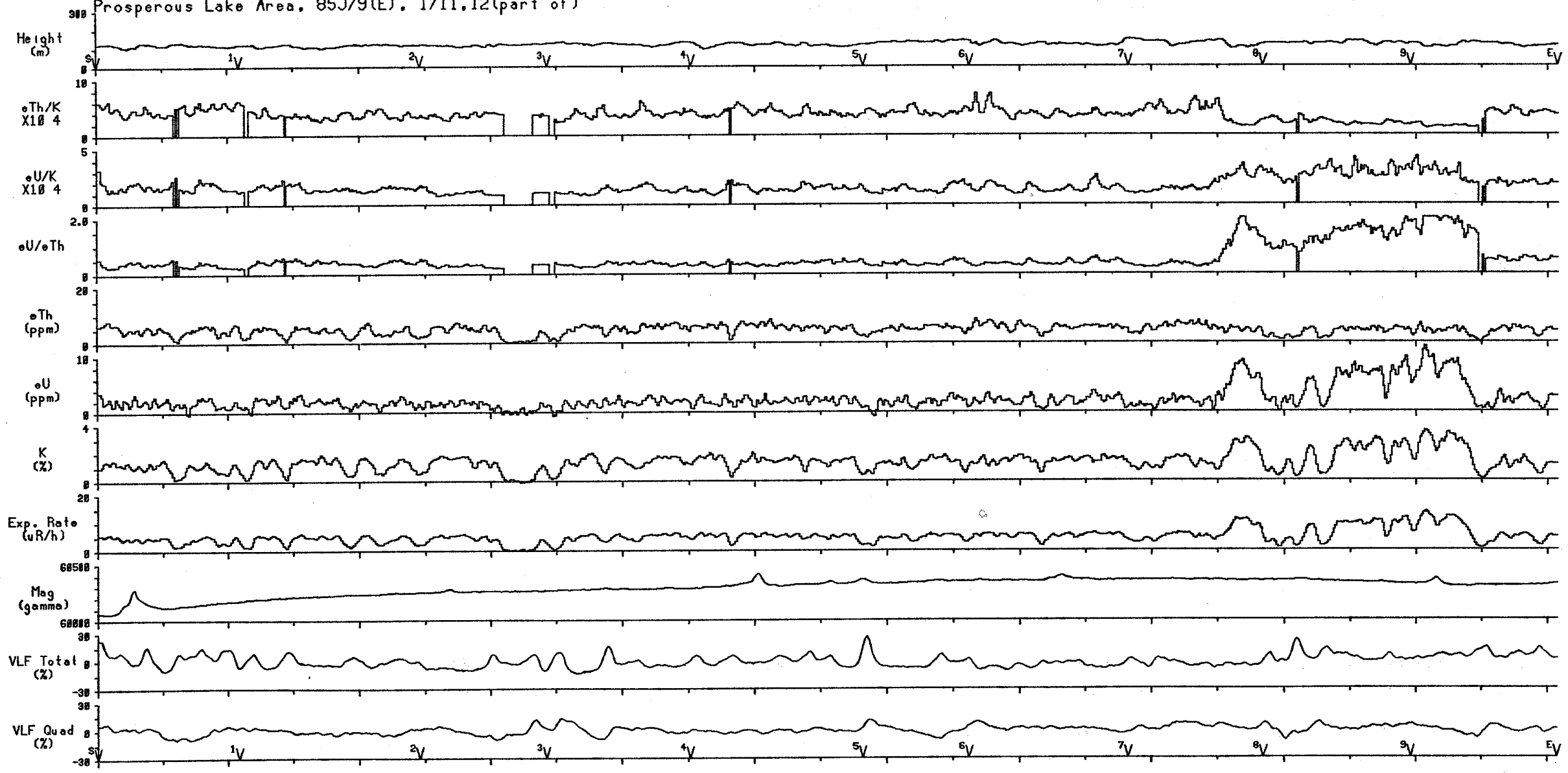
Line 57 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)



Line 58 | 2 km | Scale 1:150000

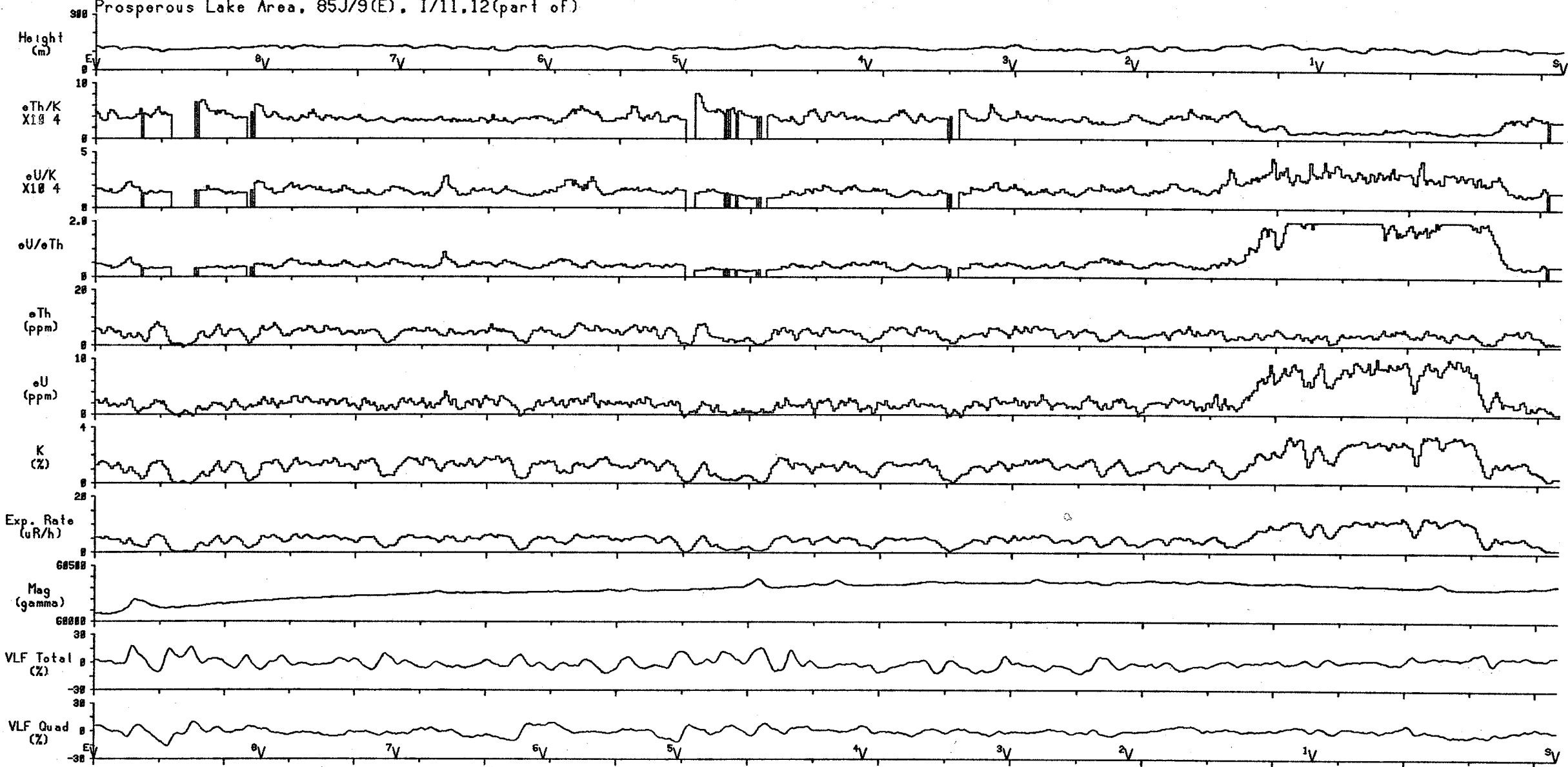
Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11.12(part of)



Line 59 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)

Prosperous Lake Area, 85J/9(E), I/11,12(part of)

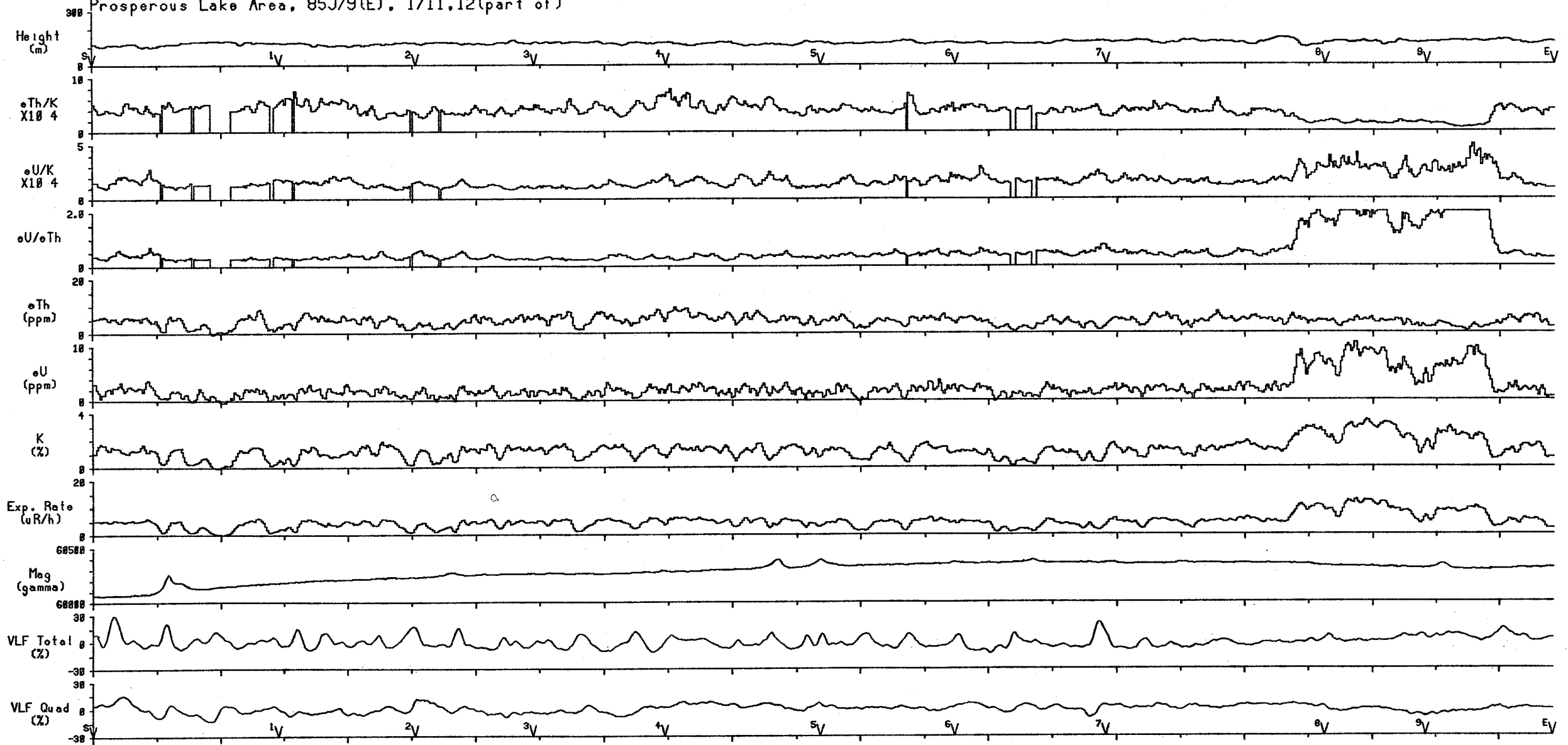


Line 60

2 km

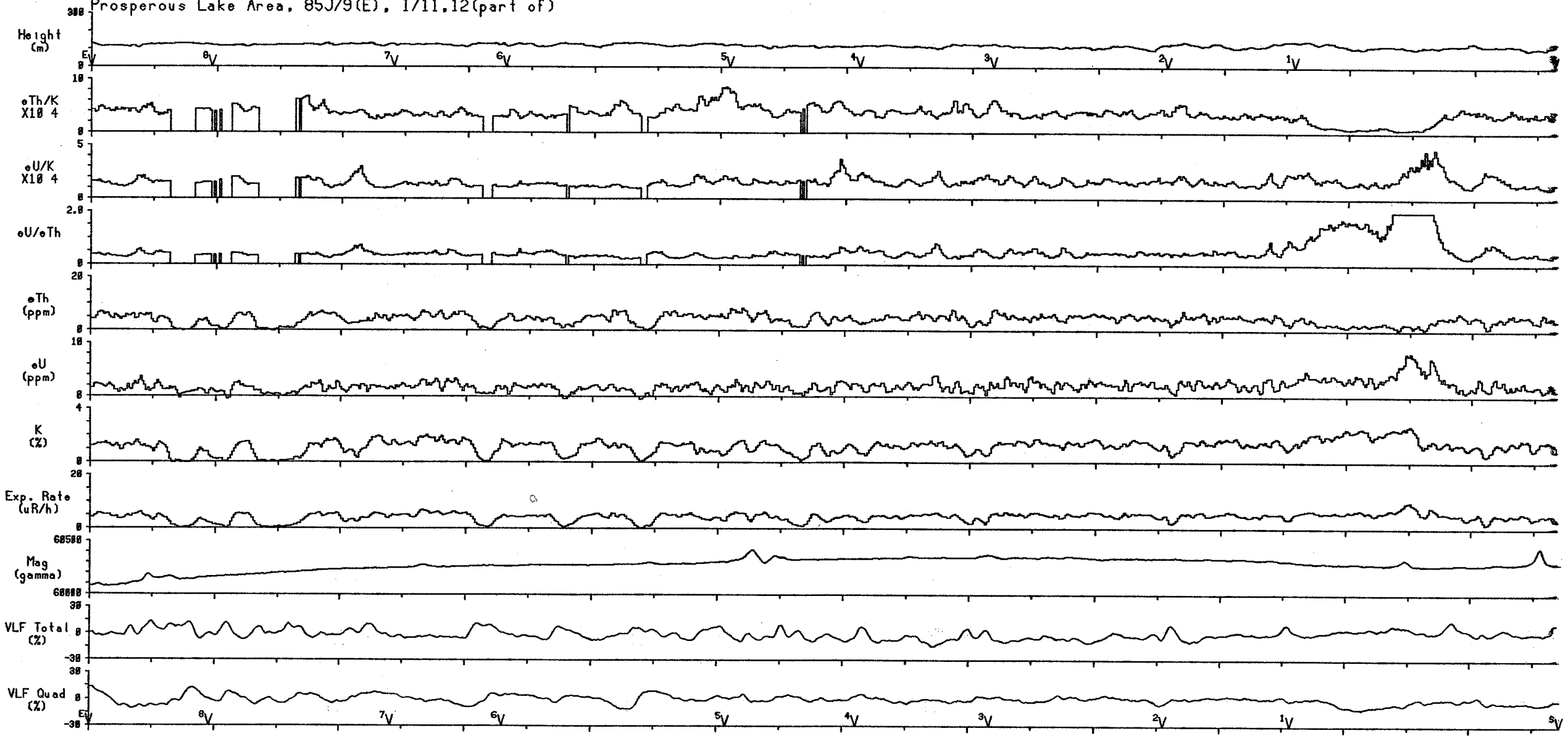
Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11,12(part of)



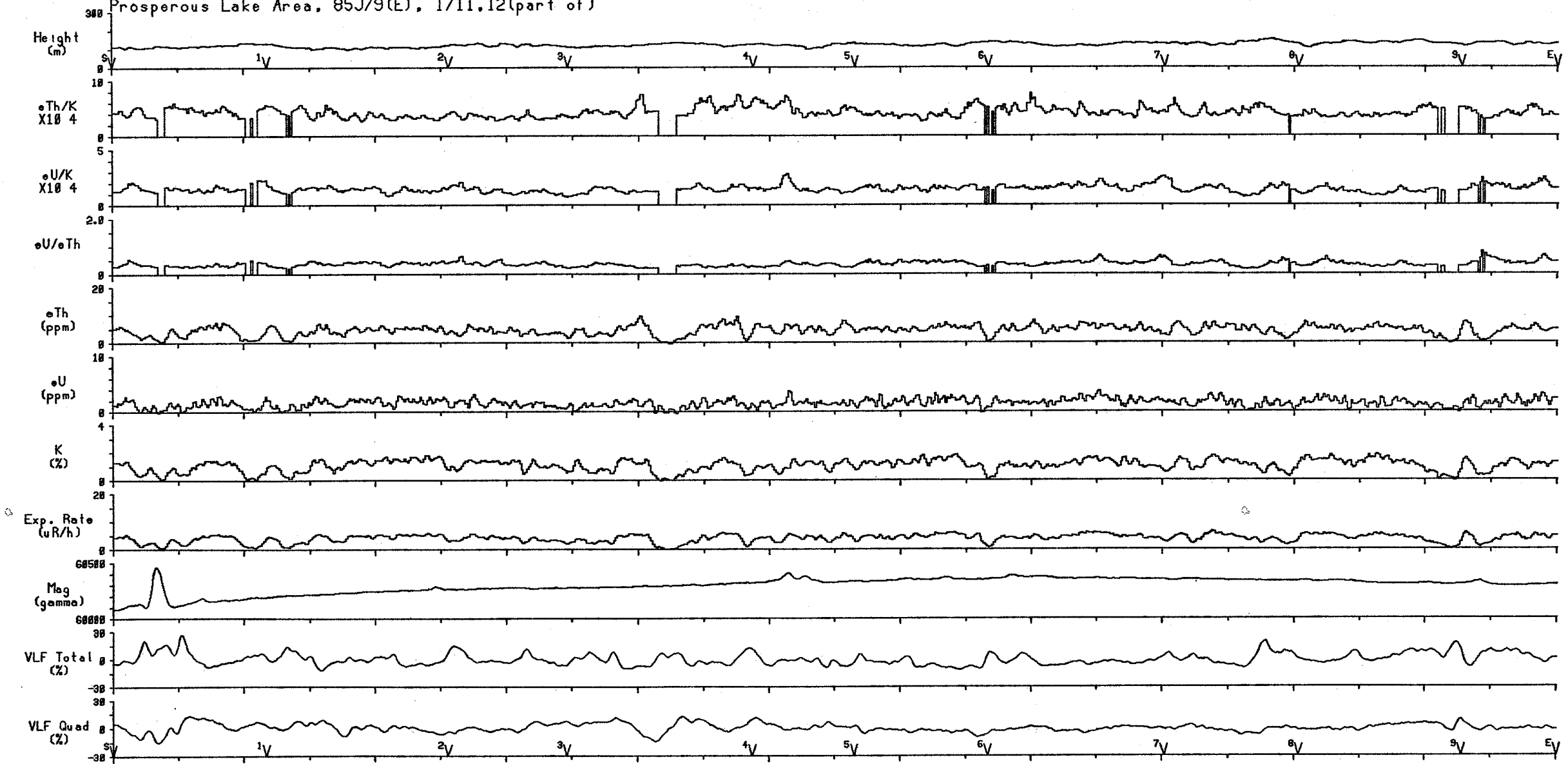
Line 61 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
 Prosperous Lake Area, 85J/9(E), I/11.12(part of)



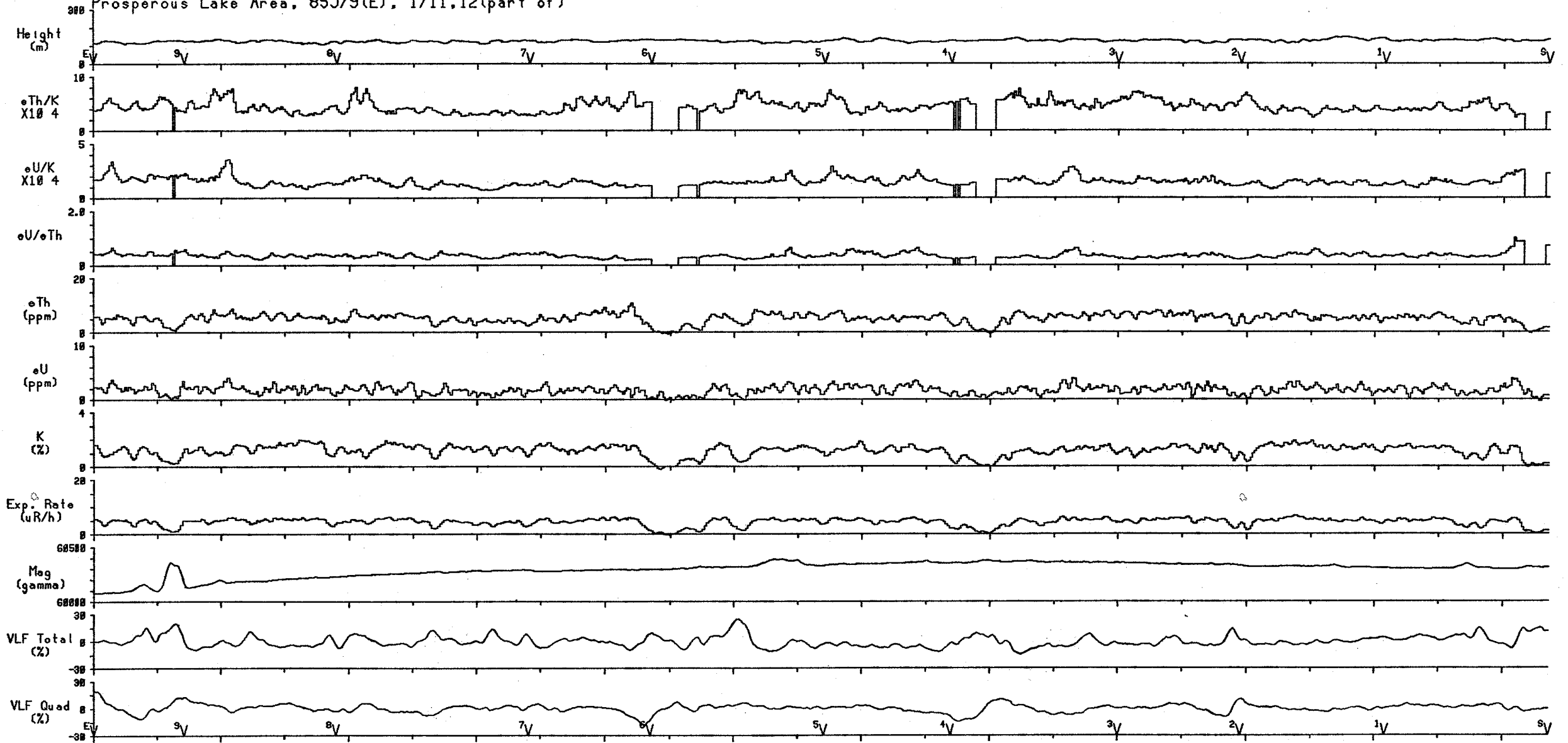
Line 62 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11.12(part of)



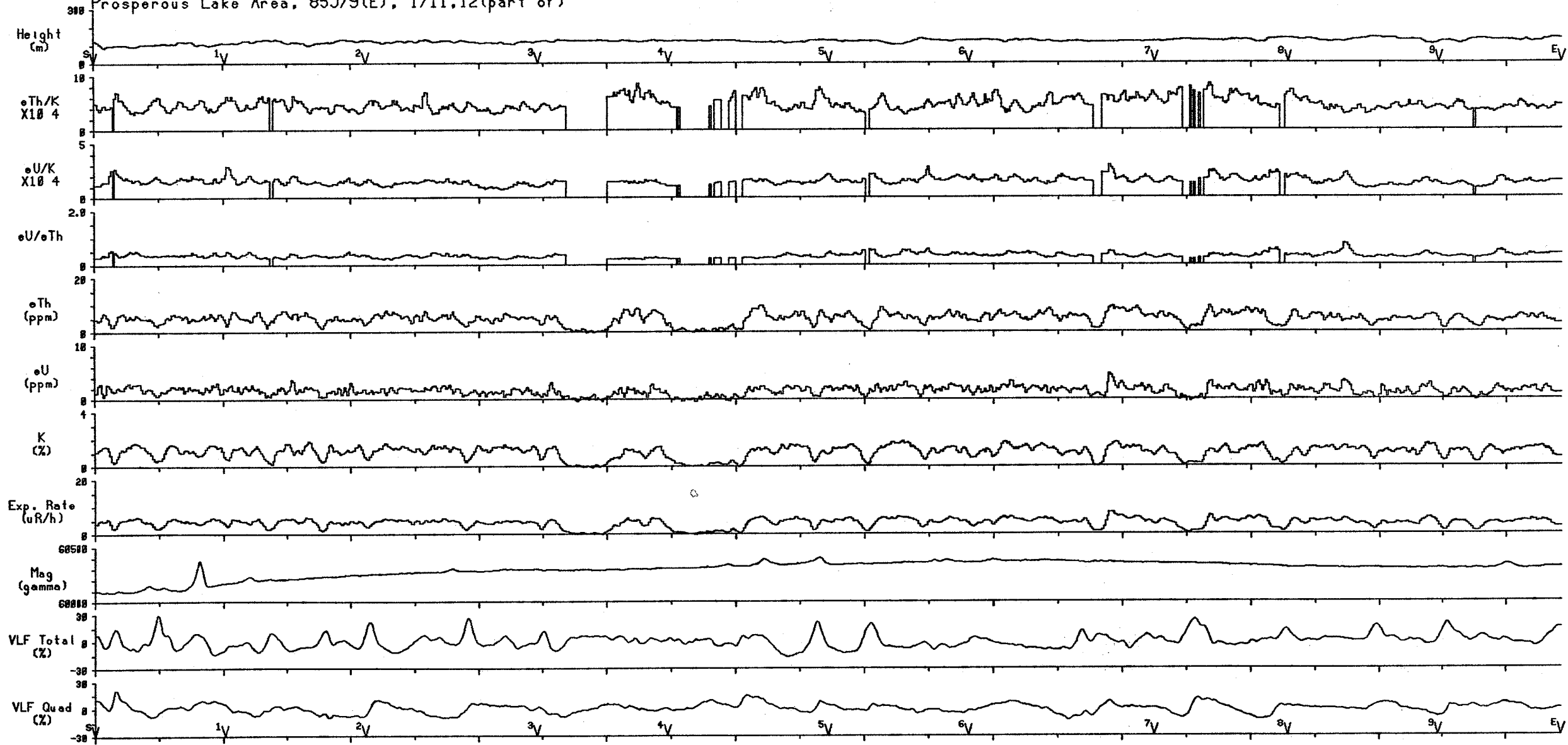
Line 63 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), I/11.12(part of)



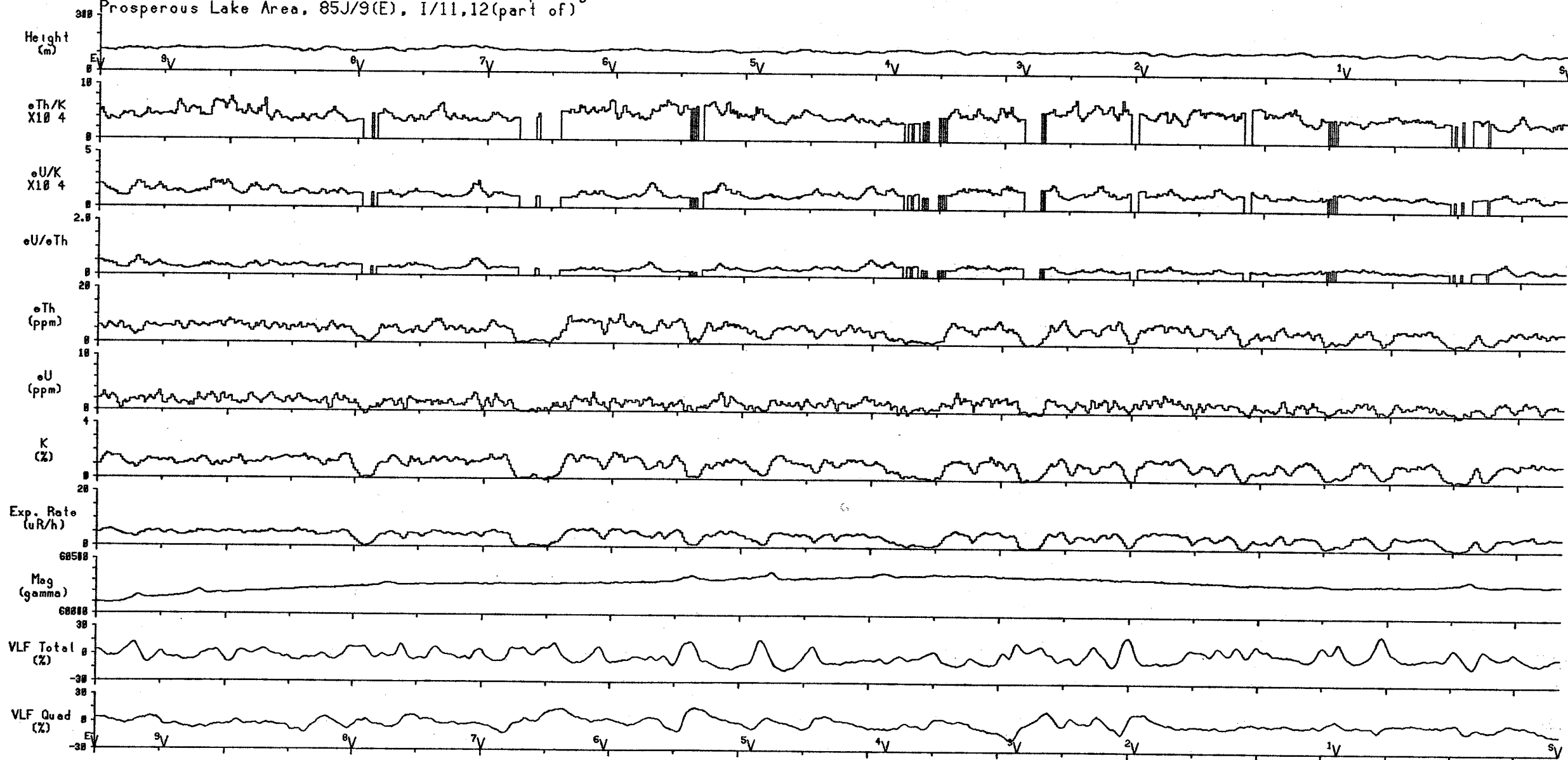
Line 64 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11.12(part of)



Line 65 | 2 km | Scale 1:150000

Prosperous Lake Area, N.W.T., 1988. (line spacing = 500 metres)
Prosperous Lake Area, 85J/9(E), 1/11,12(part of)



Line 66 | 2 km | Scale 1:150000