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GEOCHIMIE DES SOLS - REGION DU LAC TROILUS

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Énergie et Ressources
naturelles

Québec 



SÉRIE DES MANUSCRITS BRUTS

Géochimie des sols - Région du lac Troilus -

Michel B. Otis

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INTRODUCTION

Durant l'été de 1981 et de 1982, un levé géochimique de sols fut effectué parallèlement à la cartographie géologique du Lac Troilus par A. Simard et son équipe (Simard, 1981 et 1982).

Le but du levé était de définir le fond géochimique régional et s'il y a lieu de mettre en évidence des zones prioritaires pour l'exploration minérale. La région échantillonnée se situe entre les latitudes 50°49'00" et 51°00'00" et les longitudes 74°30'00" et 74°43'00" (voir la carte à la page suivante). Quarante-seize échantillons furent prélevés donnant une densité moyenne de 0,4 échantillon par kilomètre carré (voir carte de localisation des échantillons à la fin).

ANALYSES

Les échantillons furent tamisés à moins de 177 microns et ils furent analysés au Centre de recherches minérales du ministère pour les éléments suivants: Cu, Zn, Pb, Ni, Co, Mn, Ag, perte au feu, U, Fe, Al, B, Ba, Be, Ca, Cd, Ce, Cr, Eu, K, La, Li, Mg, Mo, Na, P, Sc, Sm, Sr, Th, Ti, V, Y et Hg.

La méthode d'analyse utilisée fut la spectrophotométrie d'absorption atomique pour tous les éléments sauf l'uranium qui fut dosé par chromatographie sur papier (Guimont et Pichette, 1979).

DONNÉES

Lors du prélèvement, des informations furent recueillies décrivant le site d'échantillonnage ainsi que l'échantillon. Ces données se trouvent à l'annexe 2. La liste des résultats d'analyse sont à l'annexe 1. Les unités de teneurs utilisées sont les suivantes:

ppm = parties par million
dpm = dixième de parties par million (1 dpm = 0,1 ppm)
pct = pourcent
cct = centième de pourcent

TRAITEMENT DES DONNÉES

L'histogramme, pour chacun des éléments, définit le patron de distribution des teneurs qui peut être de caractère modale ou multimodale (Annexe 3). Le tableau 1 donne les principaux paramètres statistiques de base pour chacun des éléments.

Tableau 1: Principaux paramètres statistiques de base.

| VARIABLE | MINIMUM | MAXIMUM | MOYENNE | ECART TYPE | NOMBRE D'ÉCHANTILLONS |
|----------|---------|----------|---------|------------|--------------------------|
| Ag | 2,00 | 6,00 | 2,94 | 1,04 | 96 |
| Al | 8,00 | 252,00 | 34,39 | 39,49 | 44 |
| B | 4,00 | 10,00 | 4,86 | 1,47 | 44 |
| Ba | 8,00 | 162,00 | 51,89 | 37,65 | 44 |
| Be | 2,00 | 2,00 | 2,00 | 0,00 | 44 |
| Ca | 2,00 | 201,00 | 56,23 | 55,91 | 44 |
| Cd | 2,00 | 20,00 | 6,70 | 4,21 | 44 |
| Ce | 2,00 | 58,00 | 9,23 | 9,83 | 44 |
| Co | 2,00 | 38,00 | 3,49 | 4,94 | 96 |
| Cr | 1,00 | 83,00 | 6,66 | 12,65 | 44 |
| Cu | 1,00 | 83,00 | 10,75 | 10,84 | 96 |
| Eu | 1,00 | 10,00 | 2,00 | 1,71 | 44 |
| Fe | 3,00 | 287,00 | 44,02 | 58,16 | 44 |
| Hg | 25,00 | 445,00 | 155,39 | 88,29 | 51 |
| K | 2,00 | 49,00 | 5,23 | 6,98 | 44 |
| La | 3,00 | 28,00 | 6,02 | 5,65 | 44 |
| Li | 1,00 | 48,00 | 2,15 | 5,02 | 96 |
| Mg | 100,00 | 11300,00 | 1036,36 | 1876,92 | 44 |
| Mn | 9,00 | 1830,00 | 82,53 | 222,79 | 96 |
| Mo | 1,00 | 58,00 | 4,78 | 8,83 | 95 |
| Na | 1,00 | 12,00 | 2,32 | 1,70 | 44 |
| Ni | 1,00 | 63,00 | 5,24 | 6,75 | 96 |
| P | 44,00 | 1052,00 | 509,64 | 230,31 | 44 |
| Pb | 2,00 | 58,00 | 13,18 | 10,54 | 96 |
| PF | 2,00 | 98,00 | 64,10 | 34,99 | 96 |
| Sc | 1,00 | 7,00 | 1,25 | 1,01 | 44 |
| Sm | 1,00 | 5,00 | 1,41 | 0,76 | 44 |
| Sr | 2,00 | 85,00 | 26,05 | 18,95 | 44 |
| Th | 2,00 | 12,00 | 2,66 | 1,60 | 44 |
| Ti | 1,00 | 13,00 | 1,89 | 2,31 | 44 |
| U | 1,00 | 42,00 | 5,46 | 9,10 | 52 |
| V | 2,00 | 56,00 | 7,77 | 11,36 | 44 |
| Y | 1,00 | 10,00 | 1,80 | 1,72 | 44 |
| Zn | 4,00 | 104,00 | 24,17 | 15,67 | 96 |

Les classes de teneurs utilisées pour la représentation des données sur les cartes géochimiques ont été obtenues en définissant les teneurs de certains niveaux fixes de percentiles (tableau 2). Les cartes géochimiques (annexe 3) présentent les données pour chacun des éléments en mettant de l'emphase sur l'intensité des teneurs.

Tableau 2: Classes et symboles pour la représentation des données.

| CLASSES | INTERVALLES DE POURCENTAGES | SYMBOLES |
|---------|-----------------------------|----------|
| 1 | 0 - 66 | . |
| 2 | 67 - 84 | + |
| 3 | 85 - 92 | ⊕ |
| 4 | 93 - 97 | ● |
| 5 | * 98 et + | ①,②,③ |

La 5e classe peut être redivisée en plusieurs sous-classes

| | | | |
|-----|------------|---------------------------------------|---|
| ① 1 | X à 2X | où X = teneur supérieure de la classe | 4 |
| ② 2 | 2X à 4X | jusqu'à ce que la teneur maximum soit | |
| ③ 3 | 4X à 8X... | atteinte | |

REFERENCES

- Guimont, J. -Pichette, M., 1979 - Méthode de dosage d'éléments en trace dans les sédiments, les roches et les eaux.
Ministère des Richesses naturelles du Québec: AC 5
- Simard, A., 1981 - Carte préliminaire de la demi-nord du canton 1323, dans la partie est de la bande volcano-sédimentaire Frotet-Evans (territoires de l'Abitibi et de Mistassini).
Ministère de l'Energie et des Ressources du Québec;
DP-843.
- Simard, A., 1982 - Demi-sud du canton 1423, Région de Frotet-Evans.
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DP 82-02.

ANNEXE 1

Données analytiques et
localisation des échantillons
en coordonnées UTM

| NUMERO BADGEO | ALAIN SIMARD | | | | | | | | | | | | | | | | CANTON TROILUS | | (SO) | |
|------------------|--------------|------|------|------|------|------|------|------|------|------|-----|------|------|-----------|---------------|---------------|----------------|---------|----------|-----|
| | ELEMENTS | | * 7N | * PB | * MN | * NI | * AG | * CO | * PF | * AL | * R | * BA | * BE | * CA | * COORDONNEES | * COORDONNEES | * ZONE | | | |
| | * CU | * 7N | | | | | | | | | | | | | | | | UTM EST | UTM NORD | UTM |
| PERMANENT | PPM | PPM | PPM | PPM | PPM | DPM | PPM | PCT | CCT | PPM | PPM | PPM | CCT | UTM EST | UTM NORD | UTM | | | | |
| 87-57850 | 11 | 22 | | | 42 | | | | | | | | | 534025.0 | 5639175.0 | 18 | | | | |
| 87-57851 | 14 | 22 | | | 30 | | | | | | | | | 5324250.0 | 5633025.0 | 18 | | | | |
| 87-57852 | 13 | 22 | | | 30 | | | | | | | | | 5330225.0 | 5633875.0 | 18 | | | | |
| 87-57853 | 11 | 22 | | | 18 | | | | | | | | | 5336800.0 | 5643250.0 | 18 | | | | |
| 87-57860 | 20 | 16 | | | 12 | | | | | | | | | 5327700.0 | 5644450.0 | 18 | | | | |
| 87-57861 | 30 | 16 | | | 12 | | | | | | | | | 5324475.0 | 5644450.0 | 18 | | | | |
| 87-57862 | 6 | 14 | | | 12 | | | | | | | | | 5328675.0 | 5644625.0 | 18 | | | | |
| 87-57863 | 5 | 14 | | | 12 | | | | | | | | | 5328675.0 | 5644725.0 | 18 | | | | |
| 87-57864 | 9 | 23 | | | 32 | | | | | | | | | 5327425.0 | 5646000.0 | 18 | | | | |
| 87-57865 | 6 | 14 | | | 12 | | | | | | | | | 5325900.0 | 5647350.0 | 18 | | | | |

| NUMERO BADGEO | ALAIN SIMARD | | | | | | | | | | | | | | | | LAC TROILUS | | (SO) | |
|------------------|--------------|------|------|------|------|-----|------|------|------|------|-----|------|------|---------------|---------------|--------|-------------|-----|------|-----|
| | ELEMENTS | | * CR | * EU | * FE | * K | * LA | * LI | * MG | * NA | * P | * SC | * SK | * COORDONNEES | * COORDONNEES | * ZONE | | | | |
| | * CD | * CF | | | | | | | | | | | | | | | DPM | PPM | CCT | PPM |
| 81-54702 | 15 | 4 | | | 12 | | | | | | | | | 524090.0 | 5631100.0 | 18 | | | | |
| 81-54703 | 11 | 5 | | | 11 | | | | | | | | | 5222740.0 | 5622950.0 | 18 | | | | |
| 81-54704 | 15 | 5 | | | 15 | | | | | | | | | 5221000.0 | 5632725.0 | 18 | | | | |
| 81-54705 | 10 | 5 | | | 20 | | | | | | | | | 5227050.0 | 5634775.0 | 18 | | | | |
| 81-54708 | 12 | 7 | | | 105 | | | | | | | | | 5225650.0 | 5634625.0 | 18 | | | | |
| 81-54752 | 10 | 9 | | | 64 | | | | | | | | | 5229600.0 | 5631100.0 | 18 | | | | |
| 81-54753 | 6 | 9 | | | 31 | | | | | | | | | 5229000.0 | 5631675.0 | 18 | | | | |
| 81-54755 | 5 | 9 | | | 19 | | | | | | | | | 5303600.0 | 5622965.0 | 18 | | | | |
| 81-54756 | 5 | 9 | | | 13 | | | | | | | | | 5229040.0 | 5622990.0 | 18 | | | | |
| 81-54757 | 23 | 9 | | | 26 | | | | | | | | | 5229100.0 | 5633150.0 | 18 | | | | |
| 81-54761 | 12 | 9 | | | 6 | | | | | | | | | 5335150.0 | 5634725.0 | 18 | | | | |
| 81-54762 | 9 | 9 | | | 33 | | | | | | | | | 5336850.0 | 5636325.0 | 18 | | | | |
| 81-54763 | 10 | 11 | | | 33 | | | | | | | | | 5336950.0 | 5634555.0 | 18 | | | | |
| 81-54764 | 22 | 17 | | | 53 | | | | | | | | | 5335100.0 | 5622900.0 | 18 | | | | |
| 81-54765 | 2 | 7 | | | 19 | | | | | | | | | 5334475.0 | 5622985.0 | 18 | | | | |
| 81-54766 | 10 | 4 | | | 16 | | | | | | | | | 5335200.0 | 5622965.0 | 18 | | | | |
| 81-54767 | 22 | 4 | | | 26 | | | | | | | | | 5333000.0 | 5630000.0 | 18 | | | | |
| 81-54768 | 2 | 8 | | | 16 | | | | | | | | | 5336775.0 | 5633025.0 | 18 | | | | |
| 81-54769 | 2 | 24 | | | 77 | | | | | | | | | 5336725.0 | 5631450.0 | 18 | | | | |
| 81-54770 | 2 | 4 | | | 23 | | | | | | | | | 5336700.0 | 5631100.0 | 18 | | | | |
| 81-54771 | 11 | 7 | | | 18 | | | | | | | | | 5336725.0 | 5631100.0 | 18 | | | | |
| 81-54804 | 4 | 3 | | | 8 | | | | | | | | | 5332225.0 | 5633645.0 | 18 | | | | |
| 81-54805 | 7 | 3 | | | 8 | | | | | | | | | 5333970.0 | 5633700.0 | 18 | | | | |
| 81-54806 | 7 | 3 | | | 12 | | | | | | | | | 5334465.0 | 5633625.0 | 18 | | | | |
| 81-54807 | 9 | 3 | | | 14 | | | | | | | | | 5333950.0 | 5633700.0 | 18 | | | | |
| 81-54808 | 16 | 3 | | | 44 | | | | | | | | | 5333475.0 | 5633782.5 | 18 | | | | |
| 81-54809 | 11 | 3 | | | 20 | | | | | | | | | 5332800.0 | 5633700.0 | 18 | | | | |
| 81-54810 | 11 | 3 | | | 20 | | | | | | | | | 5333350.0 | 5634465.0 | 18 | | | | |
| 81-54811 | 10 | 3 | | | 9 | | | | | | | | | 5333850.0 | 5634875.0 | 18 | | | | |
| 81-54812 | 5 | 3 | | | 6 | | | | | | | | | 5327175.0 | 5636175.0 | 18 | | | | |
| 81-54813 | 8 | 3 | | | 8 | | | | | | | | | 5332025.0 | 5636275.0 | 18 | | | | |
| 81-54822 | 10 | 6 | | | 15 | | | | | | | | | 5330375.0 | 5634750.0 | 18 | | | | |
| 81-54852 | 4 | 5 | | | 10 | | | | | | | | | 5221650.0 | 5633700.0 | 18 | | | | |
| 81-54853 | 20 | 5 | | | 12 | | | | | | | | | 5224225.0 | 5636300.0 | 18 | | | | |
| 81-54863 | 3 | 0 | | | 5 | | | | | | | | | 5222275.0 | 5634800.0 | 18 | | | | |
| 81-54866 | 4 | 1 | | | 13 | | | | | | | | | 5222700.0 | 5632650.0 | 18 | | | | |
| 81-54869 | 5 | 4 | | | 17 | | | | | | | | | 5227750.0 | 5633025.0 | 18 | | | | |
| 81-54870 | 5 | 1 | | | 15 | | | | | | | | | 5224075.0 | 5622985.0 | 18 | | | | |
| 81-54871 | 3 | 1 | | | 8 | | | | | | | | | 5225325.0 | 5630200.0 | 18 | | | | |
| 81-54872 | 6 | 2 | | | 10 | | | | | | | | | 5229225.0 | 5634550.0 | 18 | | | | |
| 81-54873 | 4 | 10 | | | 34 | | | | | | | | | 5225675.0 | 5631675.0 | 18 | | | | |
| 81-54874 | 10 | 4 | | | 3 | | | | | | | | | 5227200.0 | 5622965.0 | 18 | | | | |
| 82-57802 | | | | | | | | | | | | | | 5332150.0 | 5639300.0 | 18 | | | | |
| 82-57803 | | | | | | | | | | | | | | 5334750.0 | 5642450.0 | 18 | | | | |
| 82-57804 | | | | | | | | | | | | | | 5336975.0 | 5645925.0 | 18 | | | | |
| 82-57805 | | | | | | | | | | | | | | 5336800.0 | 5647200.0 | 18 | | | | |
| 82-57806 | | | | | | | | | | | | | | 5335225.0 | 5644225.0 | 18 | | | | |
| 82-57807 | | | | | | | | | | | | | | 5335500.0 | 5641050.0 | 18 | | | | |
| 82-57808 | | | | | | | | | | | | | | 5337225.0 | 5644425.0 | 18 | | | | |
| 82-57809 | | | | | | | | | | | | | | 5336000.0 | 5642875.0 | 18 | | | | |
| 82-57810 | | | | | | | | | | | | | | 5335225.0 | 5639125.0 | 18 | | | | |
| 82-57811 | | | | | | | | | | | | | | 5336850.0 | 5639325.0 | 18 | | | | |
| 82-57812 | | | | | | | | | | | | | | 5335400.0 | 5638225.0 | 18 | | | | |
| 82-57813 | | | | | | | | | | | | | | 5337225.0 | 5645800.0 | 18 | | | | |
| 82-57814 | | | | | | | | | | | | | | 5336600.0 | 5639500.0 | 18 | | | | |
| 82-57815 | | | | | | | | | | | | | | 5336825.0 | 5641075.0 | 18 | | | | |
| 82-57816 | | | | | | | | | | | | | | 5336800.0 | 5642650.0 | 18 | | | | |
| 82-57817 | | | | | | | | | | | | | | 5336025.0 | 5640925.0 | 18 | | | | |
| 82-57818 | | | | | | | | | | | | | | 5336050.0 | 5644225.0 | 18 | | | | |
| 82-57819 | | | | | | | | | | | | | | 5226050.0 | 5644725.0 | 18 | | | | |

| NUMERO BADGE | ELEMENTS SR | MPN ALAIN SIPARD CANTON TROILUS (SO) | | | | | | | | | COORDONNEES | | ZONE |
|-----------------|----------------|--------------------------------------|-------------|------------|------------|-------------|-------------|-------------|-----------|----------|-------------|-----------|------|
| | | * TH PPM | * TI CCT | * V PPM | * Y PPM | * MO PPM | * II DPM | * HG PPB | UTM EST | UTM NORD | UTP | | |
| | | | | | | | | | PERMANENT | PPM | PPM | PPM | PPM |
| 82-57802 | | | | | | 1 | 2 | 180 | | | 532150.0 | 5639300.0 | 18 |
| 82-57803 | | | | | | 1 | 2 | 200 | | | 531175.0 | 5642250.0 | 18 |
| 82-57804 | | | | | | 1 | 2 | 200 | | | 536875.0 | 5645000.0 | 18 |
| 82-57805 | | | | | | 1 | 2 | 255 | | | 536800.0 | 5647200.0 | 18 |
| 82-57806 | | | | | | 2 | 2 | 200 | | | 536800.0 | 5647200.0 | 18 |
| 82-57807 | | | | | | 5 | 2 | 200 | | | 536800.0 | 5641050.0 | 18 |
| 82-57808 | | | | | | 1 | 2 | 45 | | | 533775.0 | 5644725.0 | 18 |
| 82-57809 | | | | | | 1 | 2 | 165 | | | 533600.0 | 5642875.0 | 18 |
| 82-57810 | | | | | | 1 | 2 | 235 | | | 533555.0 | 5639325.0 | 18 |
| 82-57811 | | | | | | 3 | 2 | 260 | | | 536800.0 | 5639725.0 | 18 |
| 82-57812 | | | | | | 2 | 2 | 170 | | | 535400.0 | 5638225.0 | 18 |
| 82-57813 | | | | | | 1 | 2 | 195 | | | 533725.0 | 5645800.0 | 18 |
| 82-57814 | | | | | | 1 | 2 | 70 | | | 525600.0 | 5639500.0 | 18 |
| 82-57815 | | | | | | 2 | 2 | 270 | | | 536825.0 | 5641075.0 | 18 |
| 82-57816 | | | | | | 1 | 2 | 35 | | | 536800.0 | 5642650.0 | 18 |
| 82-57817 | | | | | | 2 | 2 | 245 | | | 535335.0 | 5640925.0 | 18 |
| 82-57818 | | | | | | 1 | 2 | 30 | | | 529050.0 | 5644225.0 | 18 |
| 82-57819 | | | | | | 1 | 2 | 25 | | | 526050.0 | 5644725.0 | 18 |
| 82-57820 | | | | | | 3 | 2 | 155 | | | 526825.0 | 5641225.0 | 18 |
| 82-57821 | | | | | | 4 | 1 | 160 | | | 5322475.0 | 5641375.0 | 18 |
| 82-57823 | | | | | | 6 | 1 | 210 | | | 5322250.0 | 5643775.0 | 18 |
| 82-57825 | | | | | | 5 | 1 | 125 | | | 530400.0 | 5641450.0 | 18 |
| 82-57826 | | | | | | 7 | 1 | 150 | | | 528625.0 | 5641300.0 | 18 |
| 82-57827 | | | | | | 7 | 1 | 290 | | | 527600.0 | 5642625.0 | 18 |
| 82-57829 | | | | | | 18 | 1 | 45 | | | 528825.0 | 5642600.0 | 18 |
| 82-57830 | | | | | | 53 | 2 | 145 | | | 530625.0 | 5642600.0 | 18 |
| 82-57831 | | | | | | 12 | 1 | 80 | | | 535175.0 | 5646050.0 | 18 |
| 82-57832 | | | | | | 13 | 1 | | | | 535200.0 | 5647525.0 | 18 |
| 82-57833 | | | | | | 2 | 1 | | | | 531700.0 | 5644425.0 | 18 |
| 82-57834 | | | | | | 3 | 1 | 60 | | | 531925.0 | 5644375.0 | 18 |
| 82-57835 | | | | | | 5 | 1 | 160 | | | 529725.0 | 5646500.0 | 18 |
| 82-57836 | | | | | | 3 | 34 | 70 | | | 529575.0 | 5647300.0 | 18 |
| 82-57837 | | | | | | 22 | 1 | 180 | | | 533000.0 | 5646525.0 | 18 |
| 82-57838 | | | | | | 4 | 1 | 60 | | | 532075.0 | 5647750.0 | 18 |
| 82-57840 | | | | | | 6 | 1 | 140 | | | 532200.0 | 5648875.0 | 18 |
| 82-57841 | | | | | | 14 | 2 | 150 | | | 531700.0 | 5646625.0 | 18 |
| 82-57842 | | | | | | 14 | 1 | 115 | | | 530500.0 | 5647700.0 | 18 |
| 82-57843 | | | | | | 2 | 2 | 230 | | | 527225.0 | 5639400.0 | 18 |
| 82-57844 | | | | | | 16 | 1 | 130 | | | 535475.0 | 5643000.0 | 18 |
| 82-57845 | | | | | | 2 | 1 | 210 | | | 528775.0 | 5639400.0 | 18 |
| 82-57846 | | | | | | 7 | 1 | 155 | | | 528475.0 | 5641000.0 | 18 |
| 82-57847 | | | | | | 1 | 1 | 150 | | | 532400.0 | 5640600.0 | 18 |
| 82-57848 | | | | | | 1 | 1 | 120 | | | 533400.0 | 5639175.0 | 18 |
| 82-57849 | | | | | | 1 | 1 | 110 | | | 533250.0 | 5638875.0 | 18 |
| 82-57850 | | | | | | 1 | 1 | 150 | | | 5337800.0 | 5642325.0 | 18 |
| 82-57851 | | | | | | 1 | 1 | 260 | | | 5336800.0 | 5644350.0 | 18 |
| 82-57852 | | | | | | 2 | 1 | 40 | | | 524700.0 | 5644475.0 | 18 |
| 82-57853 | | | | | | 1 | 1 | 215 | | | 528900.0 | 5646225.0 | 18 |
| 82-57854 | | | | | | 1 | 1 | 55 | | | 528475.0 | 5647225.0 | 18 |
| 82-57864 | | | | | | 4 | 3 | 445 | | | 527425.0 | 5646000.0 | 18 |
| 82-57865 | | | | | | 2 | 1 | 35 | | | 525900.0 | 5647350.0 | 18 |

ANNEXE 2

Renseignements de terrain

B A D G E O
ORGANISME MRN TYPE SO

GEOCHIMIE-SOLS
DEFINITIONS DES DONNEES DE TERRAIN

| | | | |
|--|---|---|--------------------------------------|
| PROF PROFONDEUR (0) PAS D'INFORMATION (1) 1 DECIMETRE (12) 12 DECIMETRES | NATU NATURE DU RECOUVREMENT RECO (0) PAS D'INFORMATION (1) ORGANIQUE (2) ARGILEUX (3) SILTEUX (4) SABLONNEUX (5) GRAVIER ET BLOCS (6) MELANGE DE TOUT | AGE AGE GEOLOGIQUE GEOLOG CODE DU G.S.C. | AGE AGE GEOLOGIQUE CODE DU G.S.C. |
| ZONE ZONE DE PRELEVEMENT PREL (0) PAS D'INFORMATION (1) HORIZON O (ORGANIQUE 30 POURCENT) (2) HORIZON AO (ORGANIQUE-MINERAL) A ACCUMULATION MAXIMALE DE MATIERE ORGANIQUE (MATIERE ORGANIQUE < 30 POURCENT) (3) HORIZON A (MINERAL LESSIVE) (4) HORIZON AB (INDICE D'ENRICHISSEMENT) (5) HORIZON B (ENRICHISSEMENT MAXIMUM) (6) HORIZON BC (TRANSITION) (7) HORIZON C (NON TOUCHE PAR LES PHENOMENES PEDOLOGIQUES) | COUL COULEUR DE L'ECHANTILLON ECH (0) PAS D'INFORMATION (1) BLANCHATRE (2) BEIGE (3) JAUNE (4) ORANGE (5) ROSE OU ROUGE (6) BRUN (7) BRUN FONCE (8) NOIR (9) GRIS | PH PH OC.C A 14.0 | PH PH OC.C A 14.0 |
| HORIZ HORIZON PEDOLOGIQUE PEDLG (0) PAS D'INFORMATION (1) TRES MARQUE (2) MARQUE (3) FAIBLEMENT (4) NON DISCERNABLE | CONT CONTAMINATION (0) PAS D'INFORMATION (1) AUCUNE (2) POSSIBLE (3) PROBABLE (4) CERTAIN | JOUR JOUR D'ECHANTILLONNAGE | JOUR JOUR D'ECHANTILLONNAGE |
| DPAI DRAINAGE NAGE (0) PAS D'INFORMATION (1) TRES BIEN DRAINE (2) DRAINE (3) MAL DRAINE (4) MARECAGEUX | TYPE TYPE DE CONTAMINATION CONT (0) PAS D'INFORMATION (1) NON APPLICABLE (2) CHAMPS CULTIVES (3) INDUSTRIELLE (4) TRAVAUX DE VOIE PIE (5) DEPOTIF (6) FEUX DE FORET (7) RESUS METALLIQUES (8) TRAVAUX DE MINES | MOIS MOIS D'ECHANTILLONNAGE | MOIS MOIS D'ECHANTILLONNAGE |
| TYPE TYPE DE VEGETATION VEGF (0) PAS D'INFORMATION (1) FEUILLUS (2) MIXTE (3) CONIFERES (4) TOUNDRA (MOUSSE ET LICHEN) | MINE MINERALISATION CONNUE CON (0) PAS D'INFORMATION (1) OUI (2) NON | NO. NUMERO DE PROJET PROJ | NO. NUMERO DE PROJET PROJ |
| DENS DENSITE DE VEGETATION VEGE (0) PAS D'INFORMATION (1) TRES DENSE (2) DENSE (3) EPAISSE (4) TRES EPAISSE (5) CLAIRIERE (6) CHAMPS (7) PAS D'ARBRES | GRAN GRANULOMETRIE EN DIZAINES DE POURCENT 9=10 | | |

ANNEXE 3

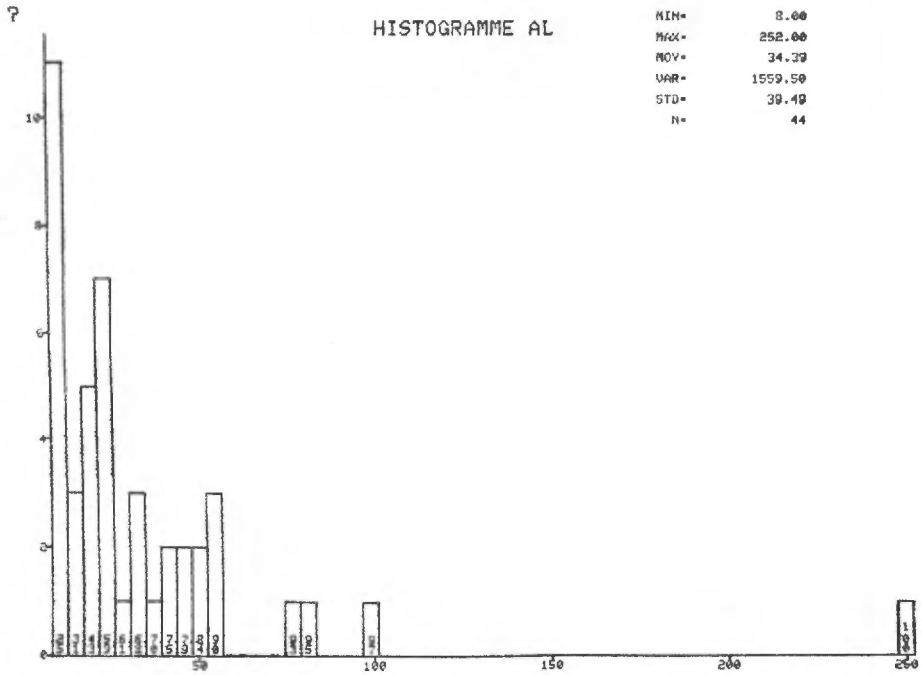
Histogrammes avec statistiques
de base et cartes géochimiques pour

Al, B, Ba, Ca, Cd, Ce, Co, Cr, Cu, Eu, Fe, Hg, K, La, Li

Mg, Mn, Mo, Na, Ni, P, Pb, PF, Sc, Sm, Sr, Th, Ti, U, V, Y, Zn

AVIS AU LECTEUR: Les cartes marquées du symbole ▲ contiennent les échantillons (série 54 000) de la partie sud de la carte de base, ceux du symbole △ contiennent les échantillons (série 57 000) de la partie nord de la carte de base (voir la carte de localisation des échantillons à la fin), tandis que les cartes représentées par le symbole ■ englobent tous les échantillons.

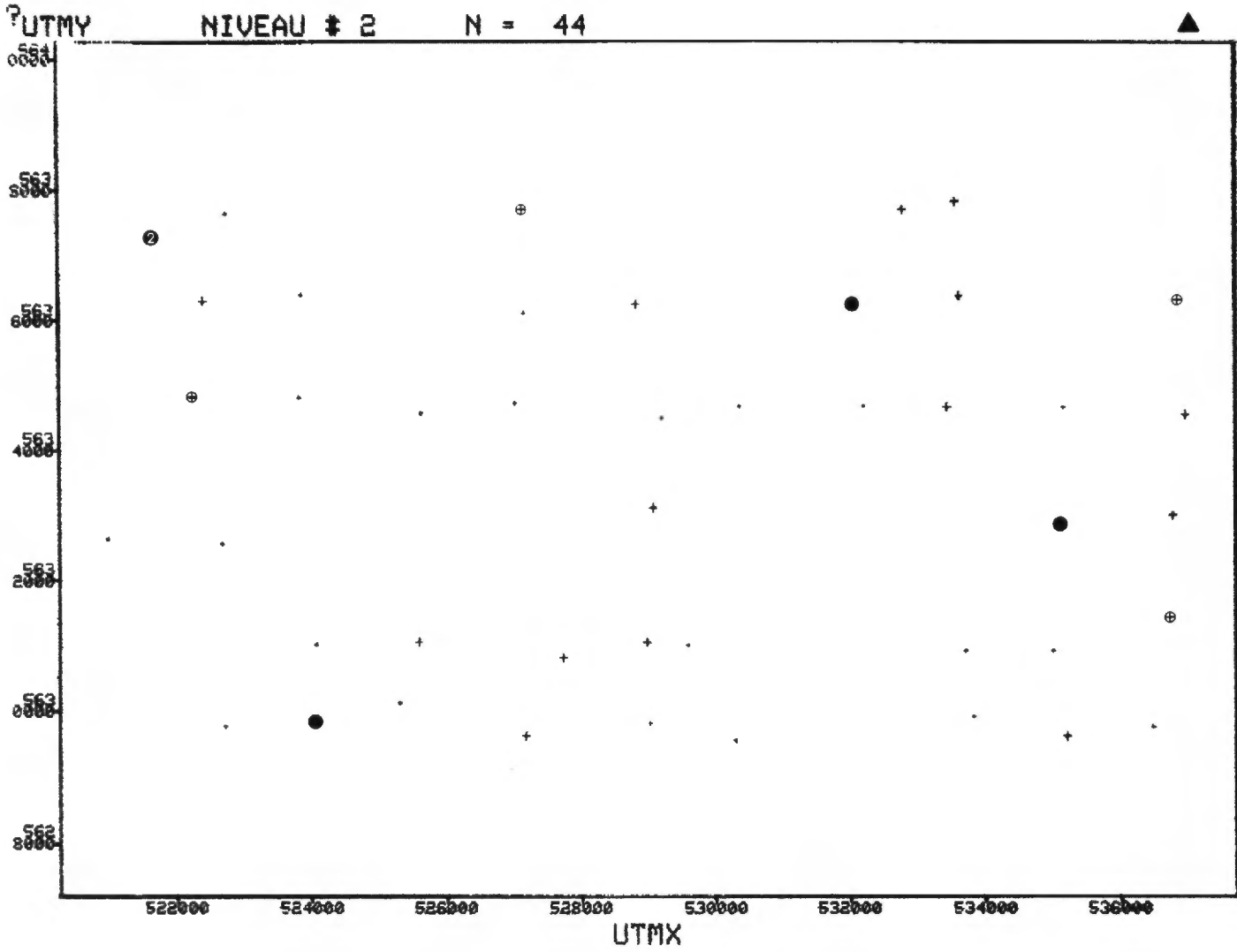
N.B. L'échelle des cartes géochimiques est approximativement de
1: 164 000, 1:100 000 et 1:90 000 pour les cartes constituées
respectivement des symboles ■ , ▲ et △ .

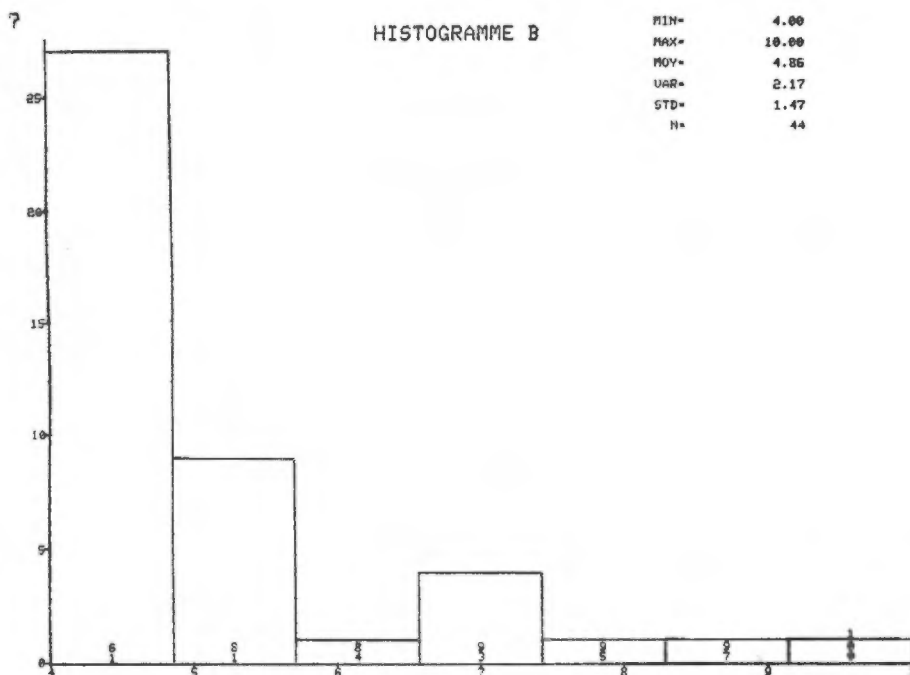


AI

TENEURS (cct)

| | |
|-----------|---|
| 0 - 24 | . |
| 25 - 50 | ⊕ |
| 51 - 75 | + |
| 76 - 100 | ● |
| 101 - 200 | ⊙ |
| 201 - 400 | ⊗ |

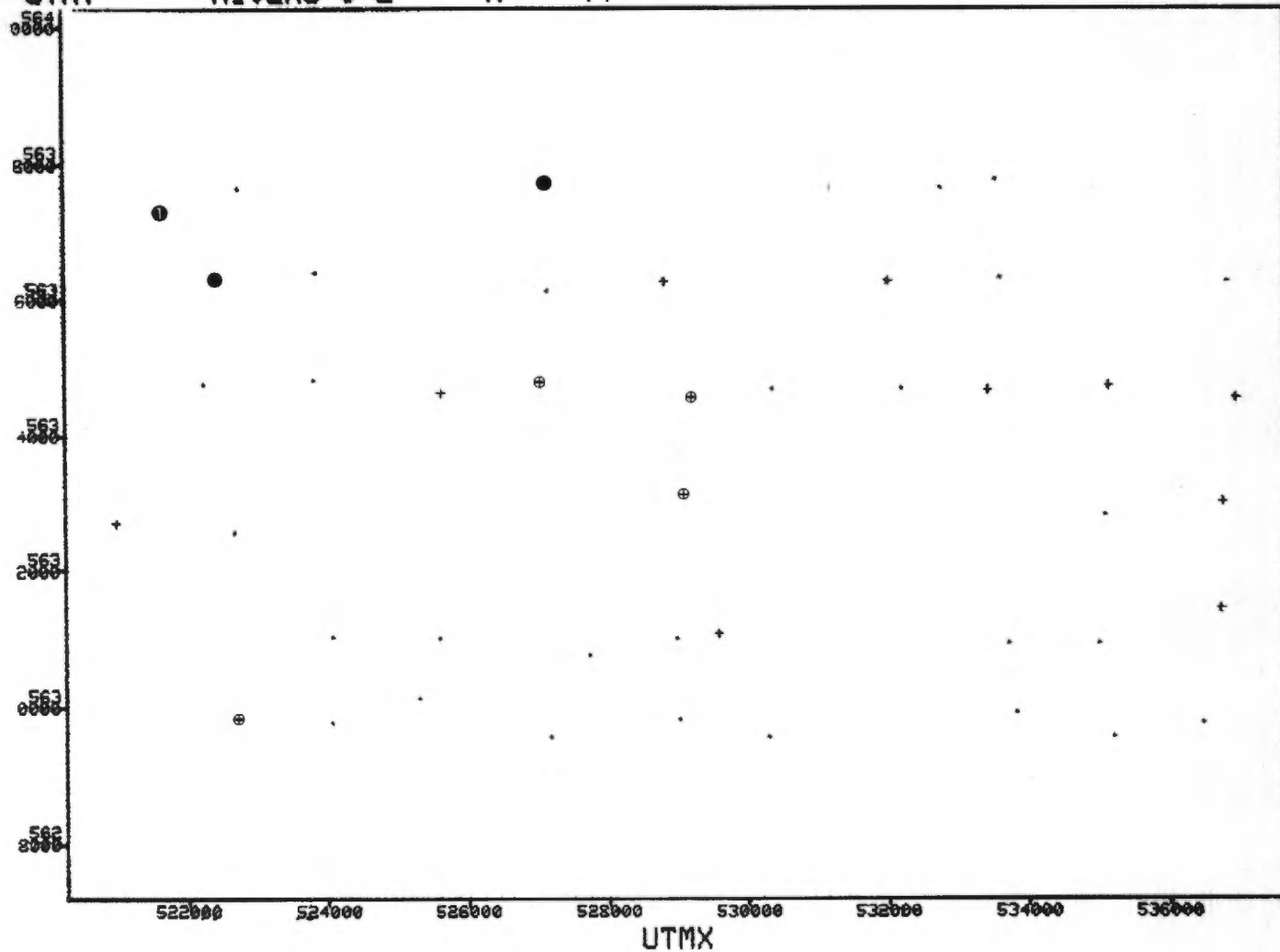


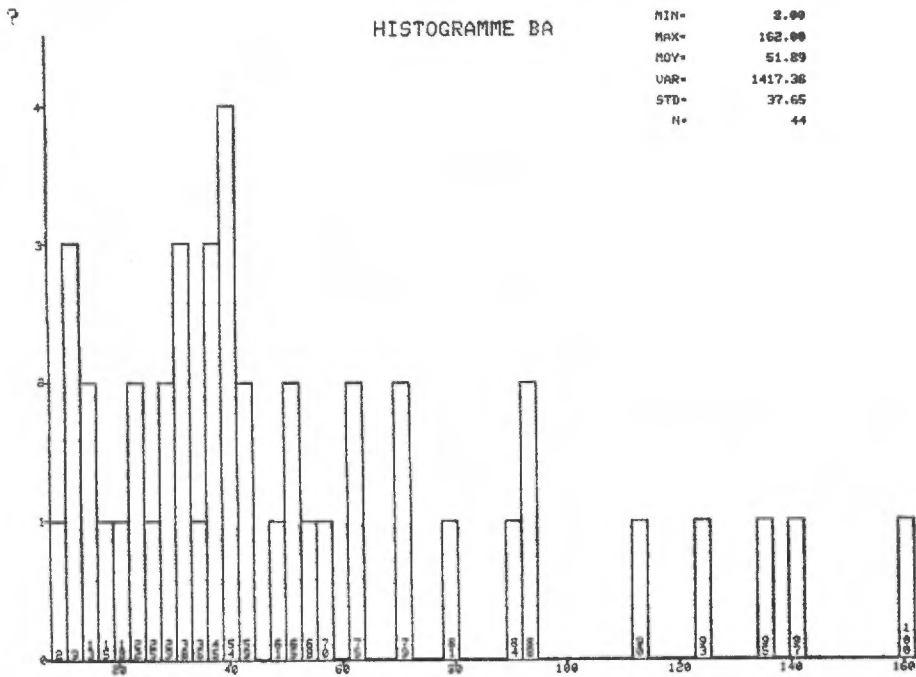


MIN- 4.00
MAX- 10.00
MOY- 4.86
VAR- 2.17
STD- 1.47
N- 44

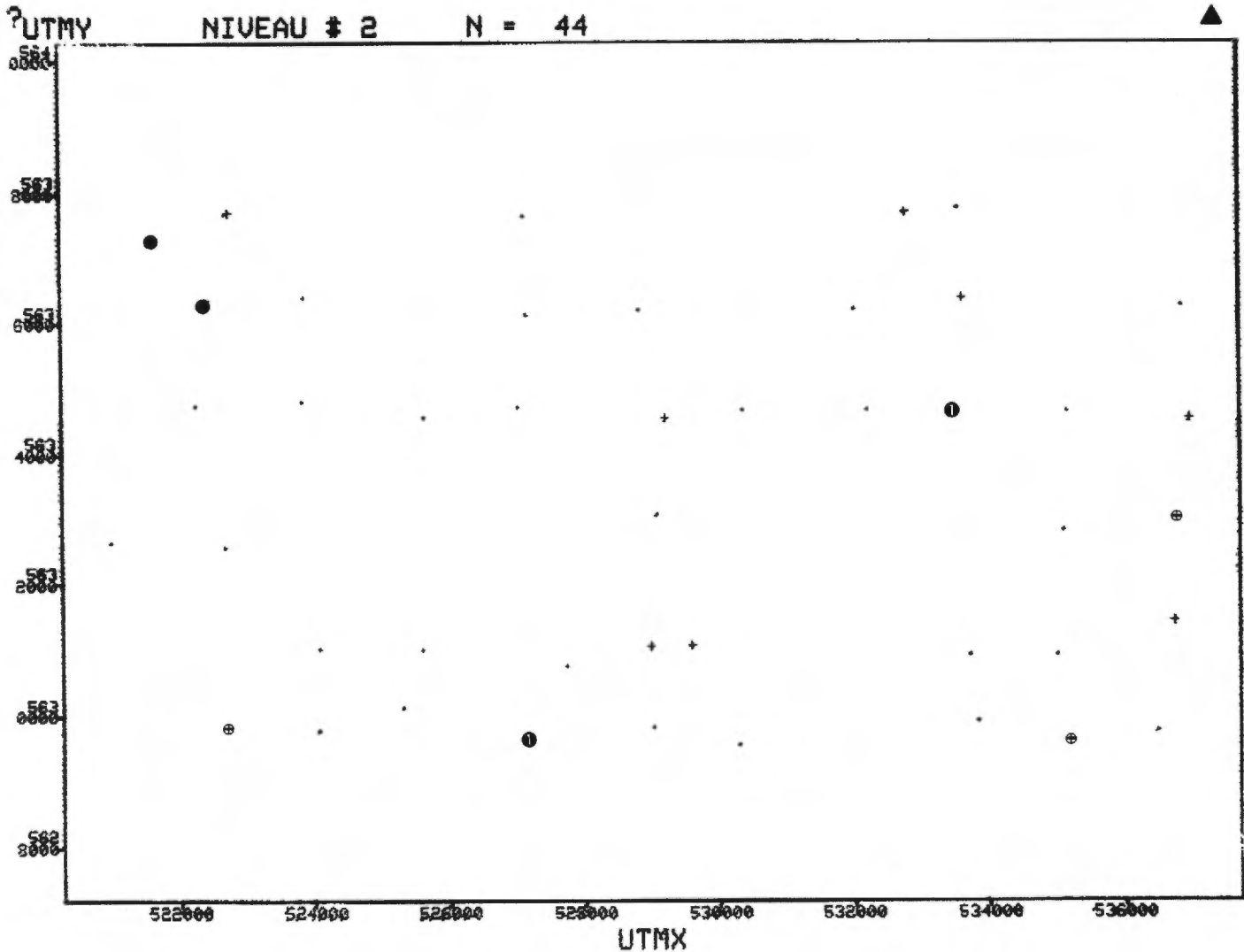
B
TENEURS (ppm)
0-4 ·
5-6 +
7-7 ⊕
8-9 ●
10-18 ⊙

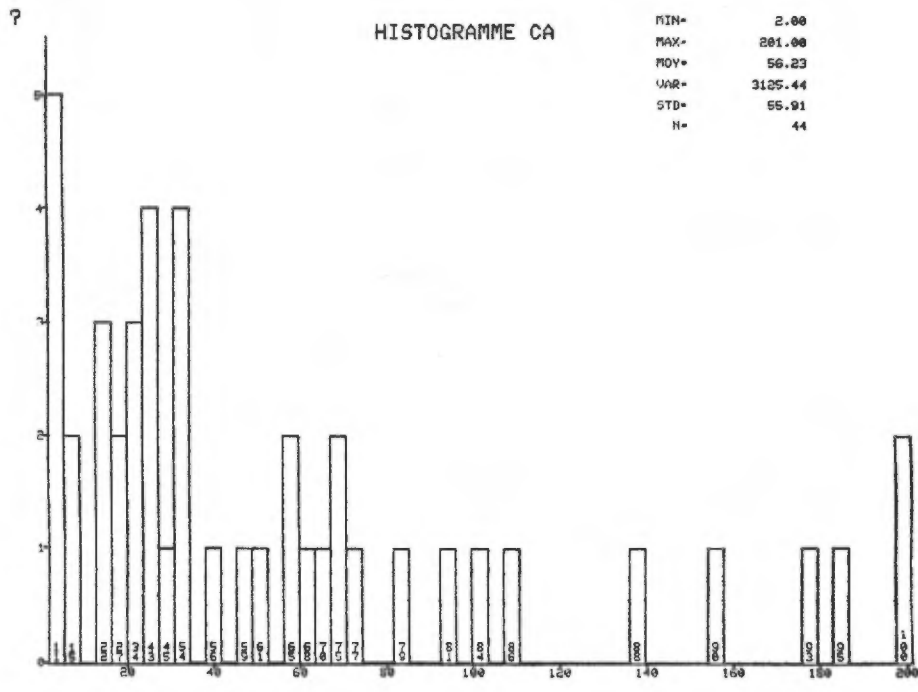
?UTMY NIVEAU # 2 N = 44 ▲



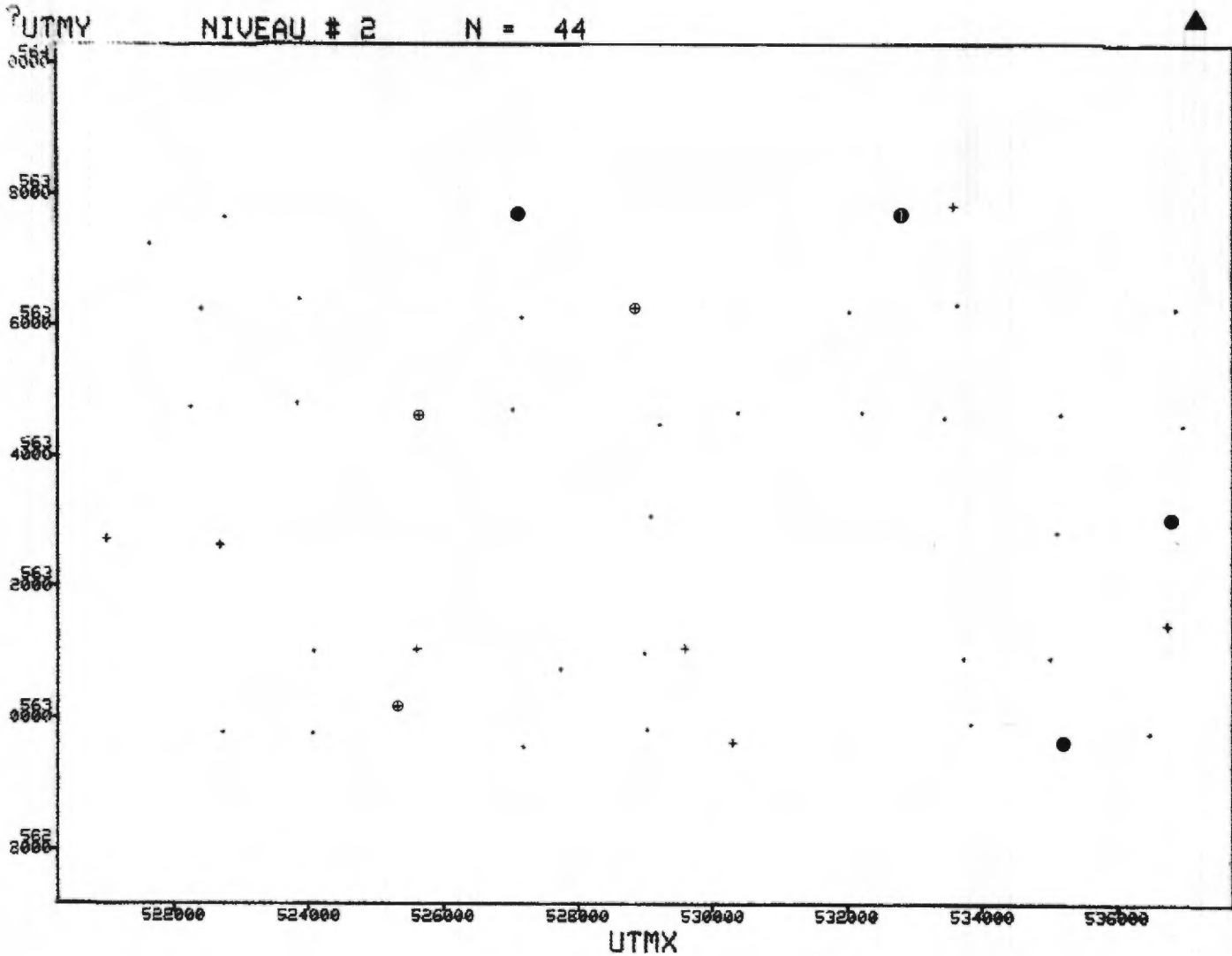


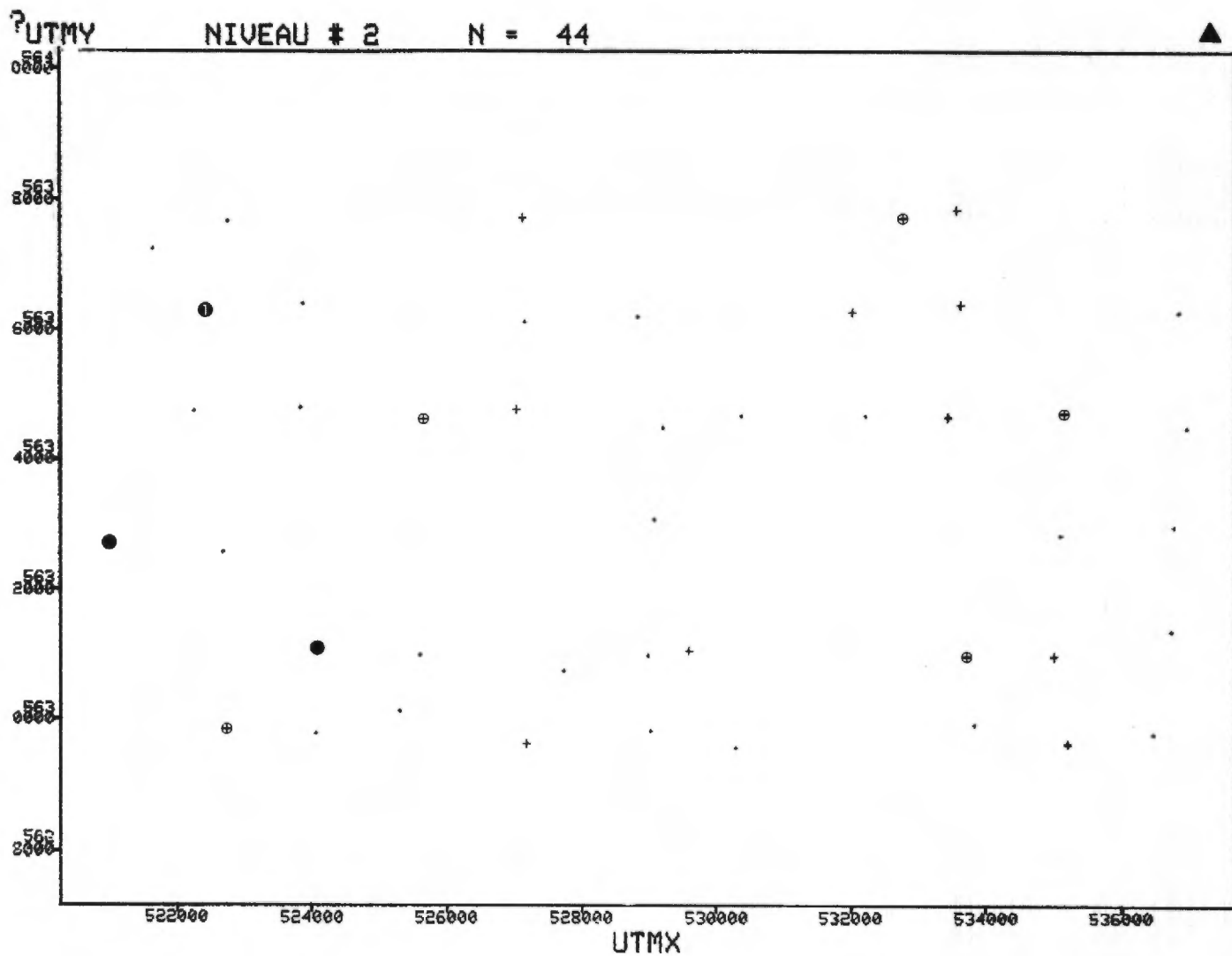
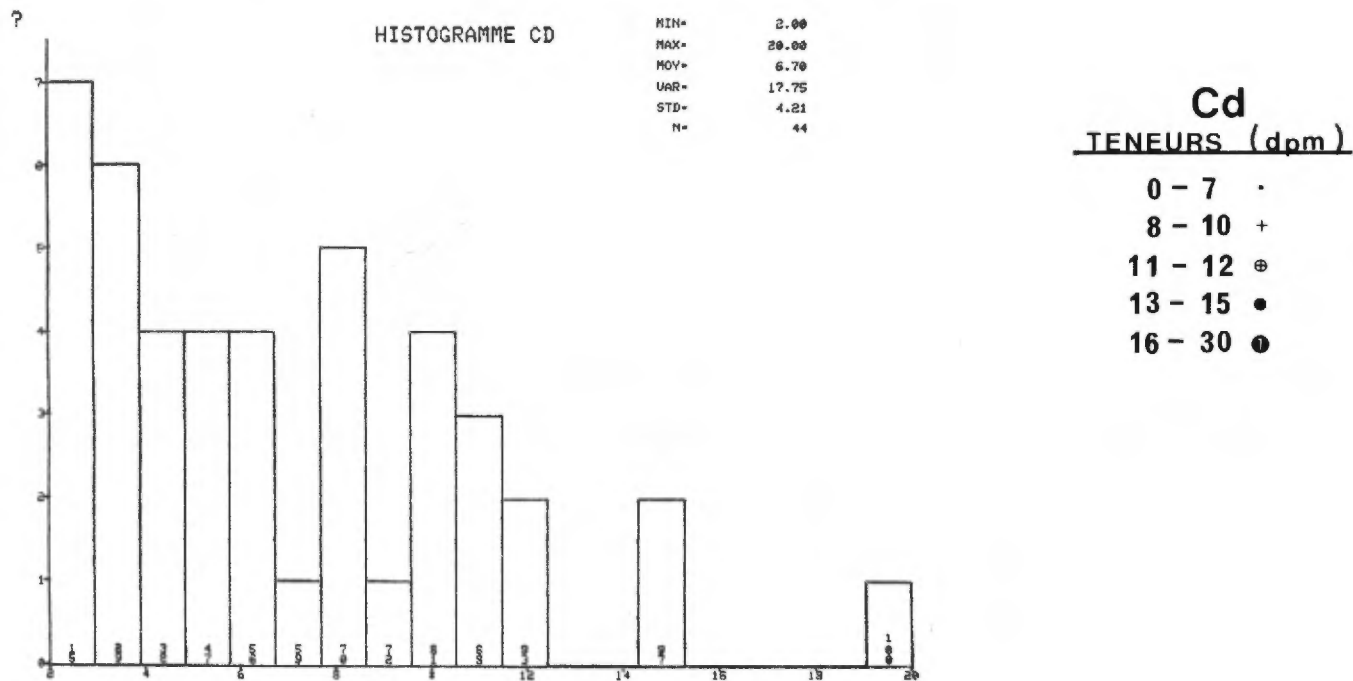
Ba
TENEURS (ppm)
 0-52 ·
 53-92 +
 93-122 ⊕
 123-141 ●
 142-282 ⊙

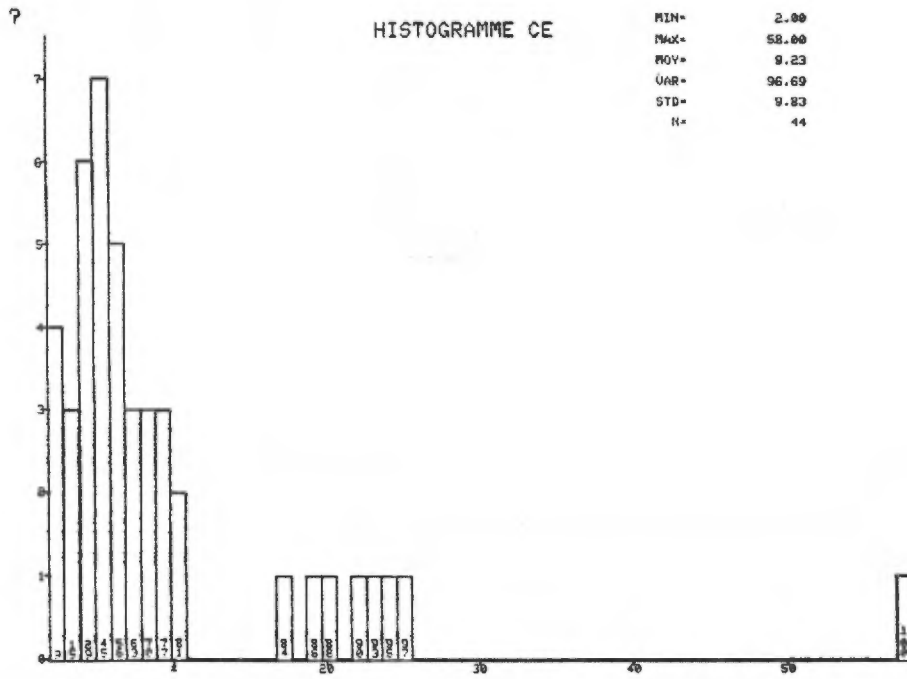




Ca
TENEURS (cct)
 0 - 60 ·
 61 - 100 +
 101 - 178 ⊕
 179 - 199 ●
 200 - 398 ⊙

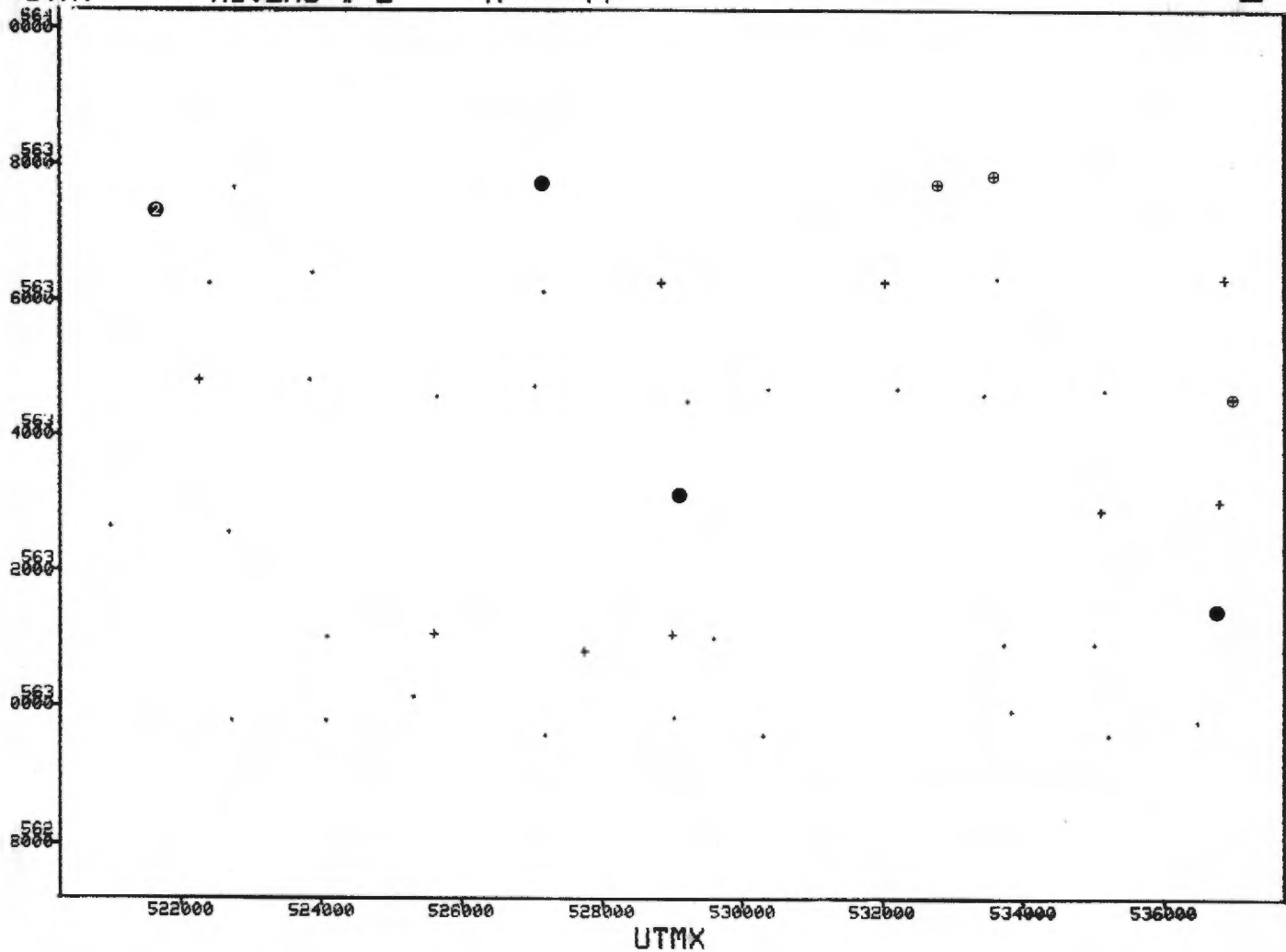


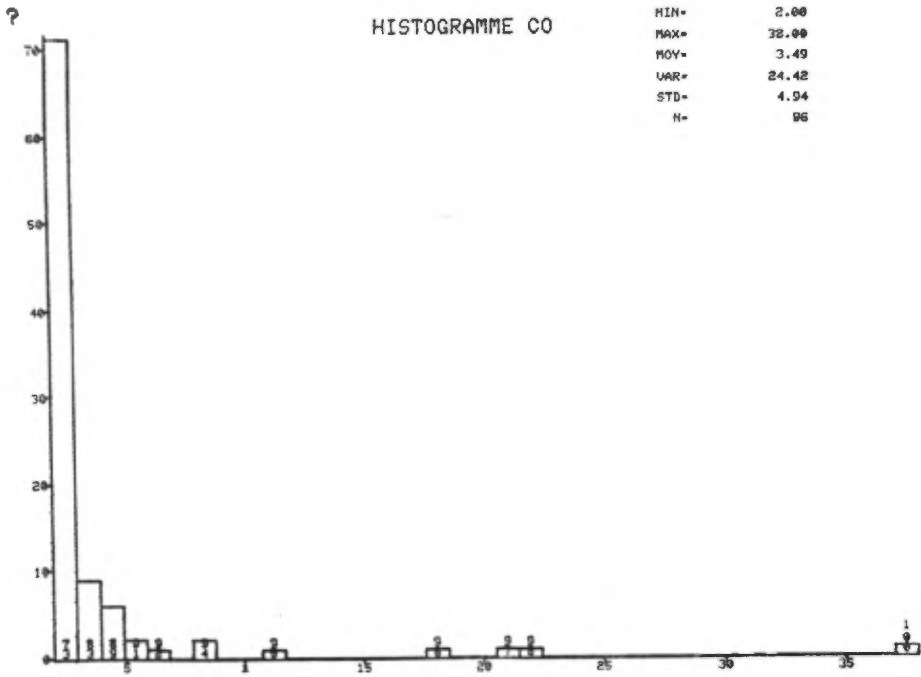




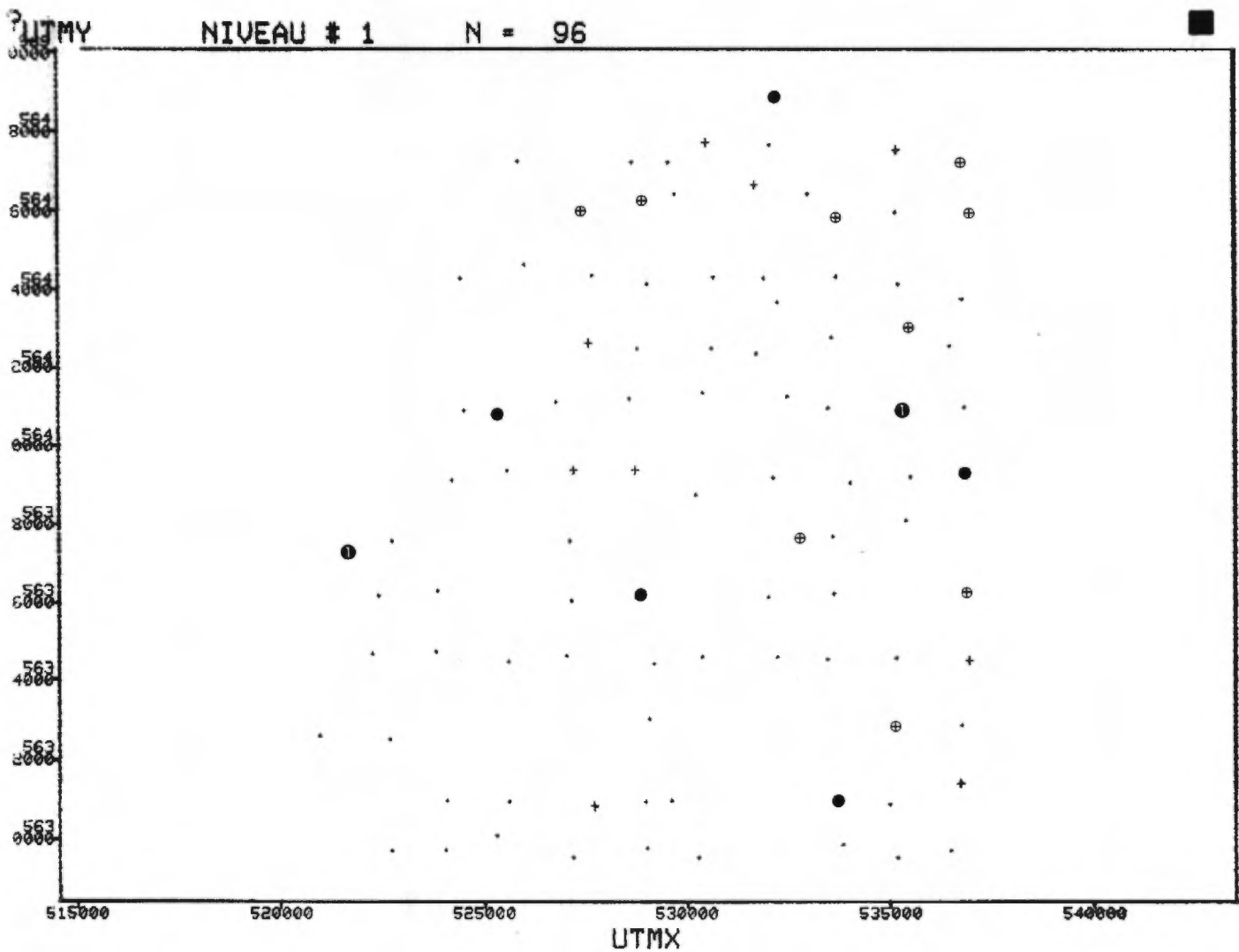
Ce
TENEURS (ppm)
 0 - 7 ·
 8 - 17 +
 18 - 22 ⊕
 23 - 25 ●
 26 - 50 ⊙
 51 - 100 ⊗

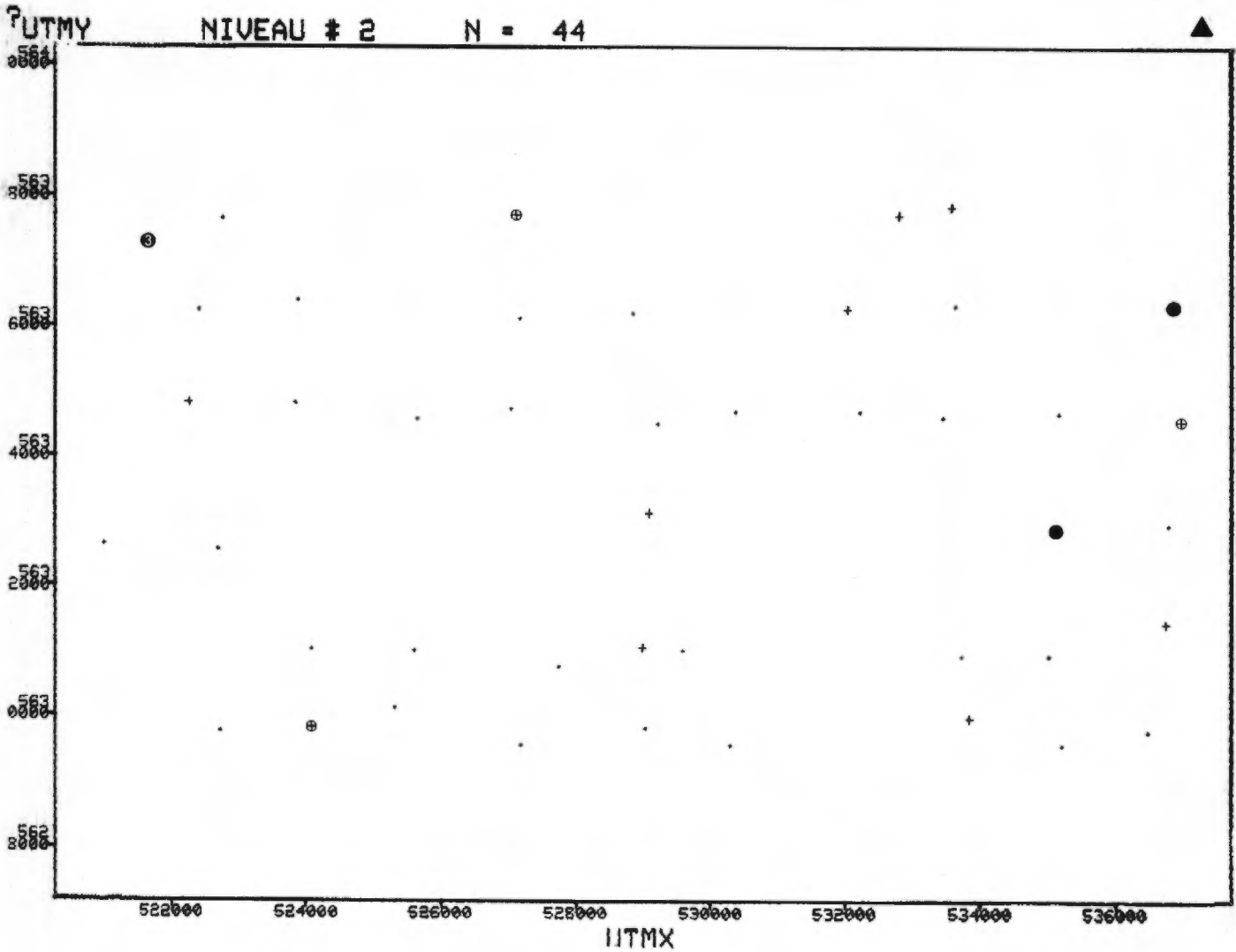
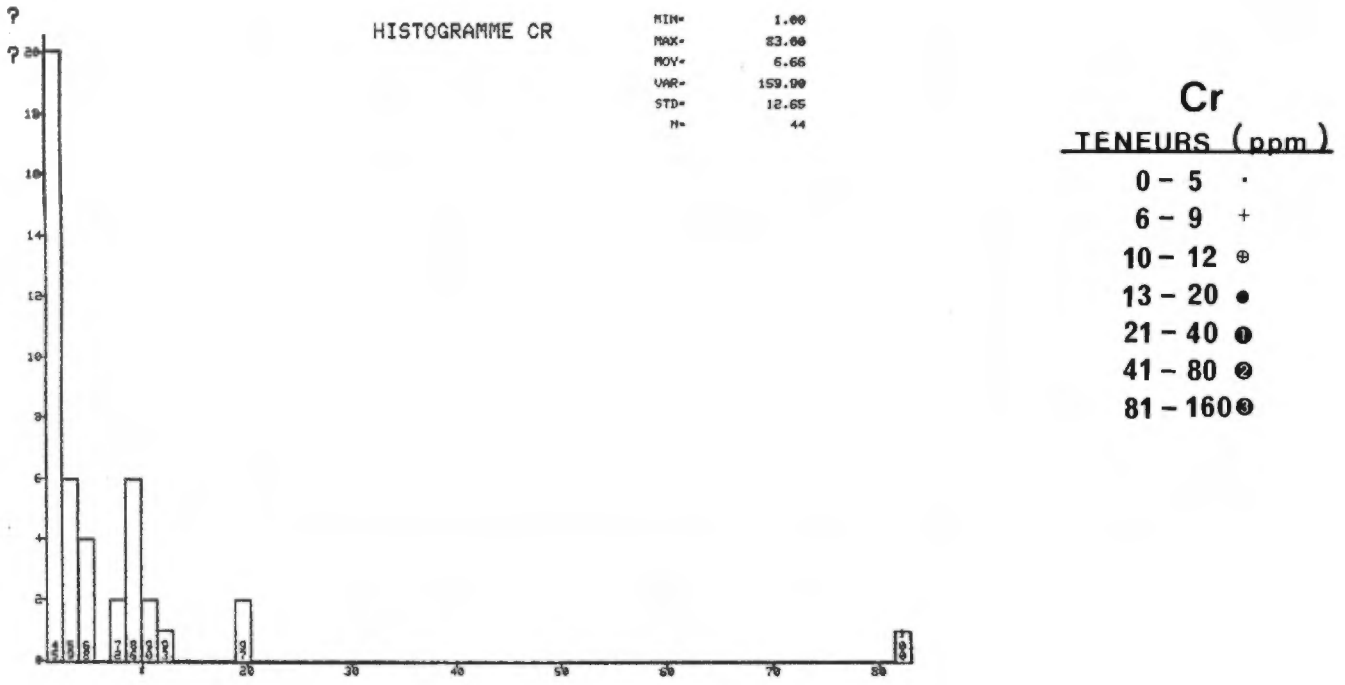
?UTMY NIVEAU # 2 N = 44

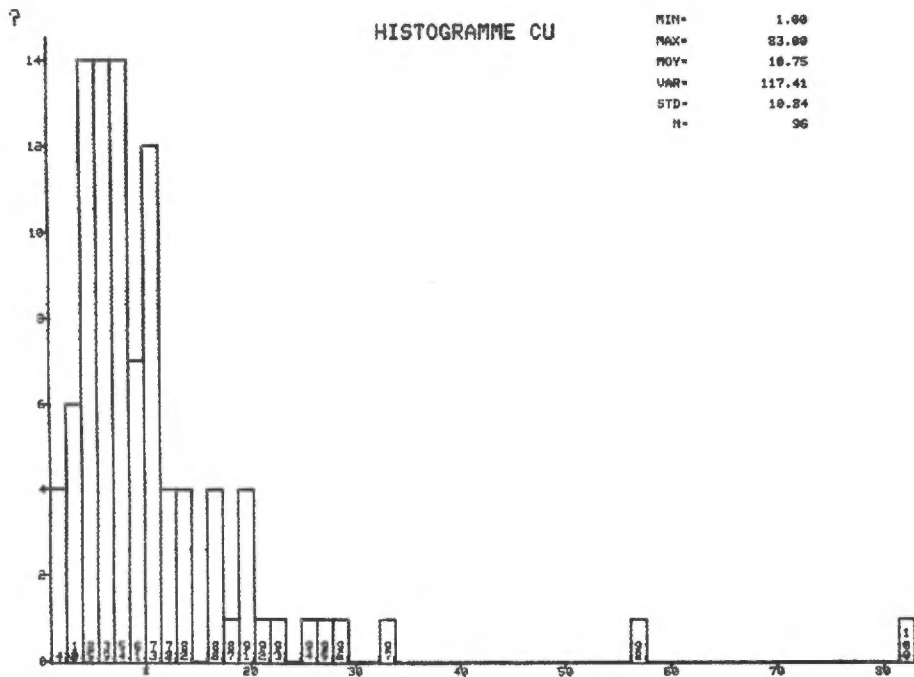




Co
TENEURS (PPM)
0 - 2 ·
3 - 3 +
4 - 6 ⊕
7 - 21 ●
22 - 42 ⊙

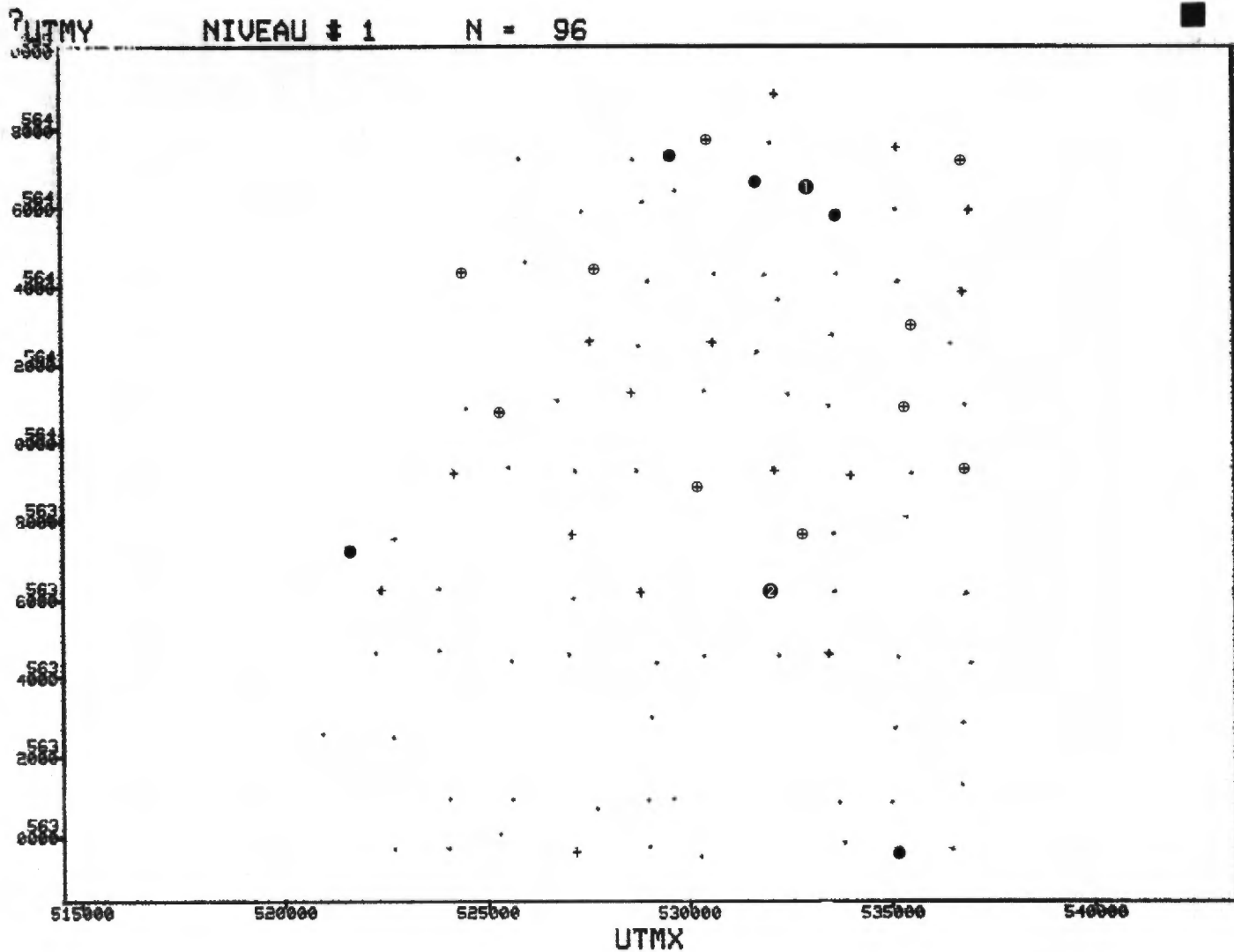


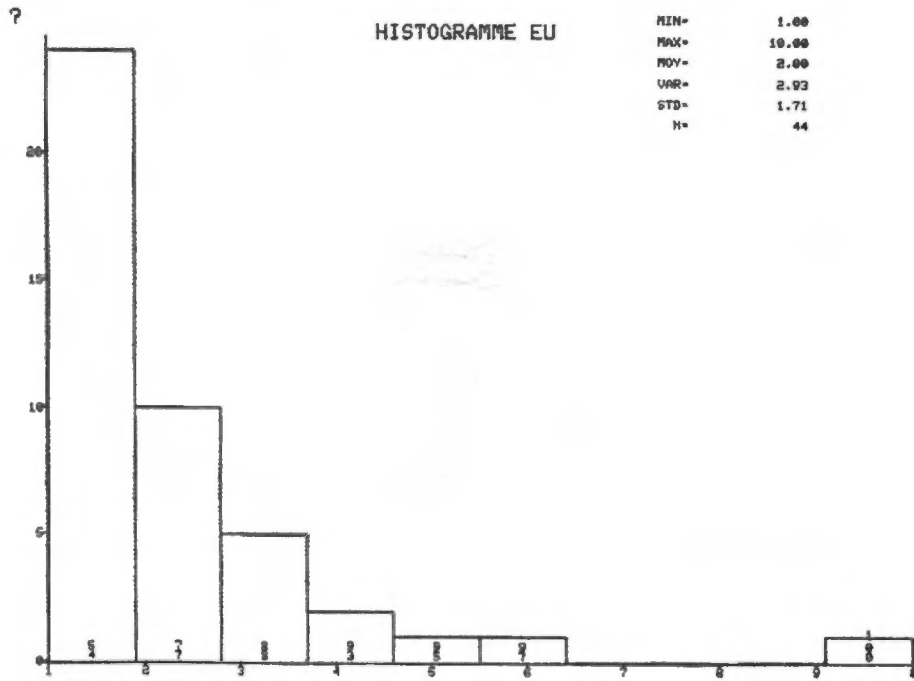




Cu
TENEURS (PPM)

| | |
|----------|---|
| 0 - 10 | · |
| 11 - 15 | + |
| 16 - 21 | ⊕ |
| 22 - 34 | • |
| 35 - 68 | ● |
| 69 - 136 | ⊙ |

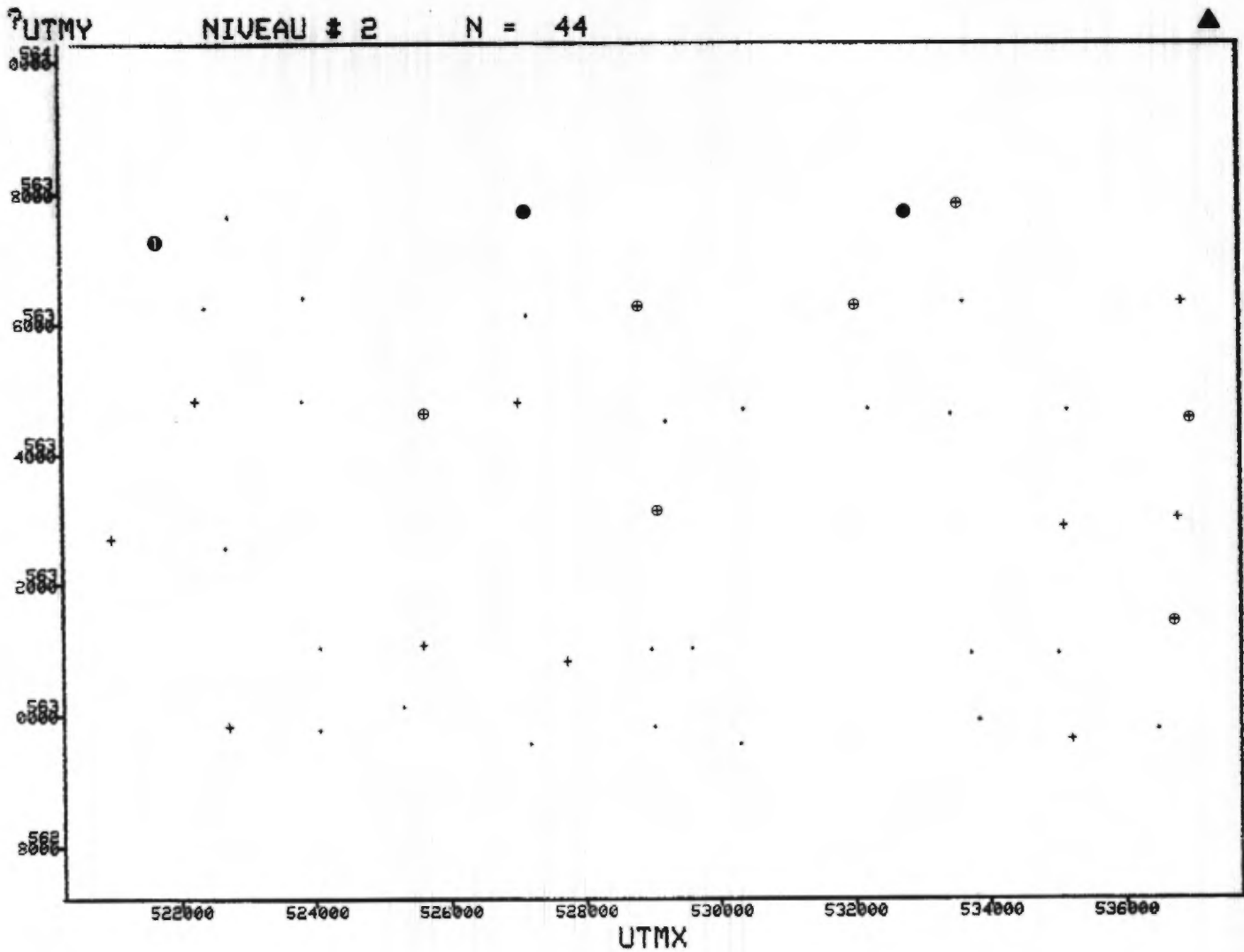


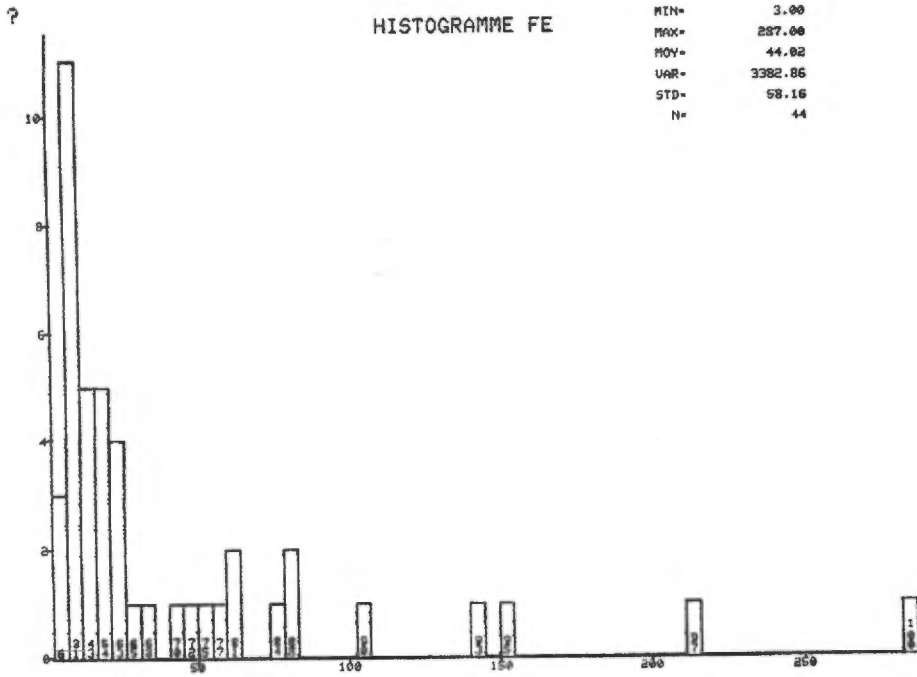


Eu

TENEURS (dpm)

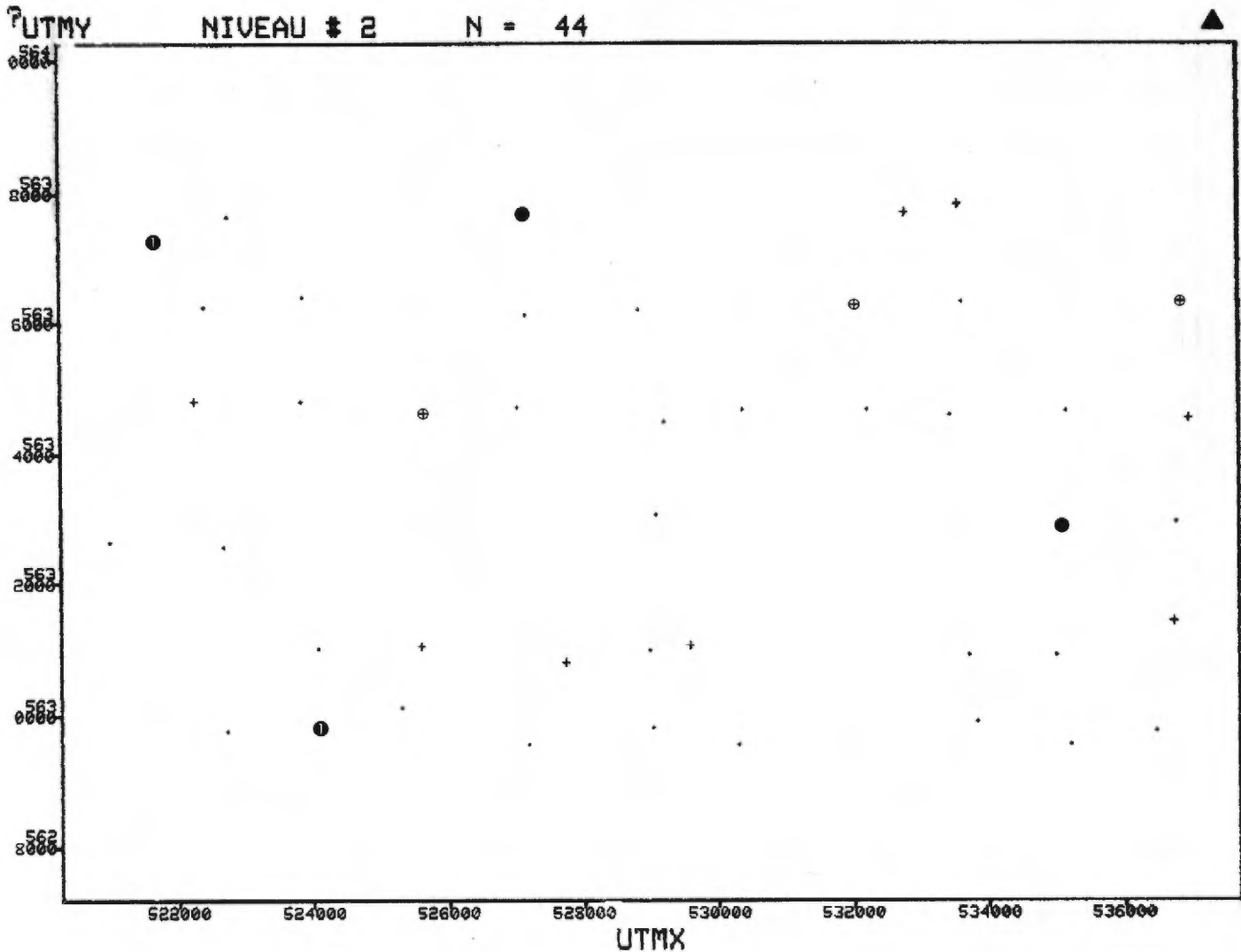
| | |
|--------|---|
| 0 - 1 | . |
| 2 - 2 | + |
| 3 - 4 | ⊕ |
| 5 - 6 | ● |
| 7 - 12 | ⦿ |

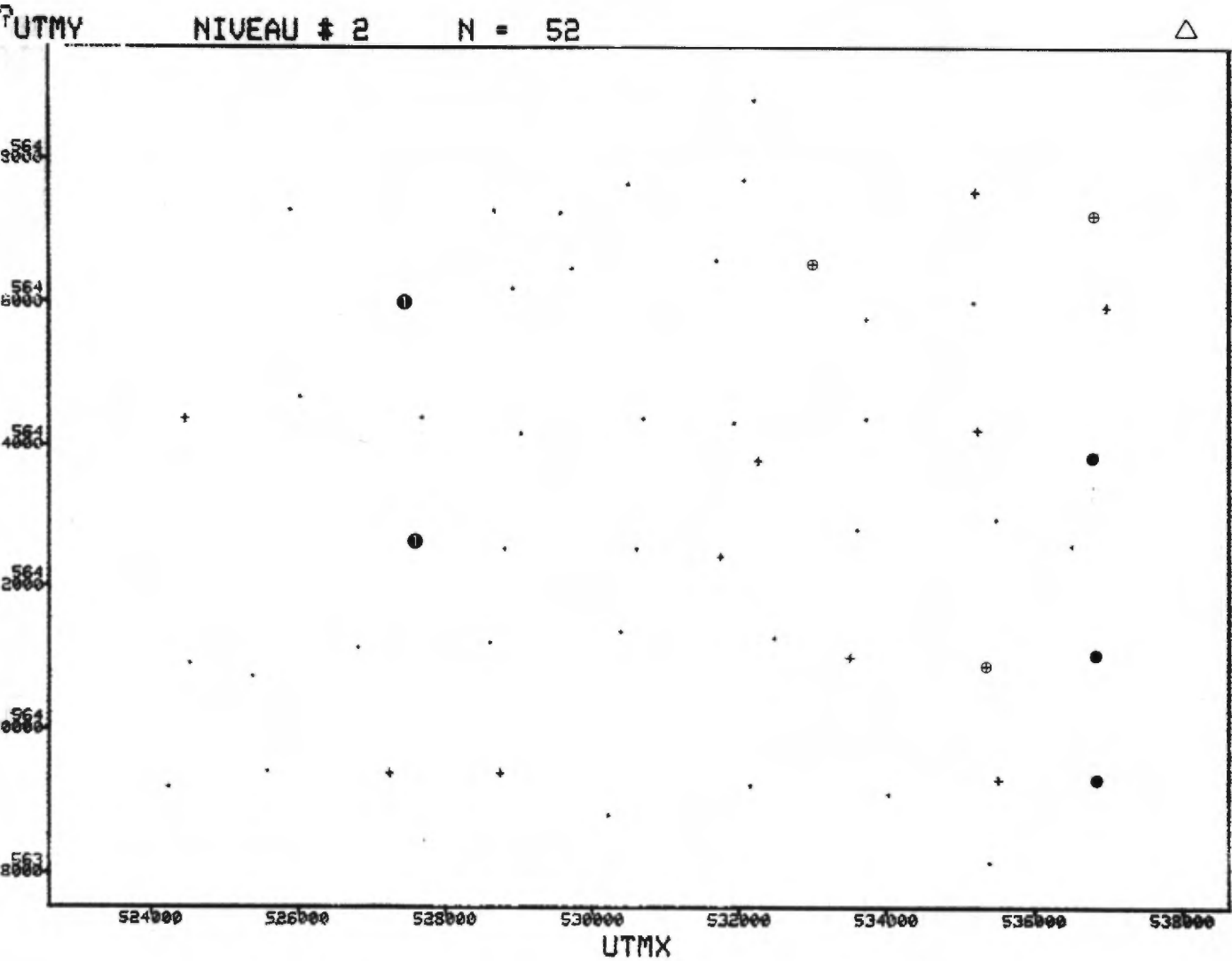
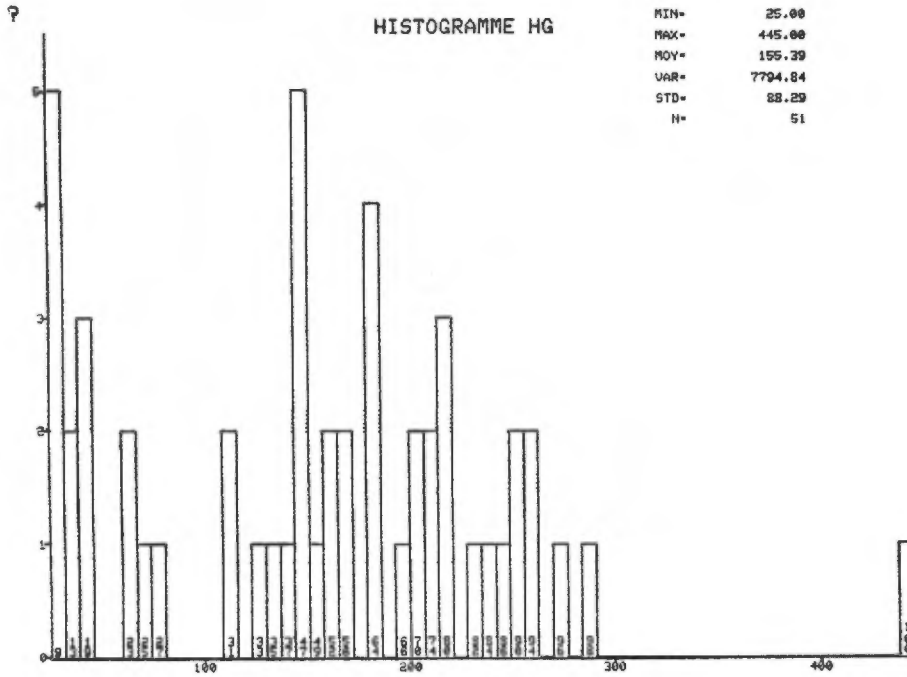


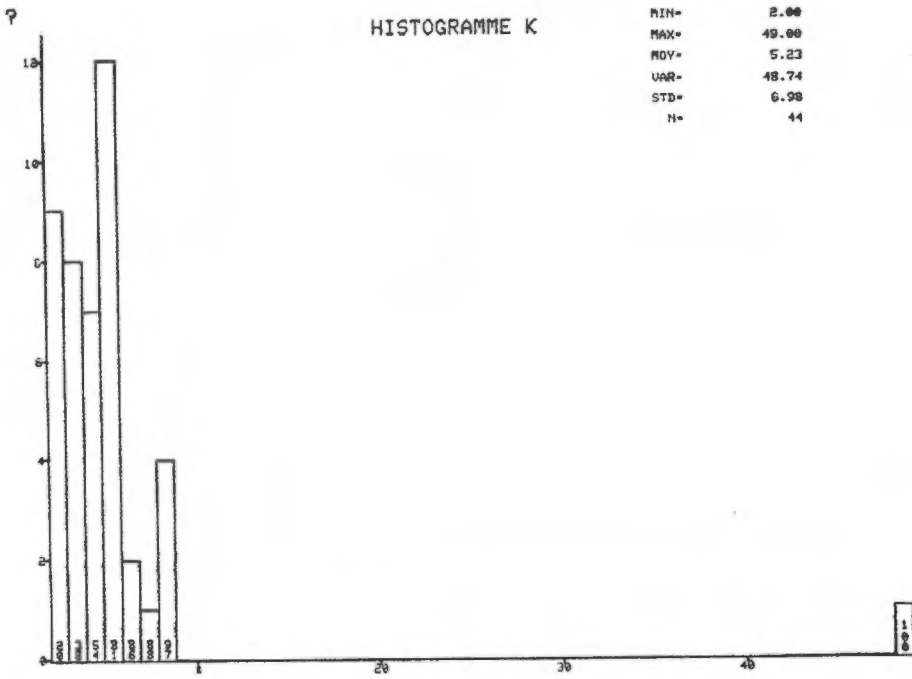


Fe
TENEURS (cct)

- 0 - 33 .
- 34 - 77 +
- 78 - 141 ⊕
- 142 - 214 ●
- 215 - 428 ⊙



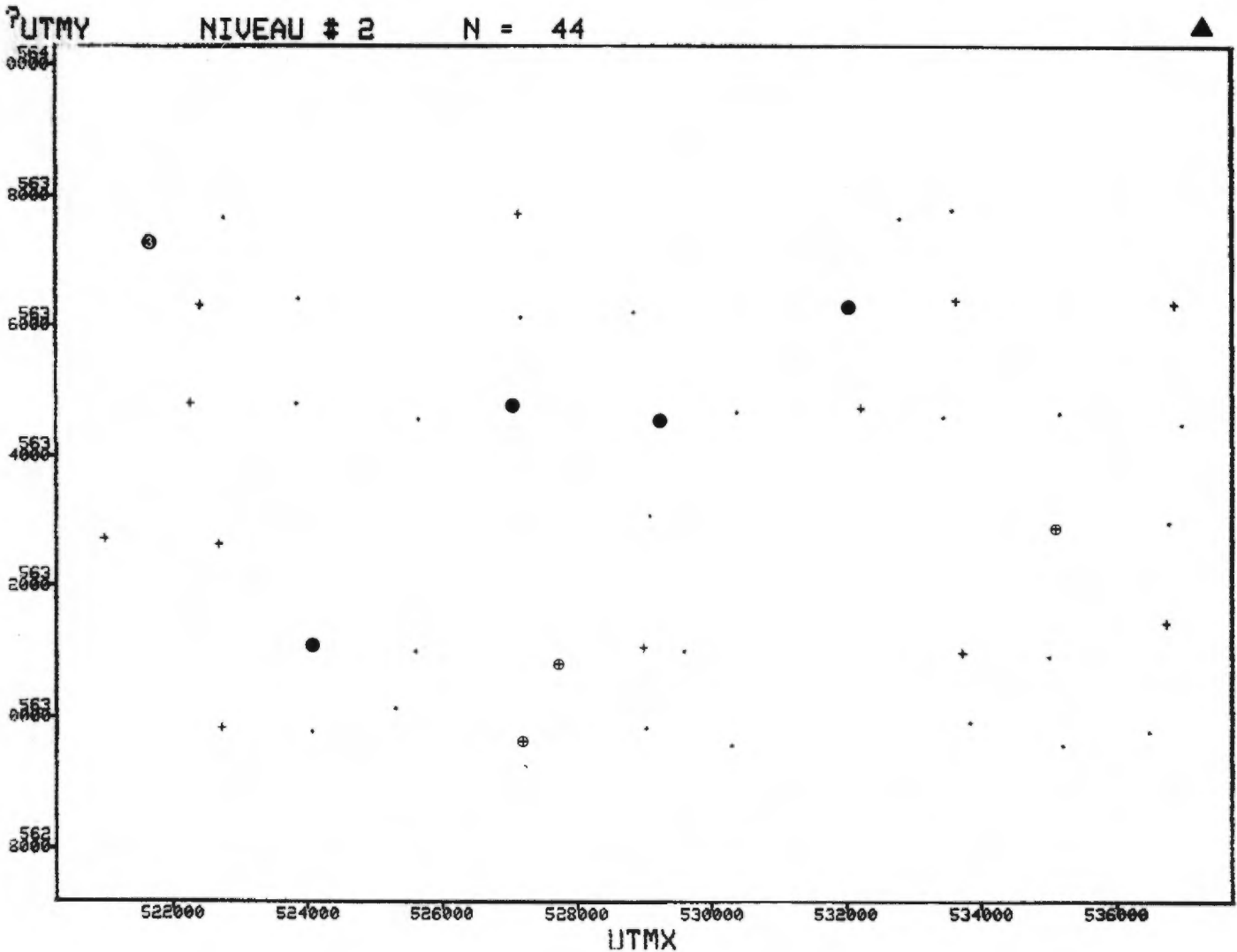


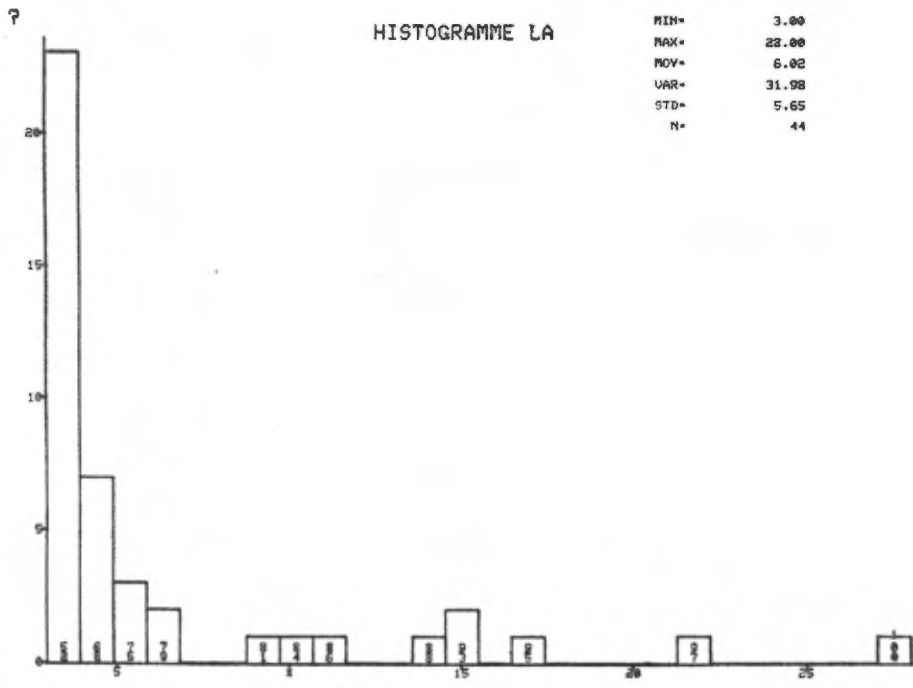


MIN= 2.00
 MAX= 49.00
 MOY= 5.23
 VAR= 48.74
 STD= 6.98
 N= 44

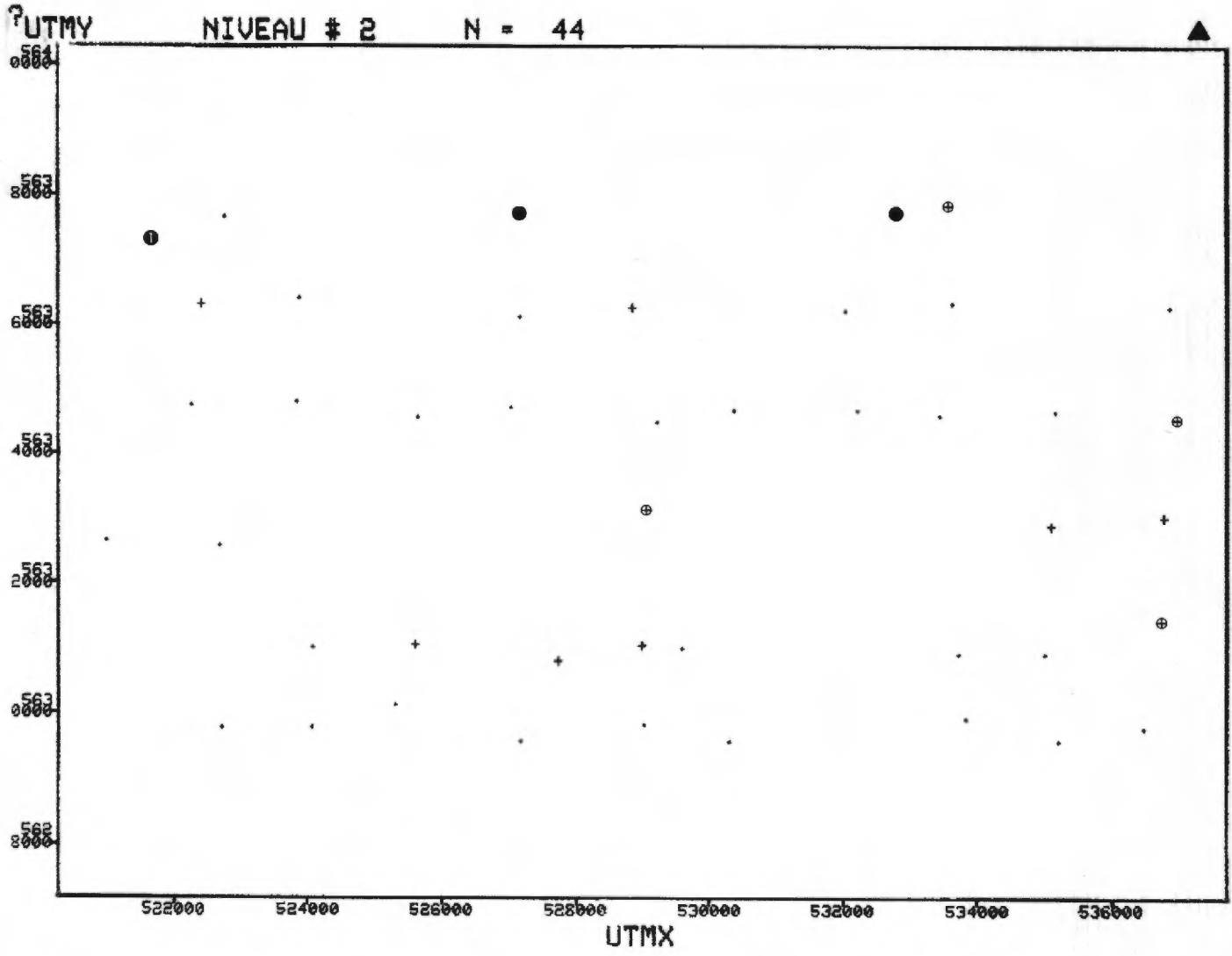
K
TENEURS (cct)

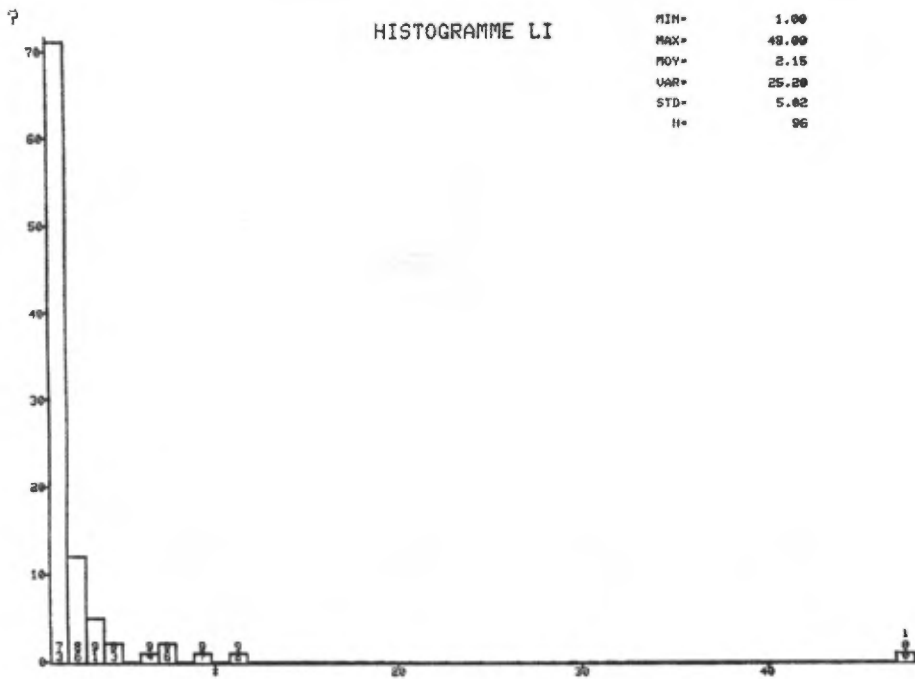
| | |
|-------|---|
| 0-4 | . |
| 5-5 | + |
| 6-7 | ⊕ |
| 8-8 | • |
| 9-16 | ⊙ |
| 17-32 | ⊗ |
| 33-64 | ⊛ |





La
TENEURS (PPM)
 0 - 4 .
 5 - 10 +
 11 - 15 ⊕
 16 - 22 ●
 23 - 44 ⊙

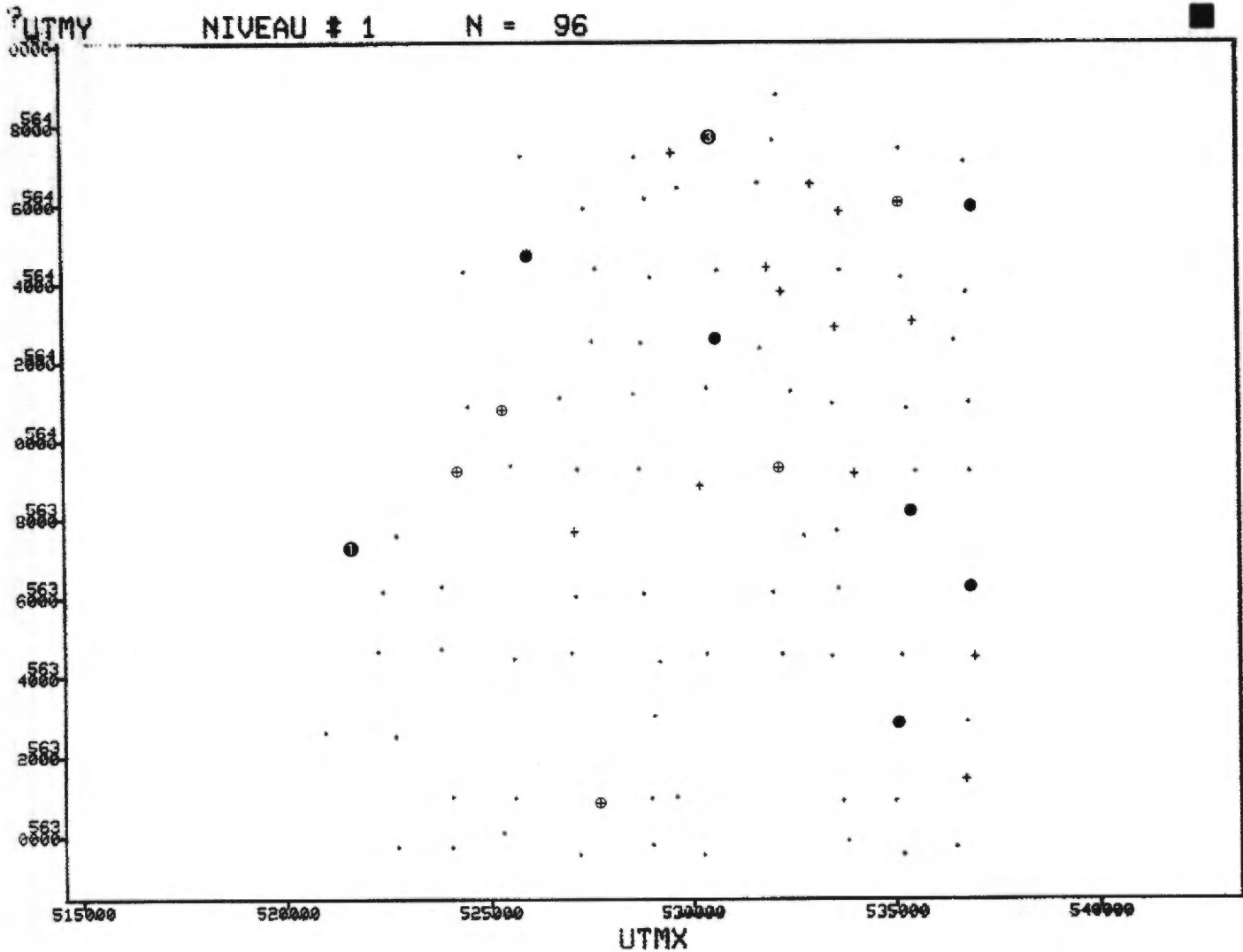


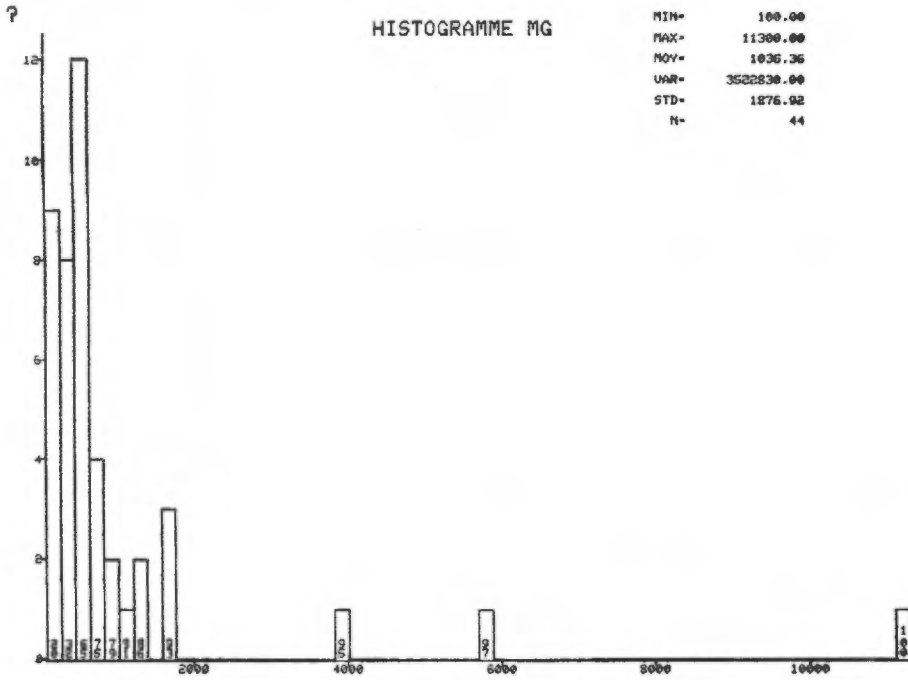


MIN= 1.00
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 MOY= 2.15
 VAR= 25.20
 STD= 5.02
 N= 96

Li
TENEURS (PPM)

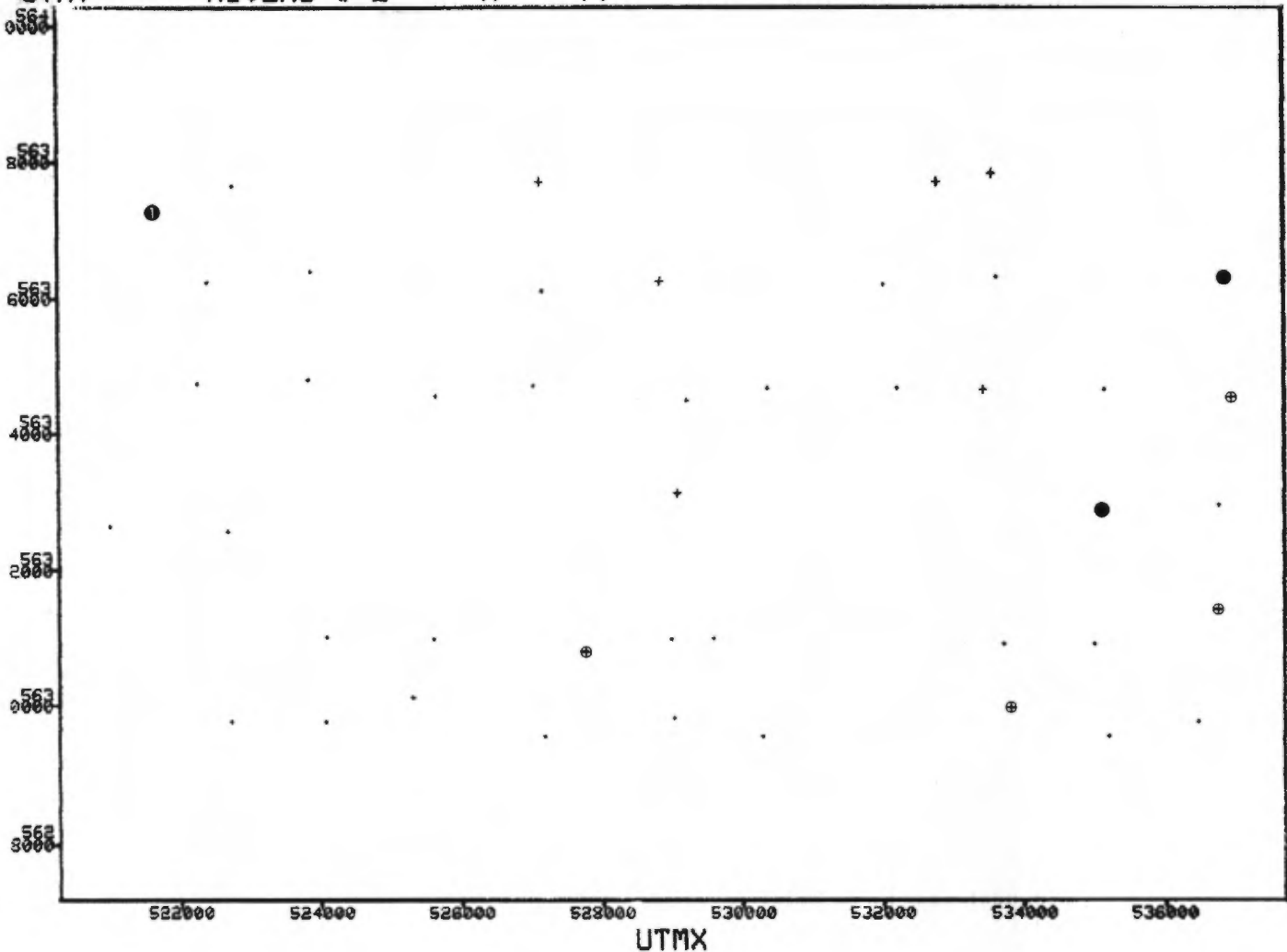
| | |
|---------|---|
| 0 - 1 | · |
| 2 - 2 | + |
| 3 - 3 | ⊕ |
| 4 - 9 | ● |
| 10 - 18 | ⊙ |
| 19 - 36 | ⊗ |
| 37 - 72 | ⊛ |

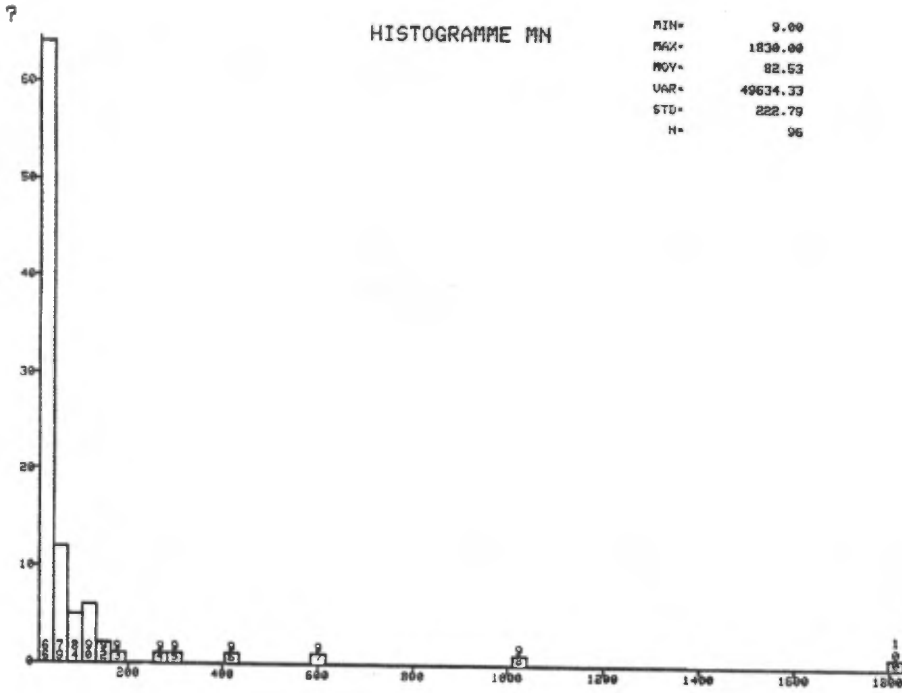




Mg
TENEURS (PPM)
 0 - 750 ·
 751 - 1300 +
 1301 - 1750 ⊕
 1751 - 5800 ●
 5801 - 11600 ⊙

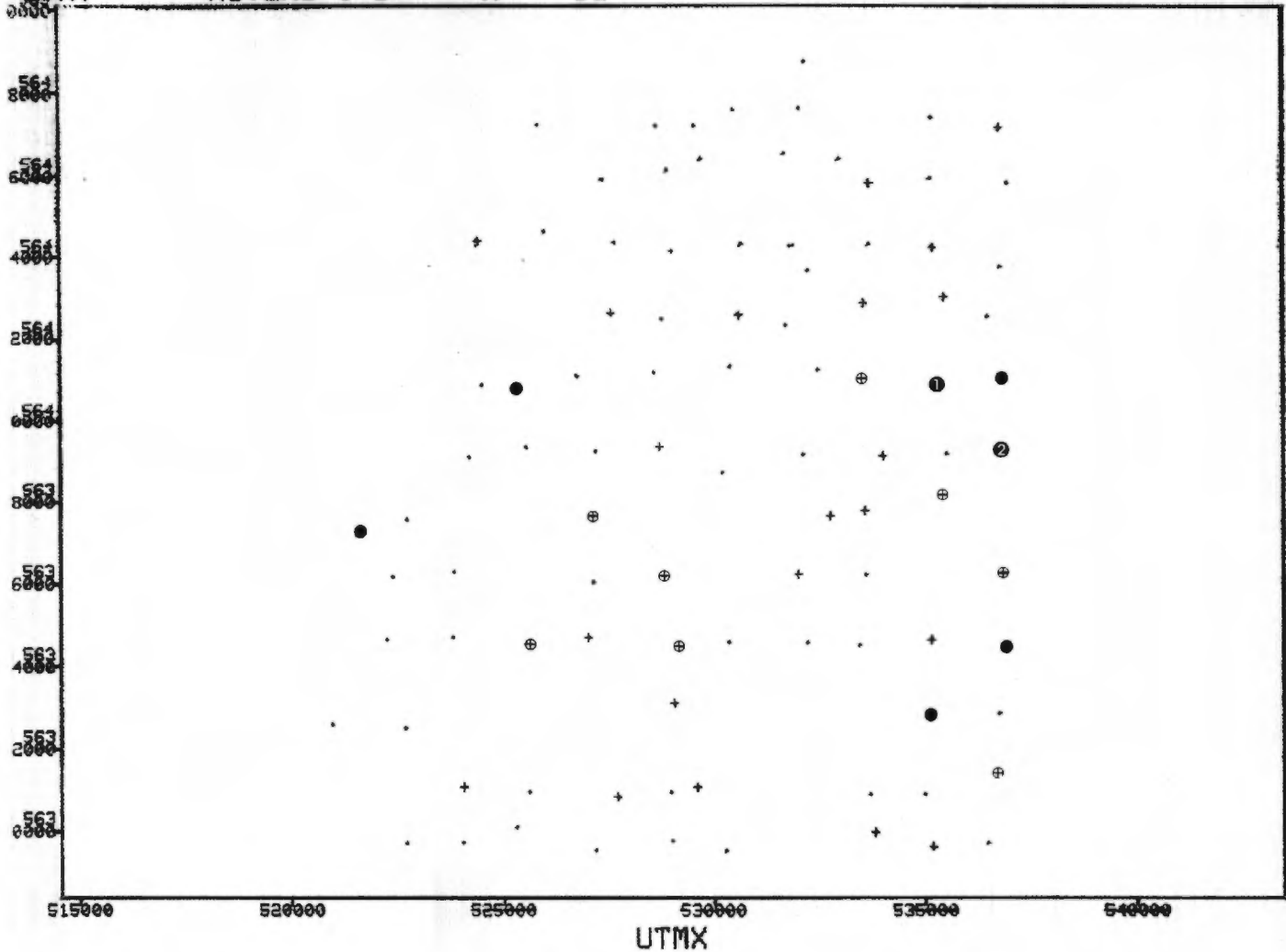
?UTMY NIVEAU # 2 N = 44 ▲

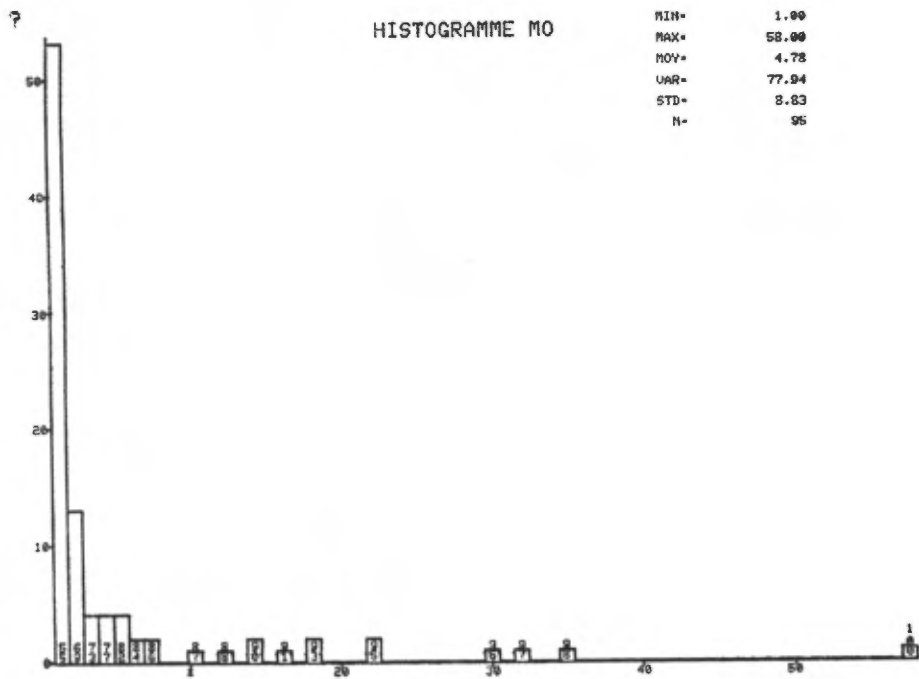




Mn
TENEURS (PPM)
 0 - 35 ·
 36 - 100 +
 101 - 165 ⊕
 166 - 600 ●
 601 - 1200 ⊙
 1201 - 2400 ⊗

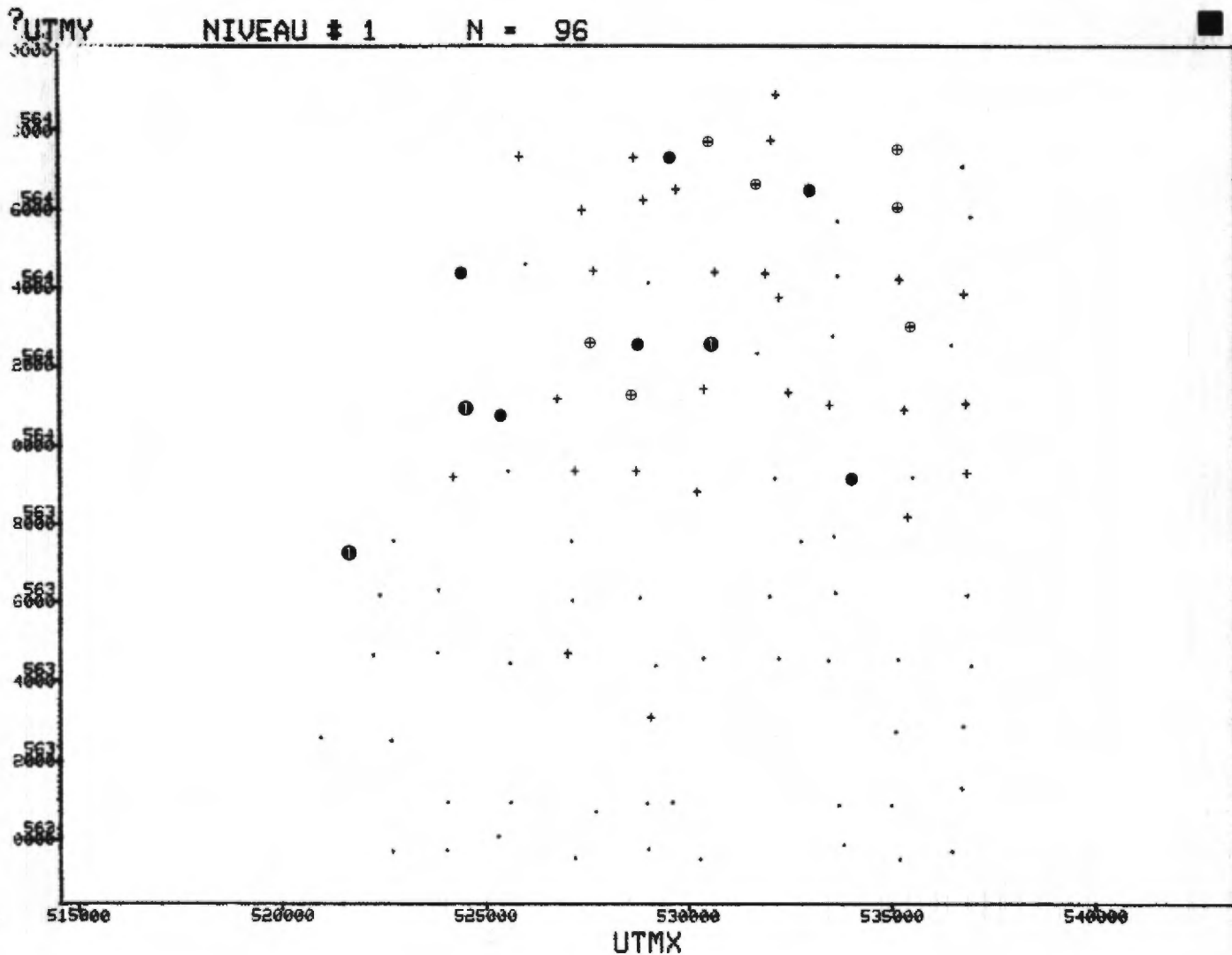
? UTMX NIVEAU # 1 N = 96

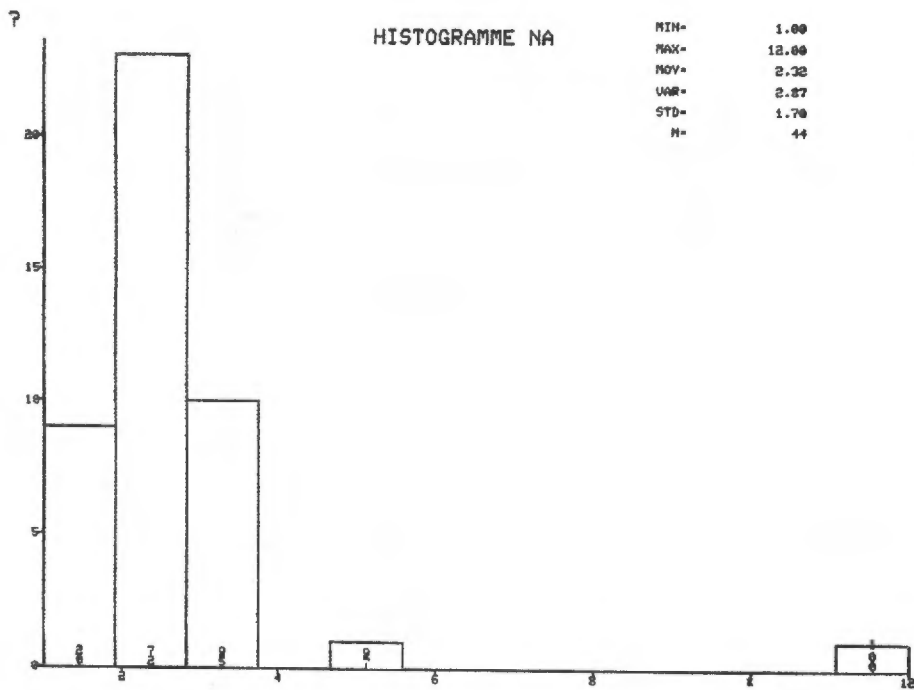




Mo
TENEURS (PPM)

- 0 - 1 .
- 2 - 6 +
- 7 - 17 ⊕
- 18 - 32 ●
- 33 - 64 ⊙

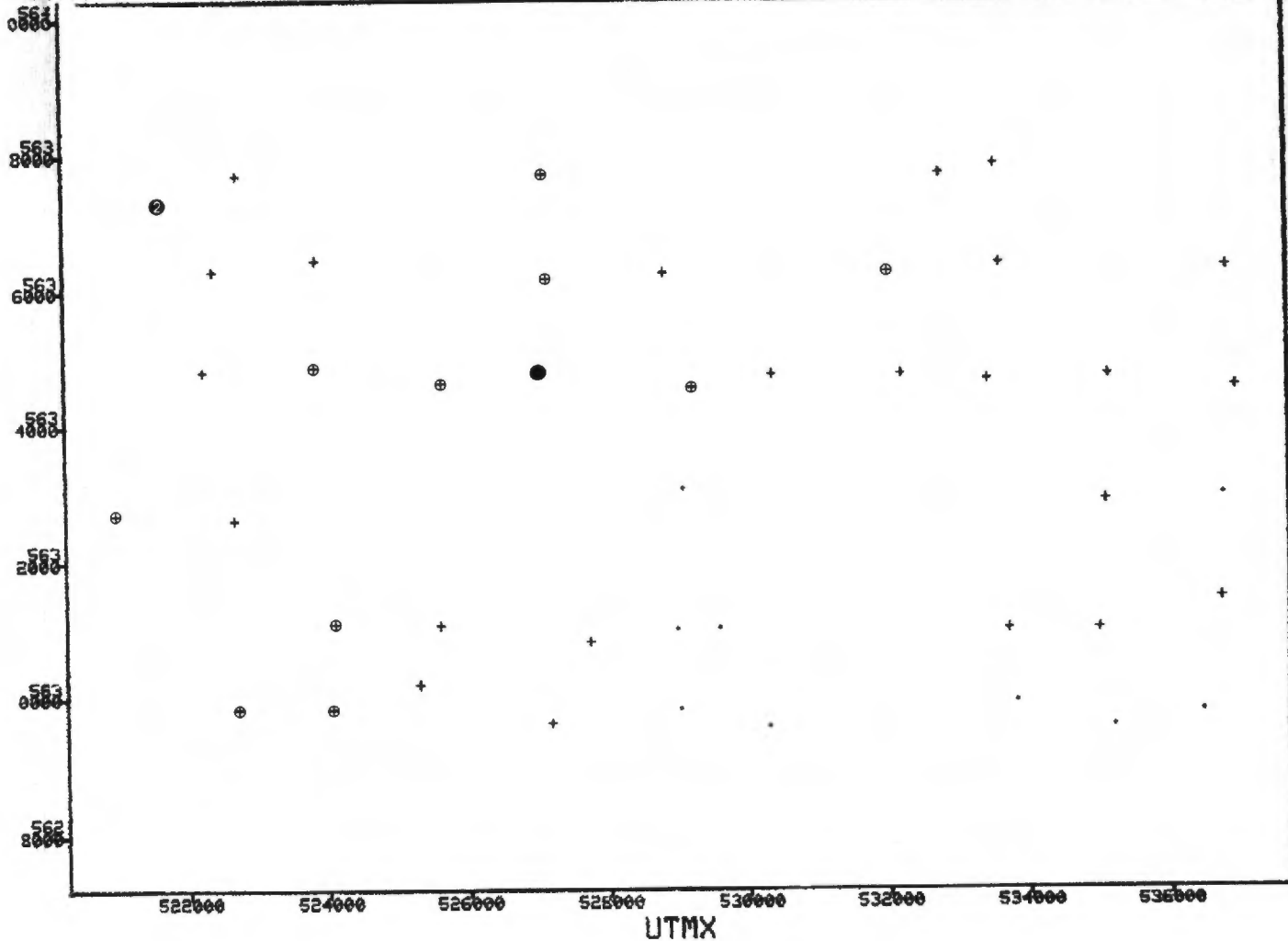


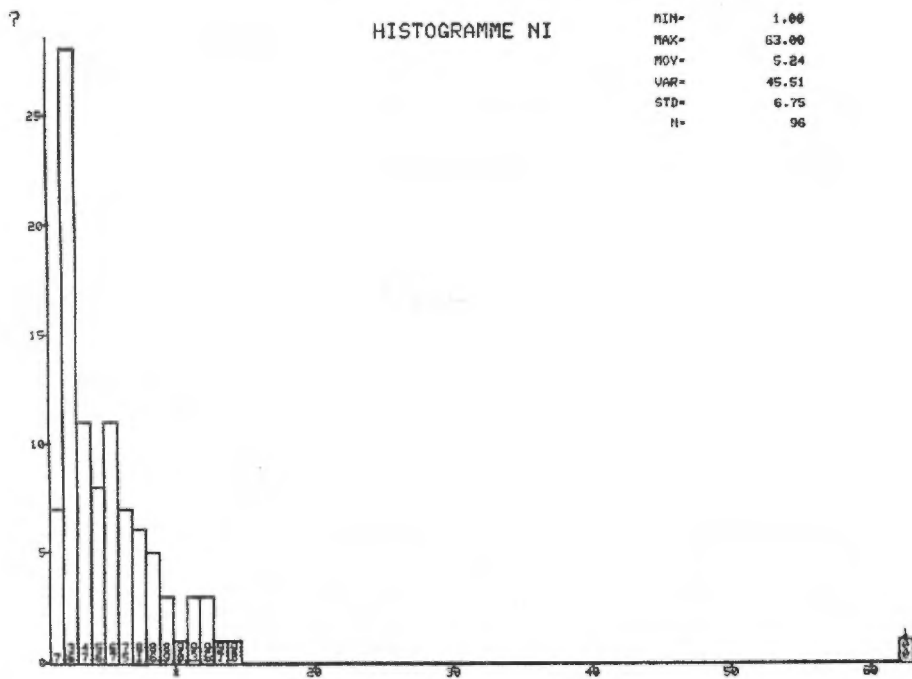


Na
TENEURS (CCT)

- 0 - 1 .
- 2 - 2 +
- 3 - 3 ⊕
- 4 - 5 ●
- 6 - 10 ⊙
- 11 - 20 ⊗

?UTMY NIVEAU # 2 N = 44

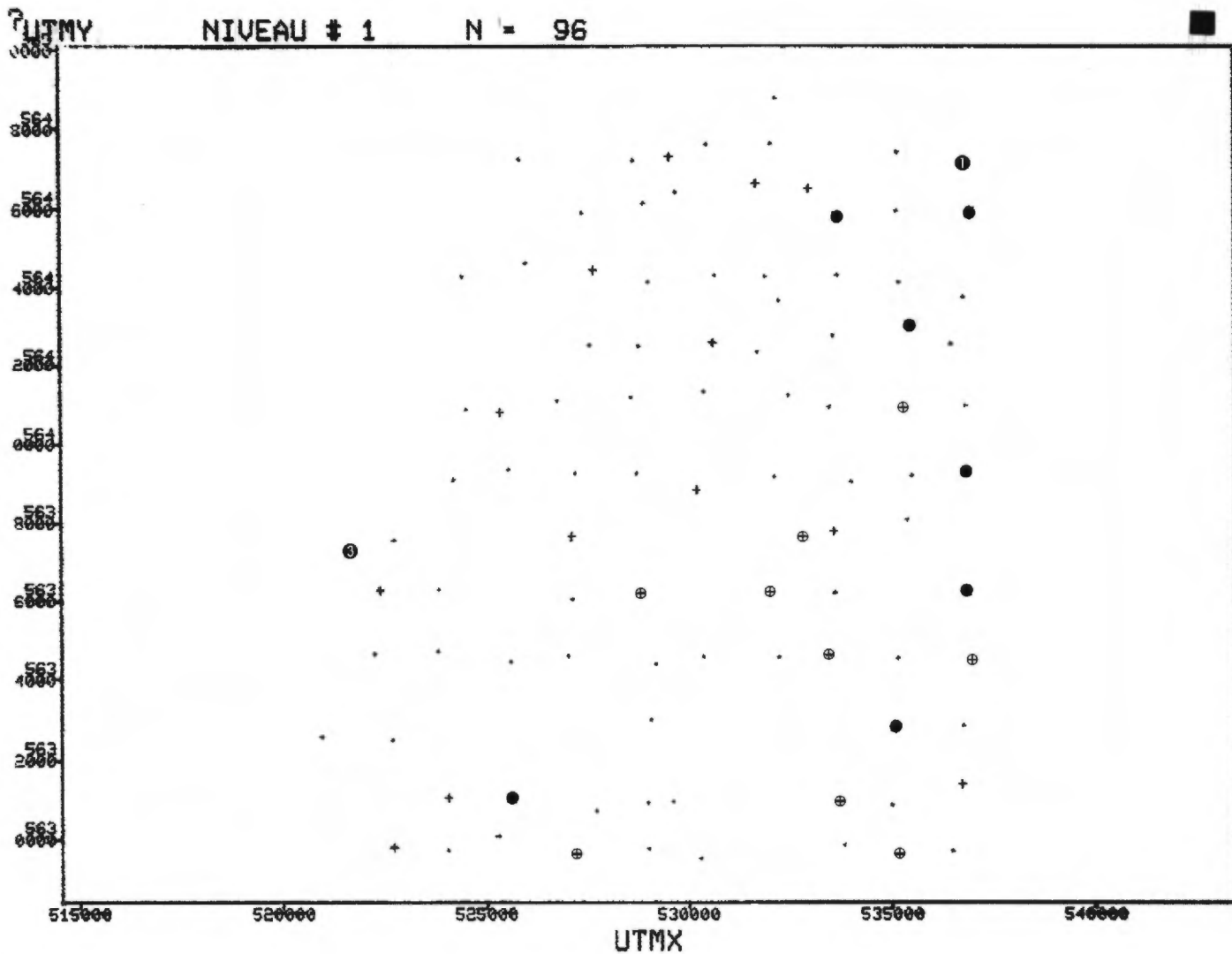


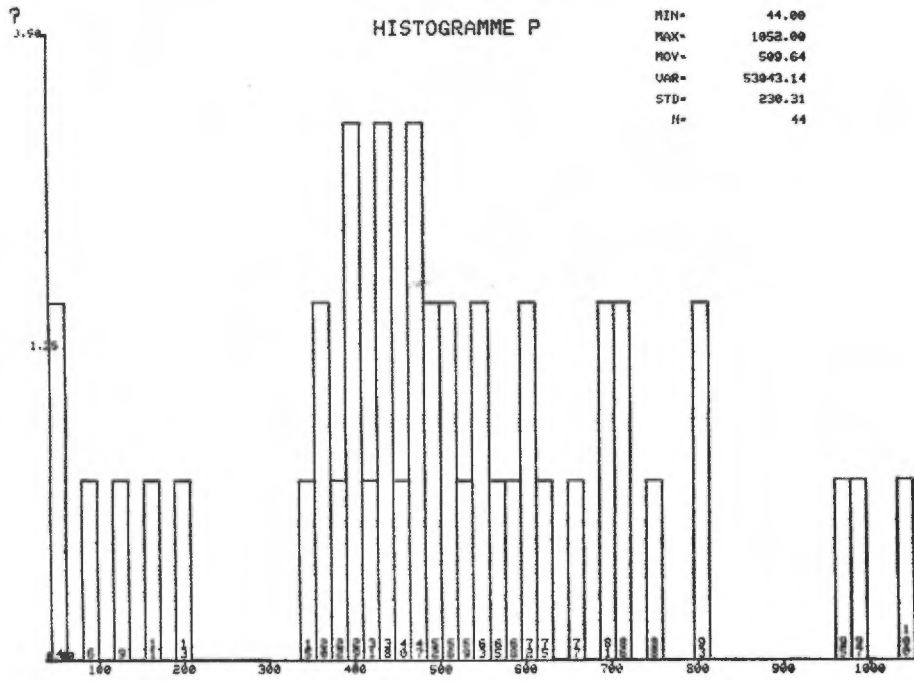


Ni

TENEURS (PPM)

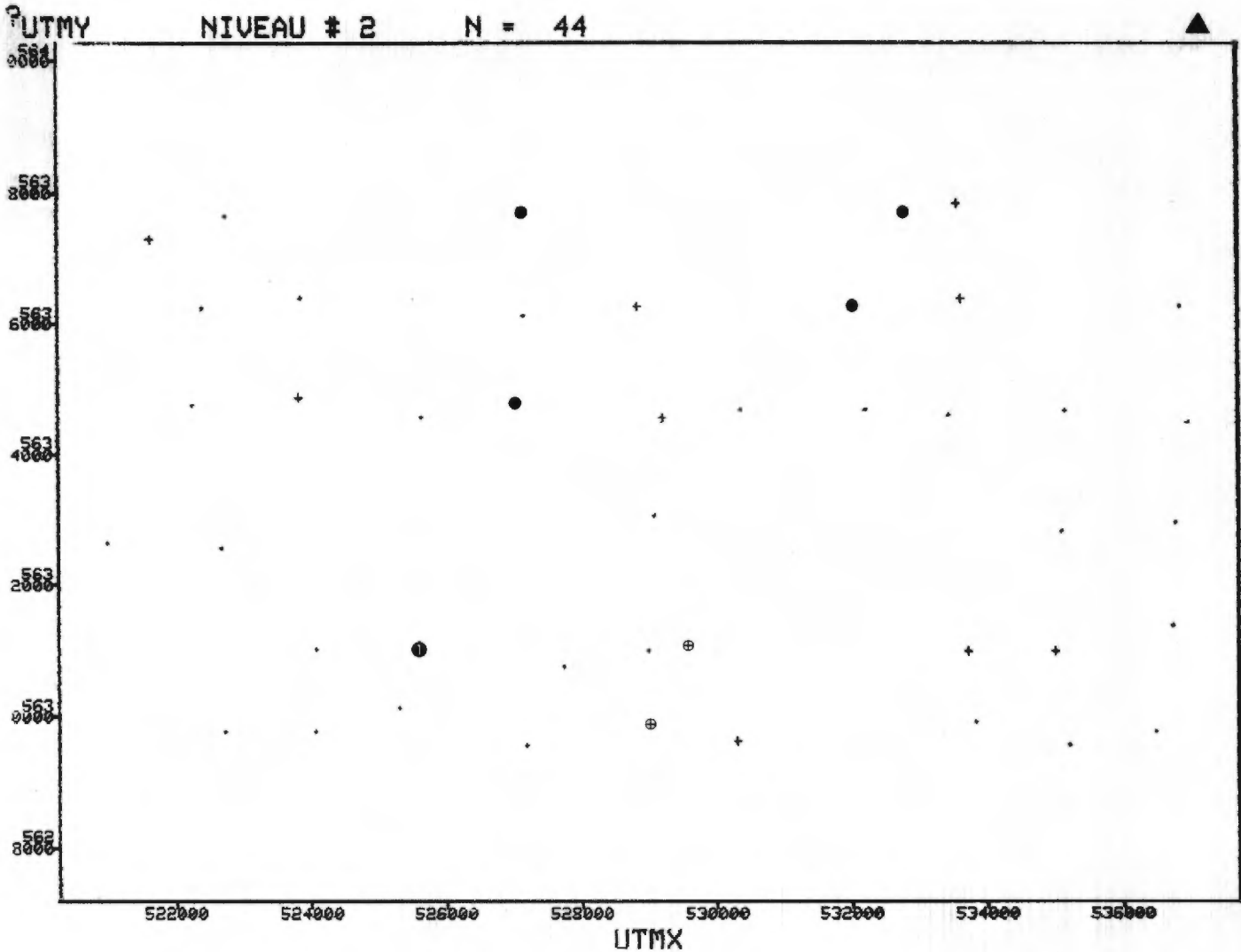
| | |
|----------|---|
| 0 - 5 | . |
| 6 - 7 | + |
| 8 - 10 | ⊕ |
| 11 - 13 | • |
| 14 - 26 | ● |
| 27 - 52 | ⊙ |
| 53 - 104 | ⊗ |

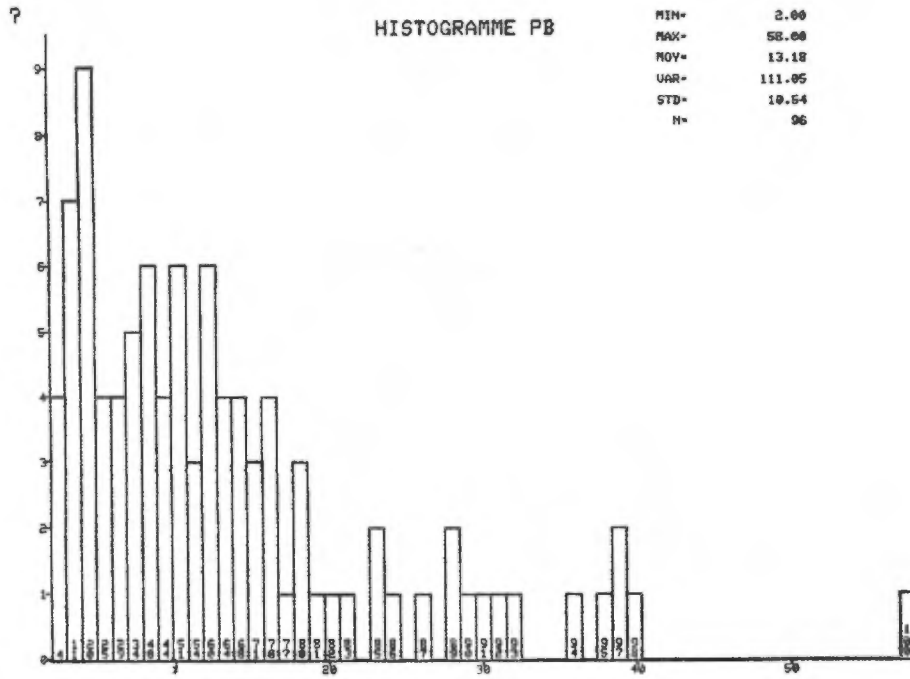




P
TENEURS (PPM)

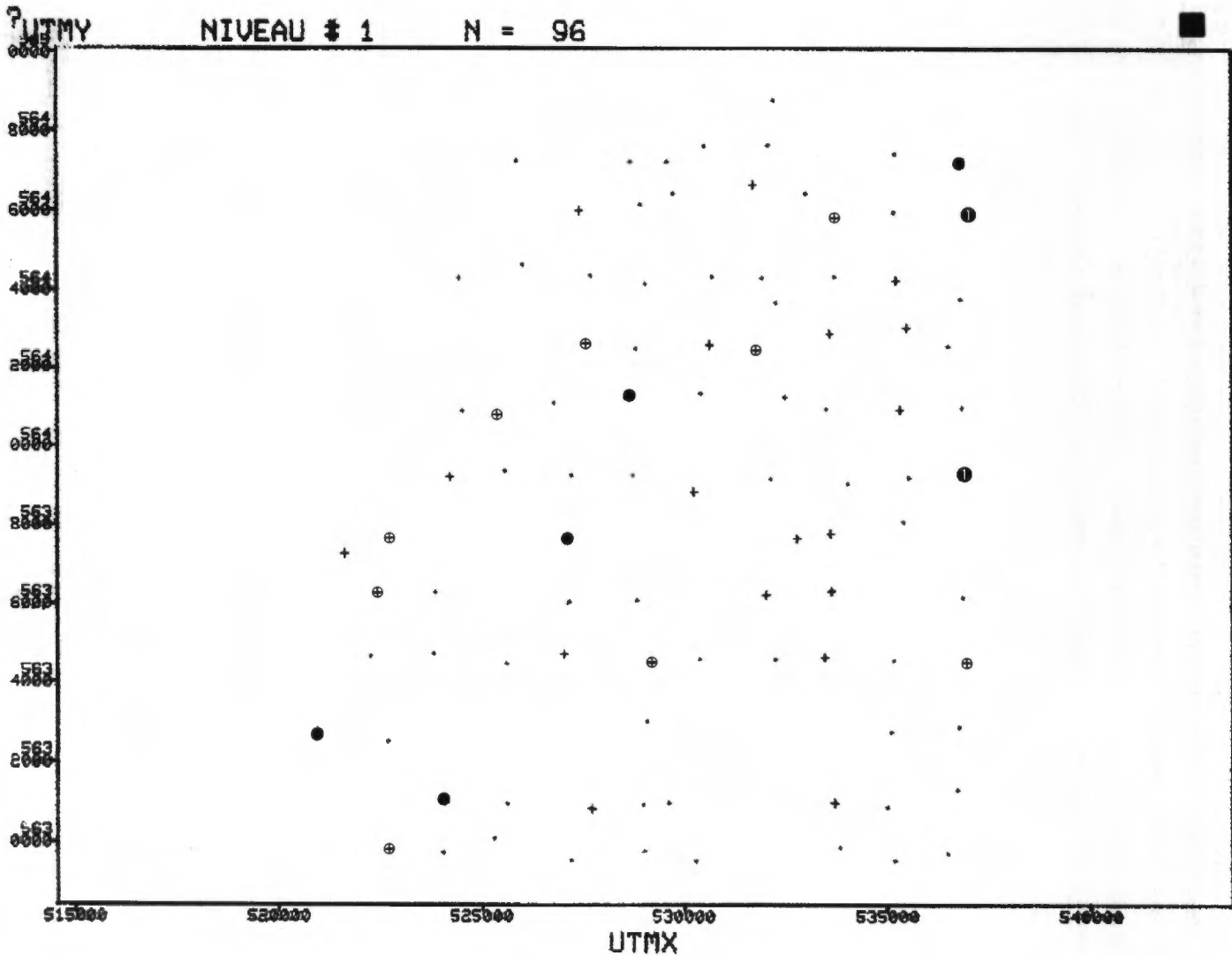
- 0 - 572 ·
- 573 - 720 +
- 721 - 780 ⊕
- 781 - 980 ●
- 981 - 1960 ⊙

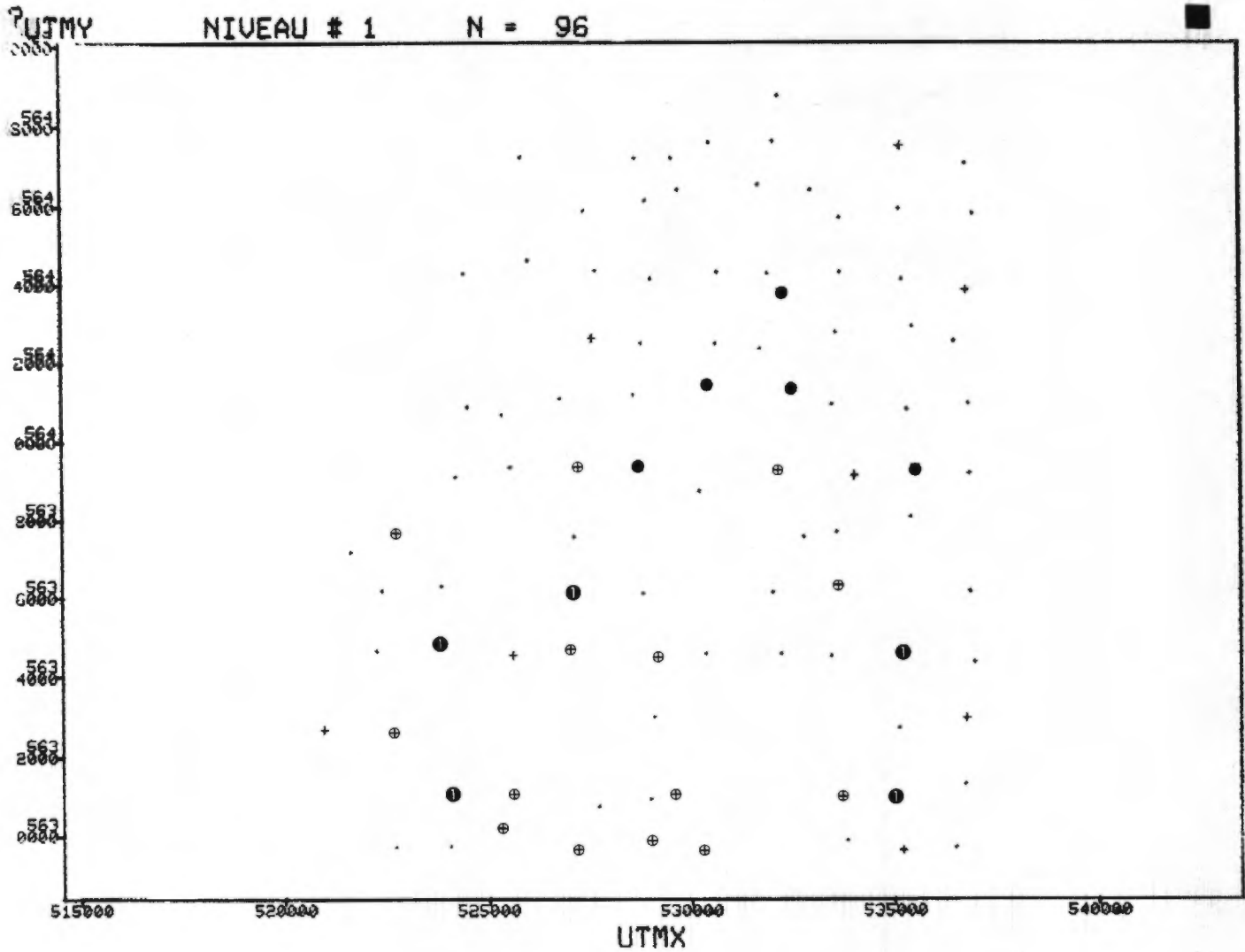
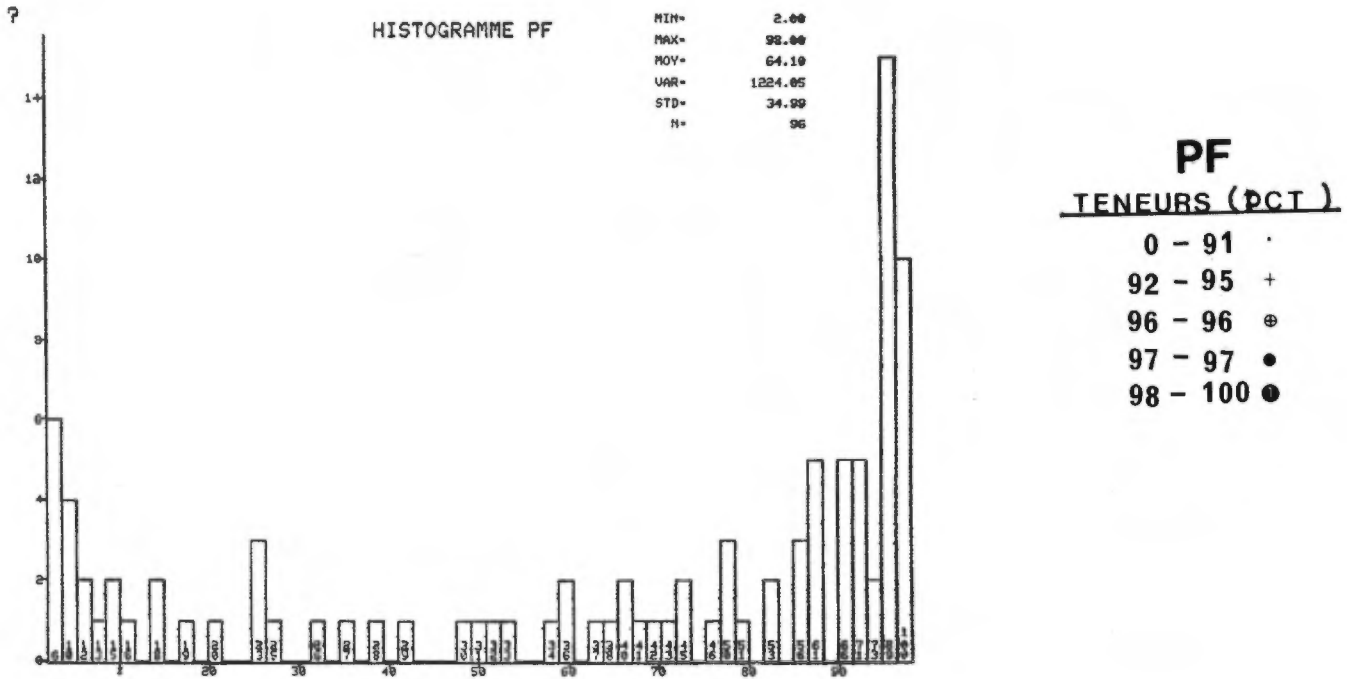


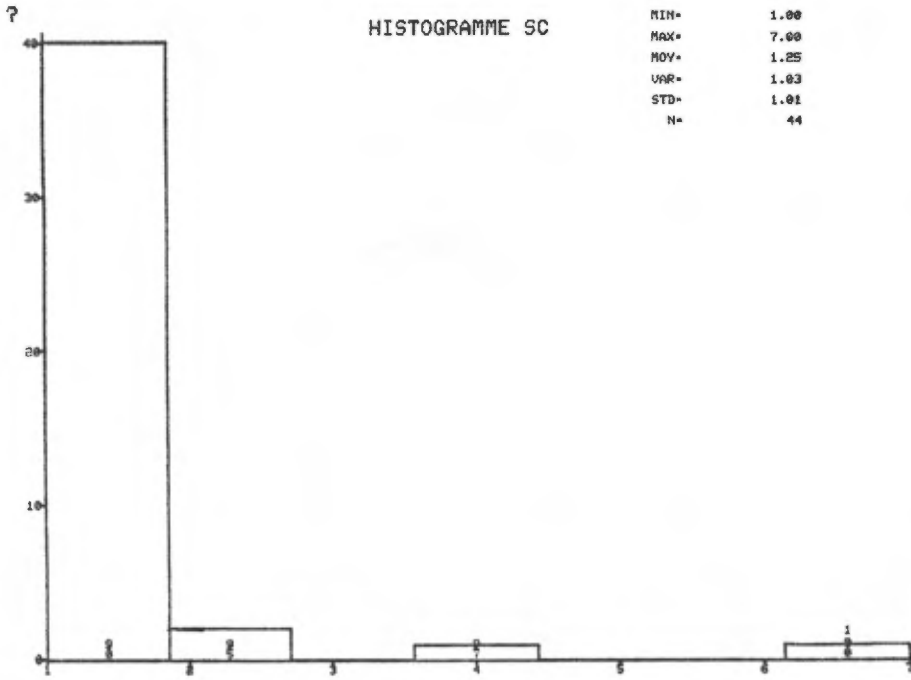


Pb
TENEURS (PPM)

- 0 - 13 ·
- 14 - 22 +
- 23 - 31 ⊕
- 32 - 39 ●
- 40 - 78 ⊙



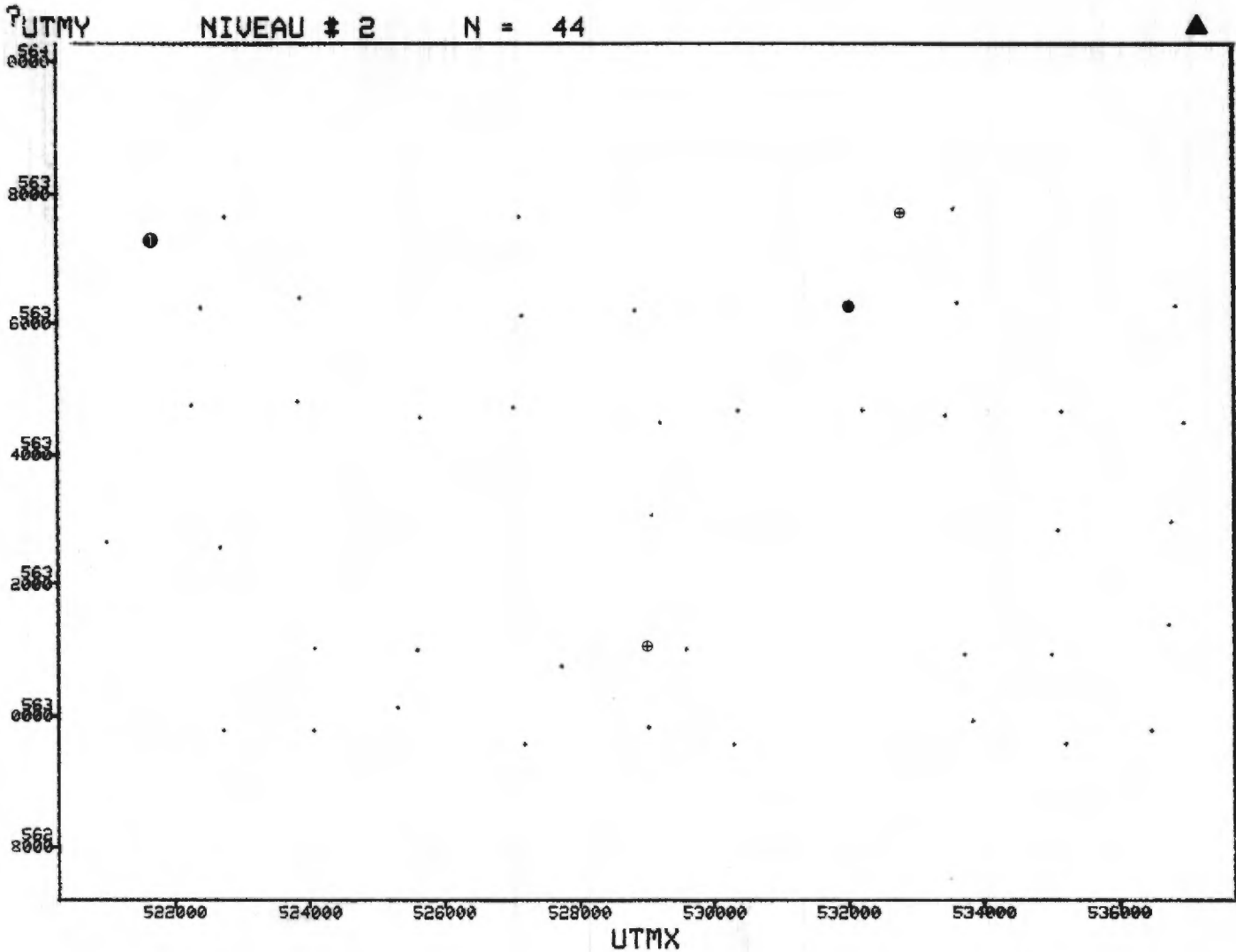


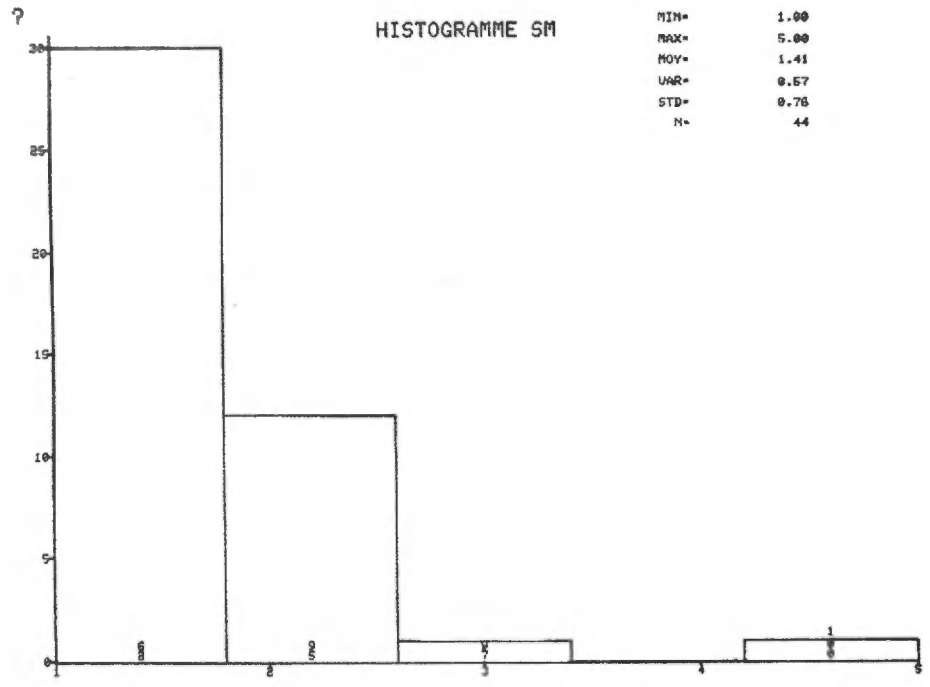


NIN= 1.00
MAX= 7.00
MOY= 1.25
VAR= 1.03
STD= 1.01
N= 44

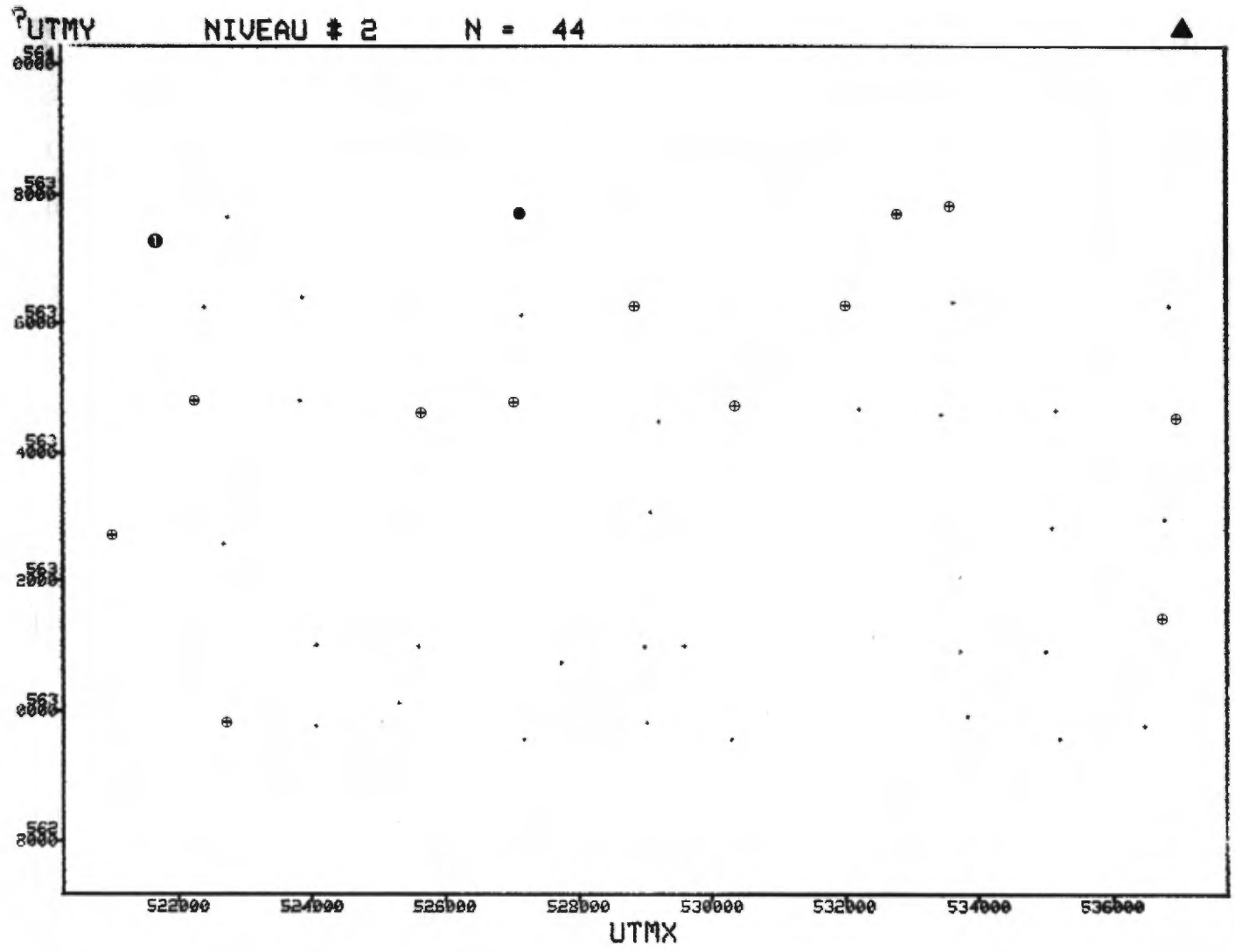
Sc
TENEURS (PPM)

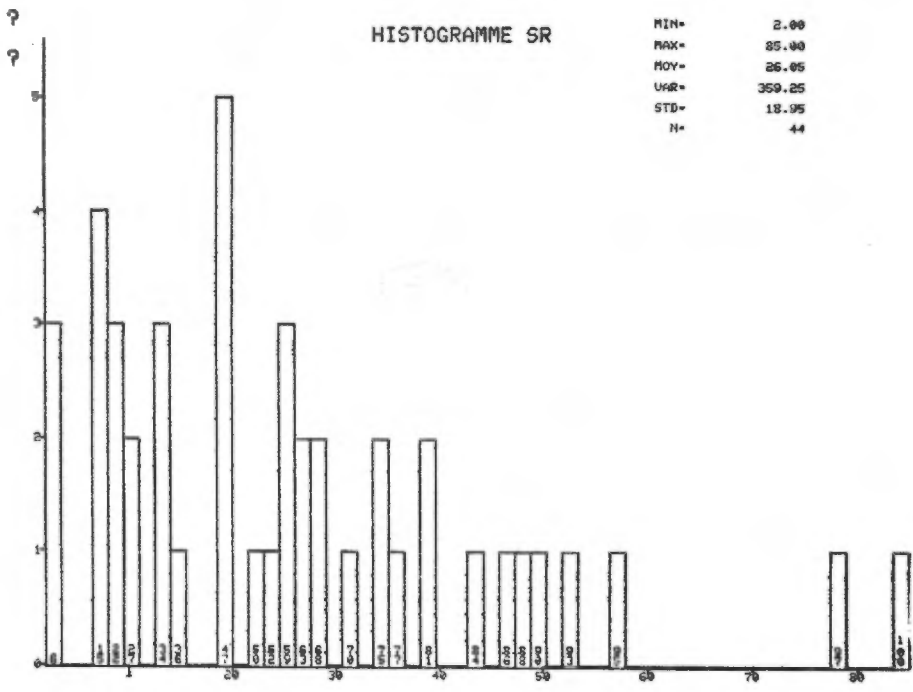
| | |
|-------|---|
| 0 - 1 | . |
| 2 - 2 | ⊕ |
| 3 - 4 | • |
| 5 - 8 | ⊙ |



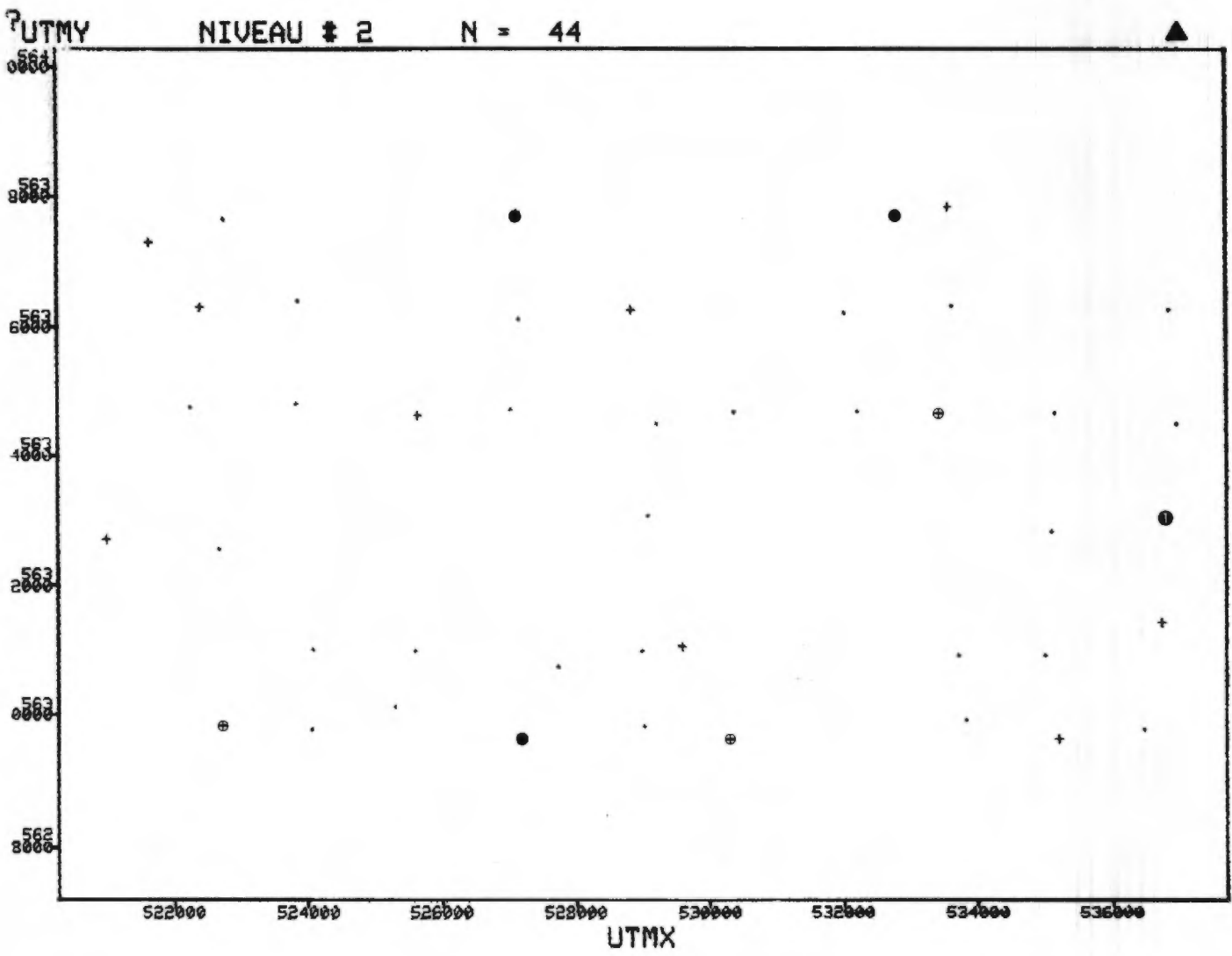


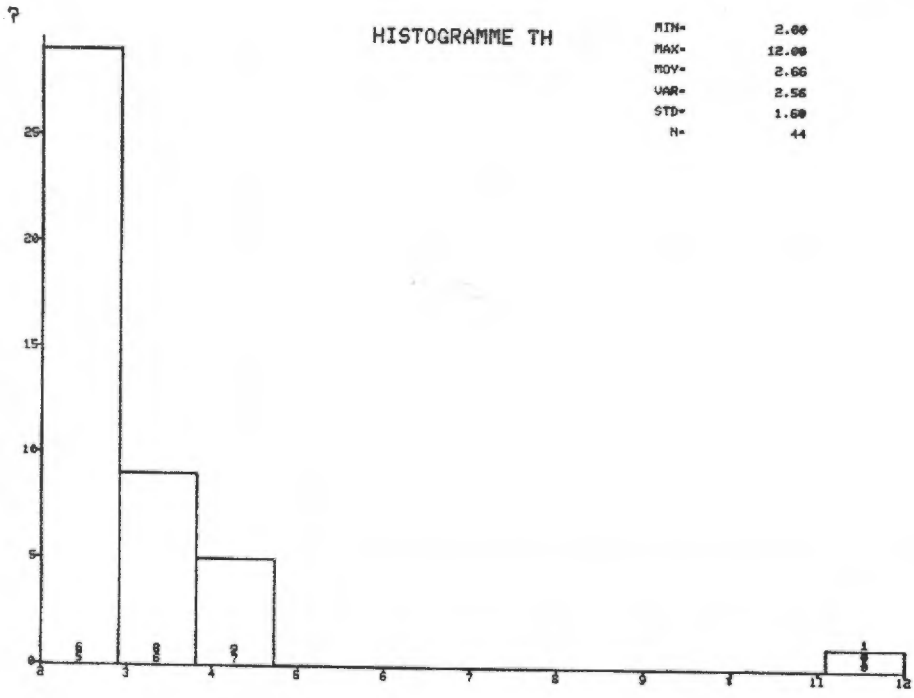
Sm
TENEURS (PPM)
 0 - 1 .
 2 - 2 ⊕
 3 - 3 ●
 4 - 6 ⊙





Sr
TENEURS (PPM)
 0 - 27 ·
 28 - 43 +
 44 - 51 ⊕
 52 - 78 ●
 79 - 156 ⊙

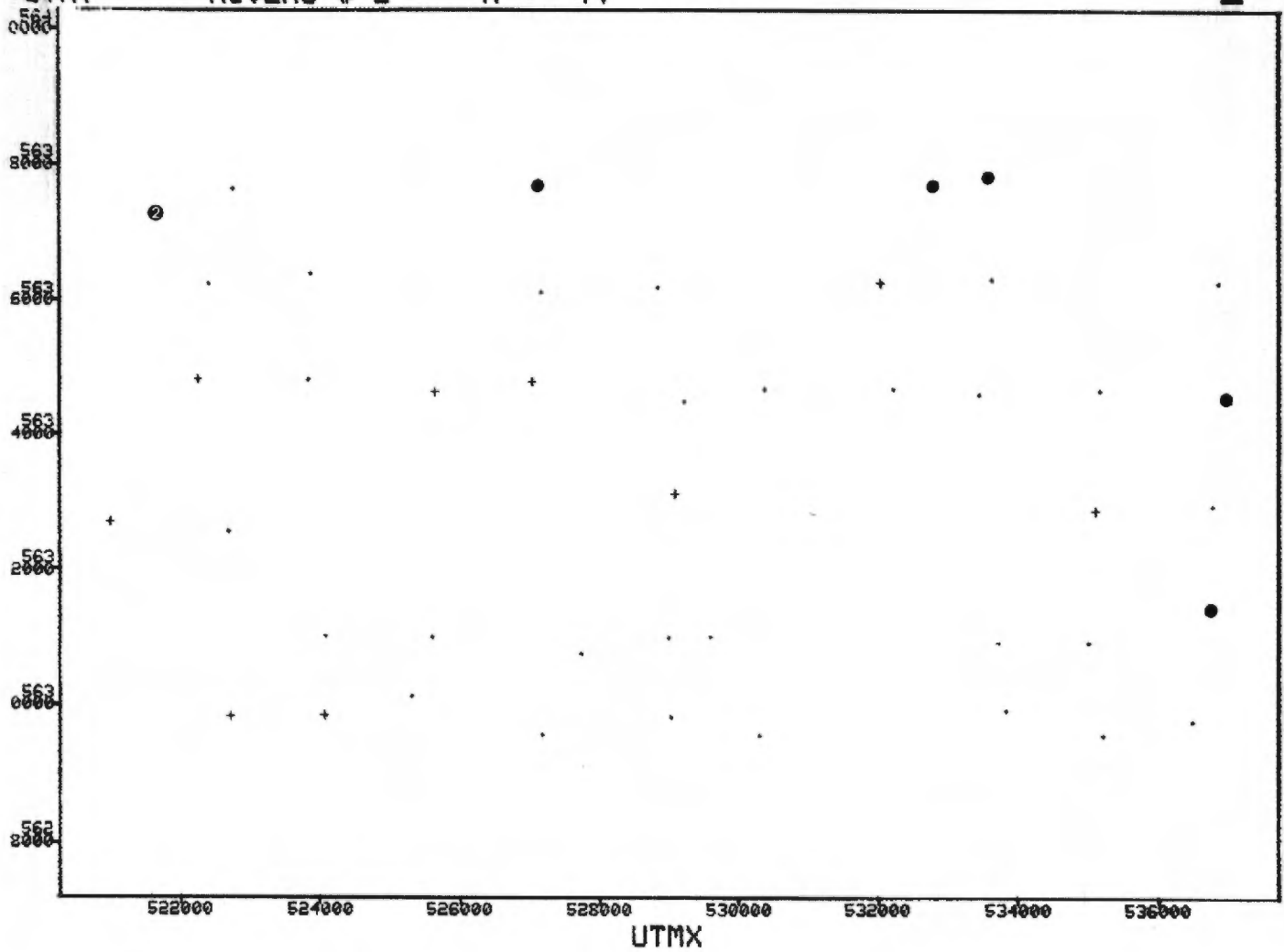


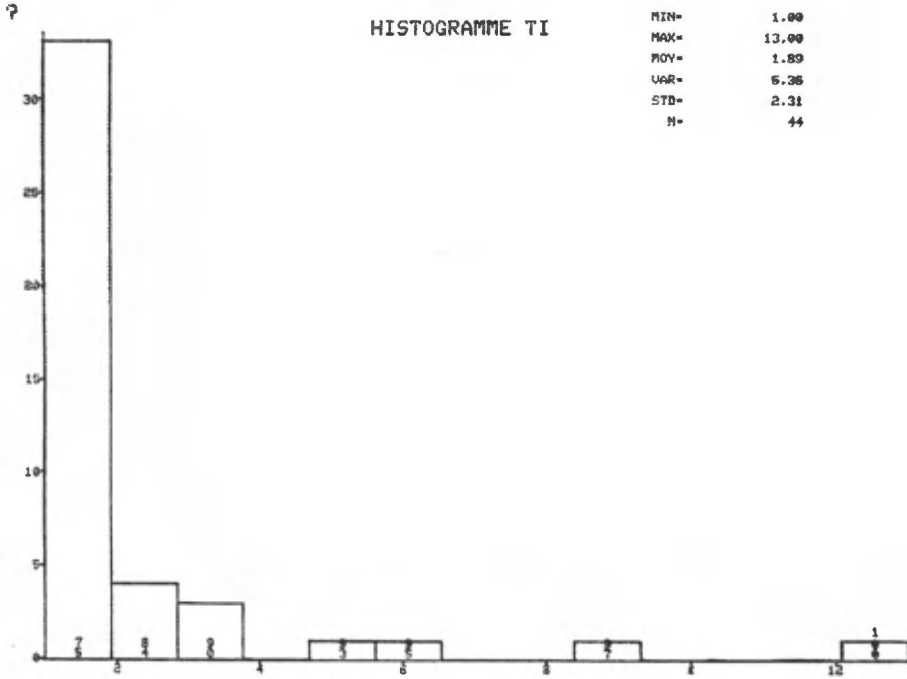


Th
TENEURS (PPM)

- 0 - 2 ·
- 3 - 3 +
- 4 - 4 ●
- 5 - 8 ⊙
- 9 - 16 ⊚

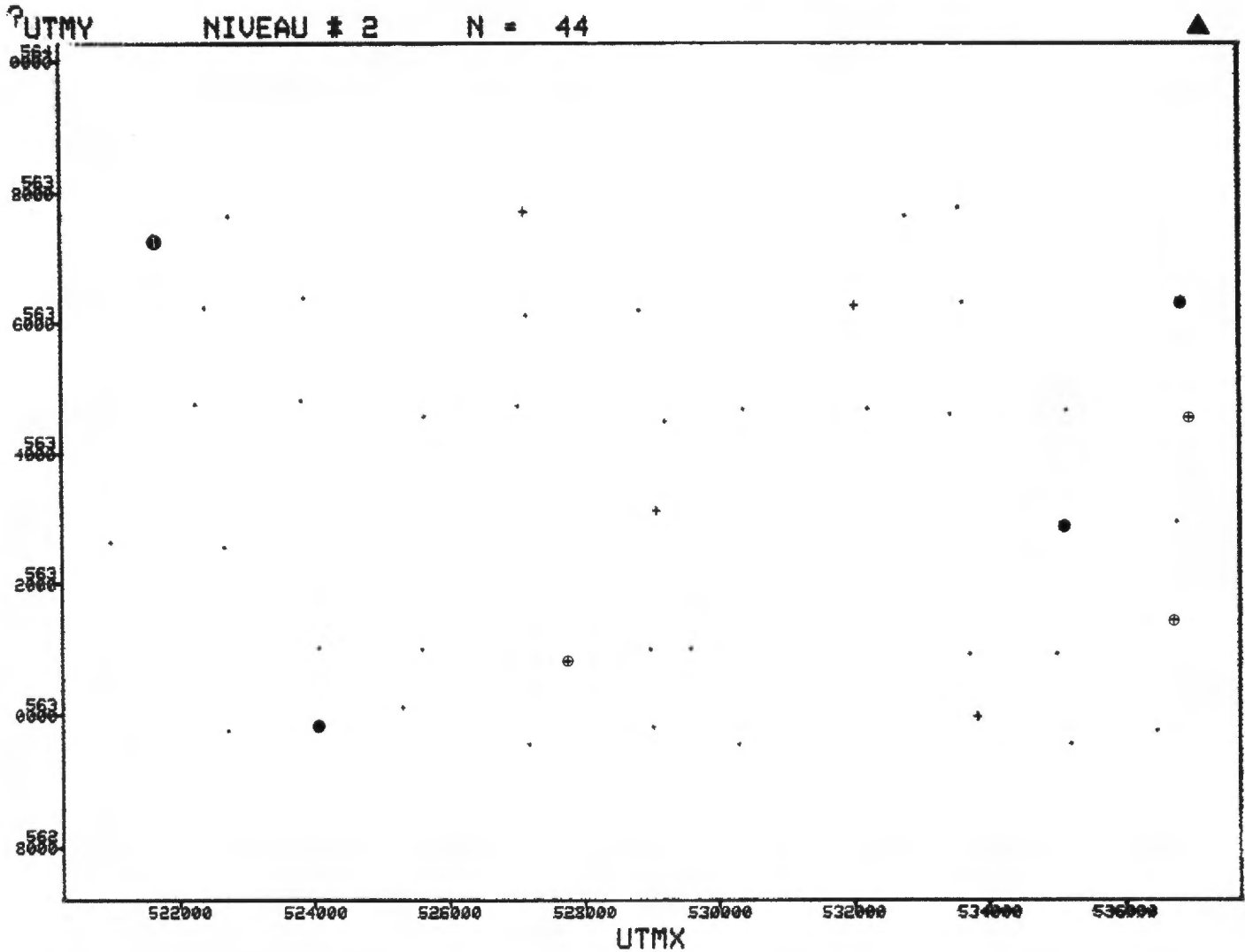
?UTMY NIVEAU # 2 N = 44

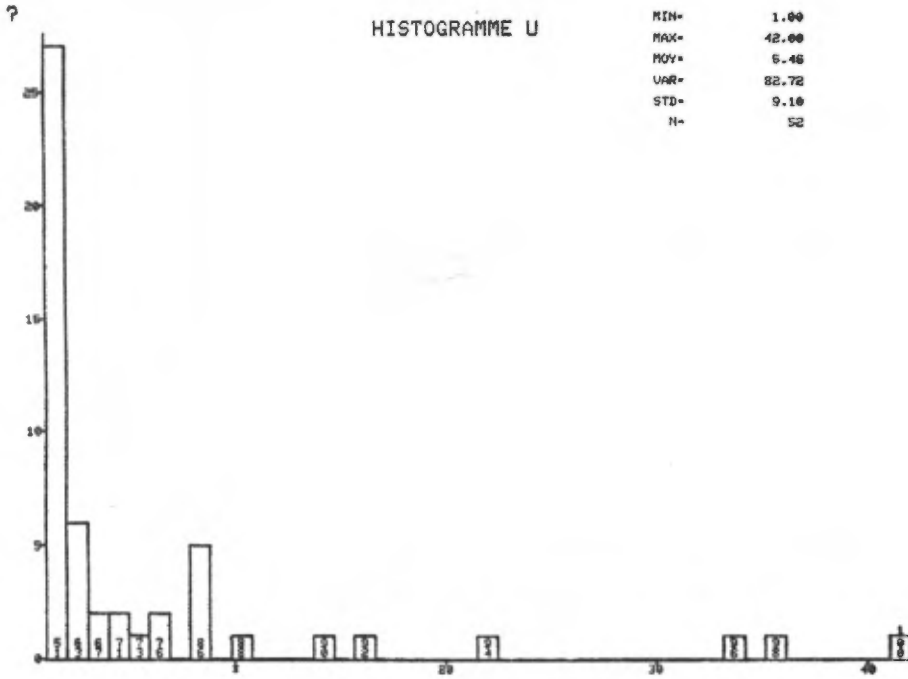




Ti
TENEURS (CCT)

| | |
|---------|---|
| 0 - 1 | · |
| 2 - 2 | + |
| 3 - 4 | ⊕ |
| 5 - 9 | ● |
| 10 - 18 | ⦿ |

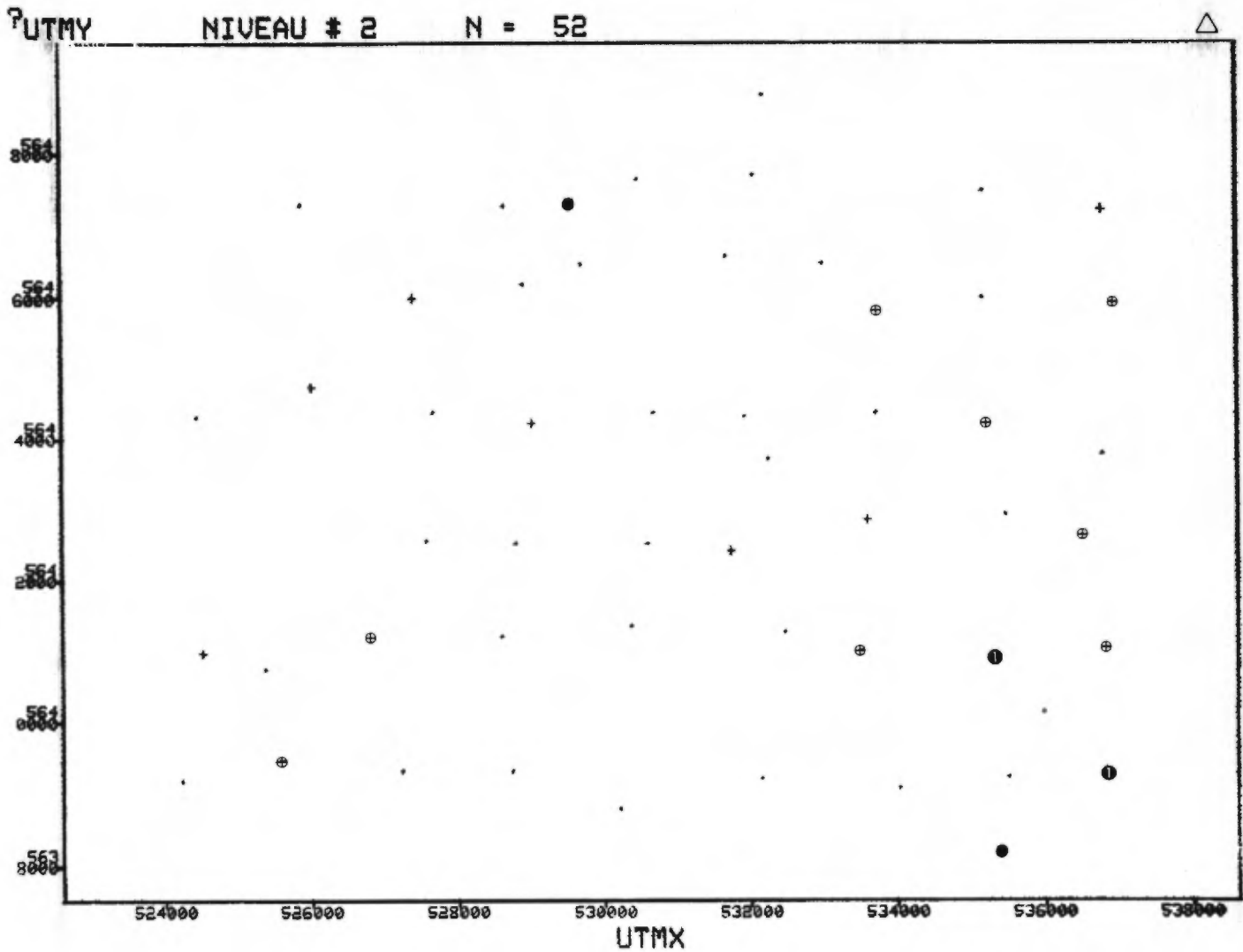


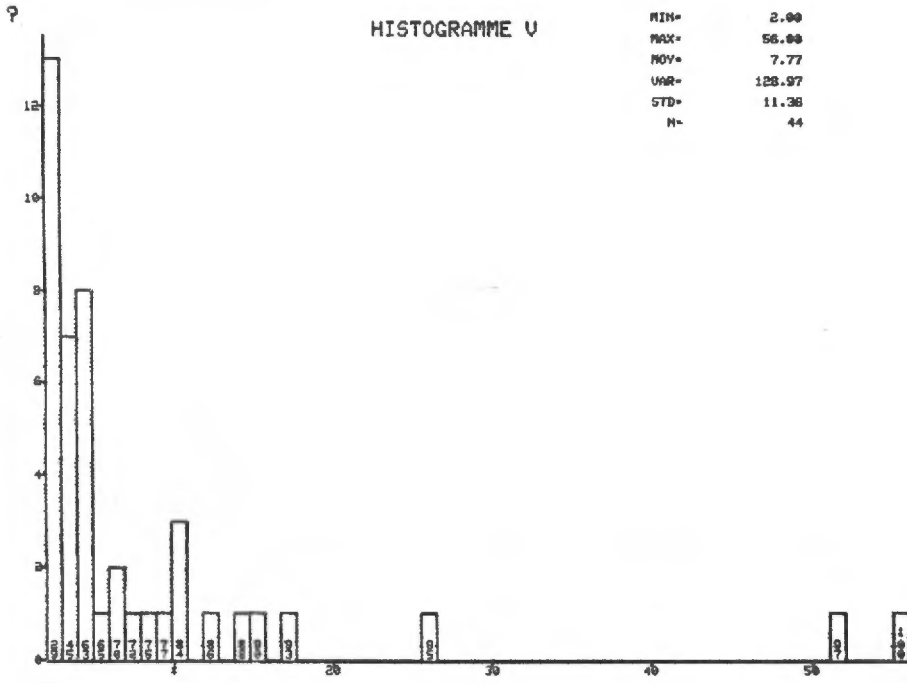


U

TENEURS (DPM)

| | |
|---------|---|
| 0 - 2 | . |
| 3 - 7 | + |
| 8 - 16 | ⊕ |
| 17 - 35 | ● |
| 36 - 70 | ⦿ |





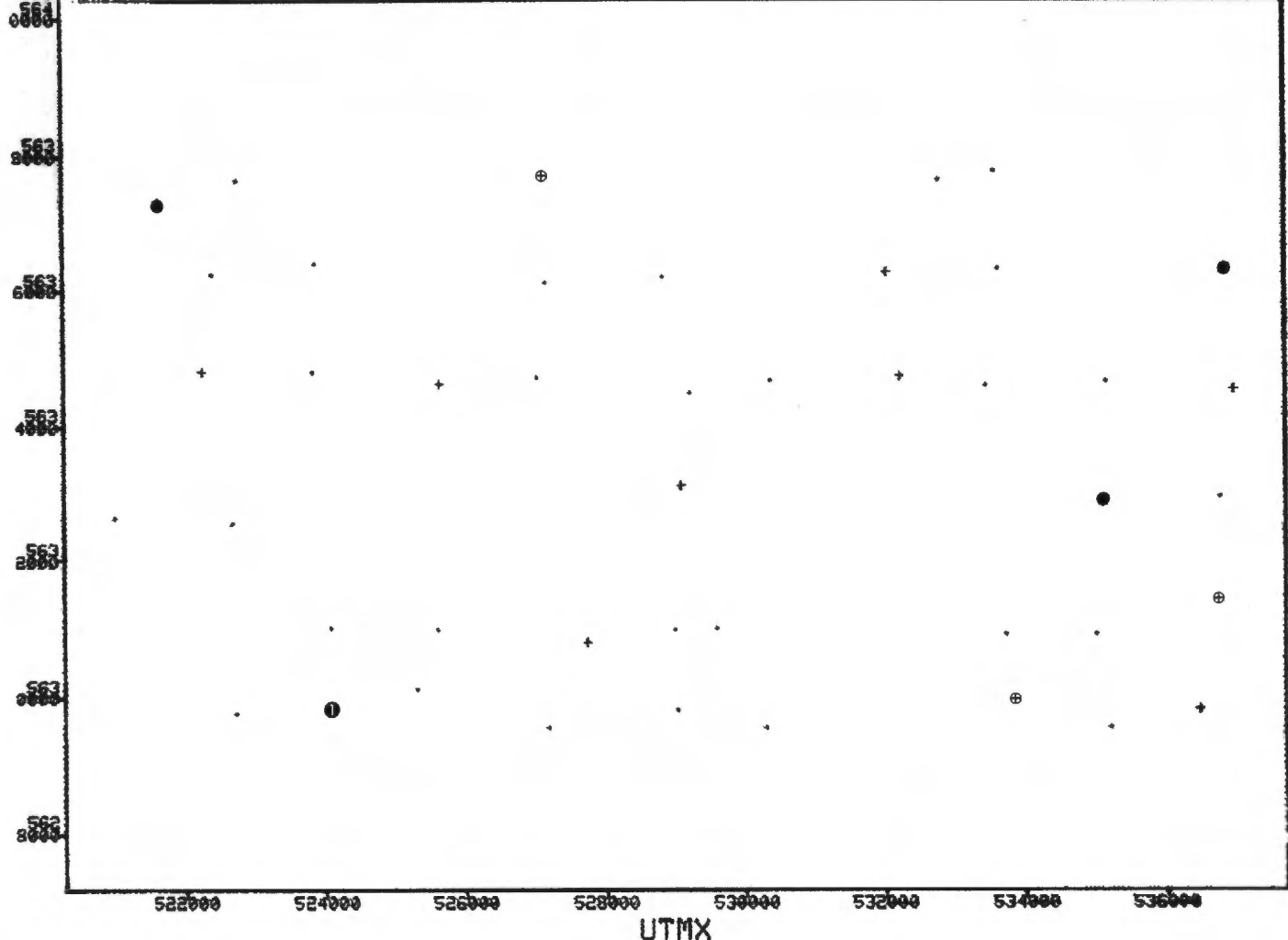
MIN* 2.00
 MAX* 56.00
 MOY* 7.77
 VAR* 128.97
 STD* 11.38
 N* 44

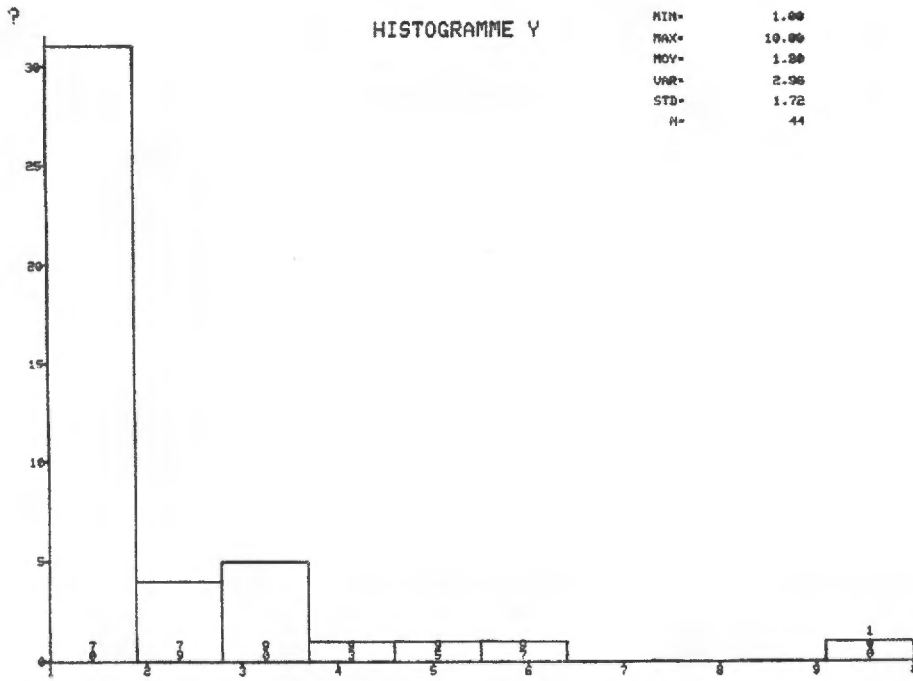
V

TENEURS (PPM)

| | |
|----------|---|
| 0 - 5 | . |
| 6 - 10 | + |
| 11 - 16 | ⊕ |
| 17 - 52 | • |
| 53 - 104 | ● |

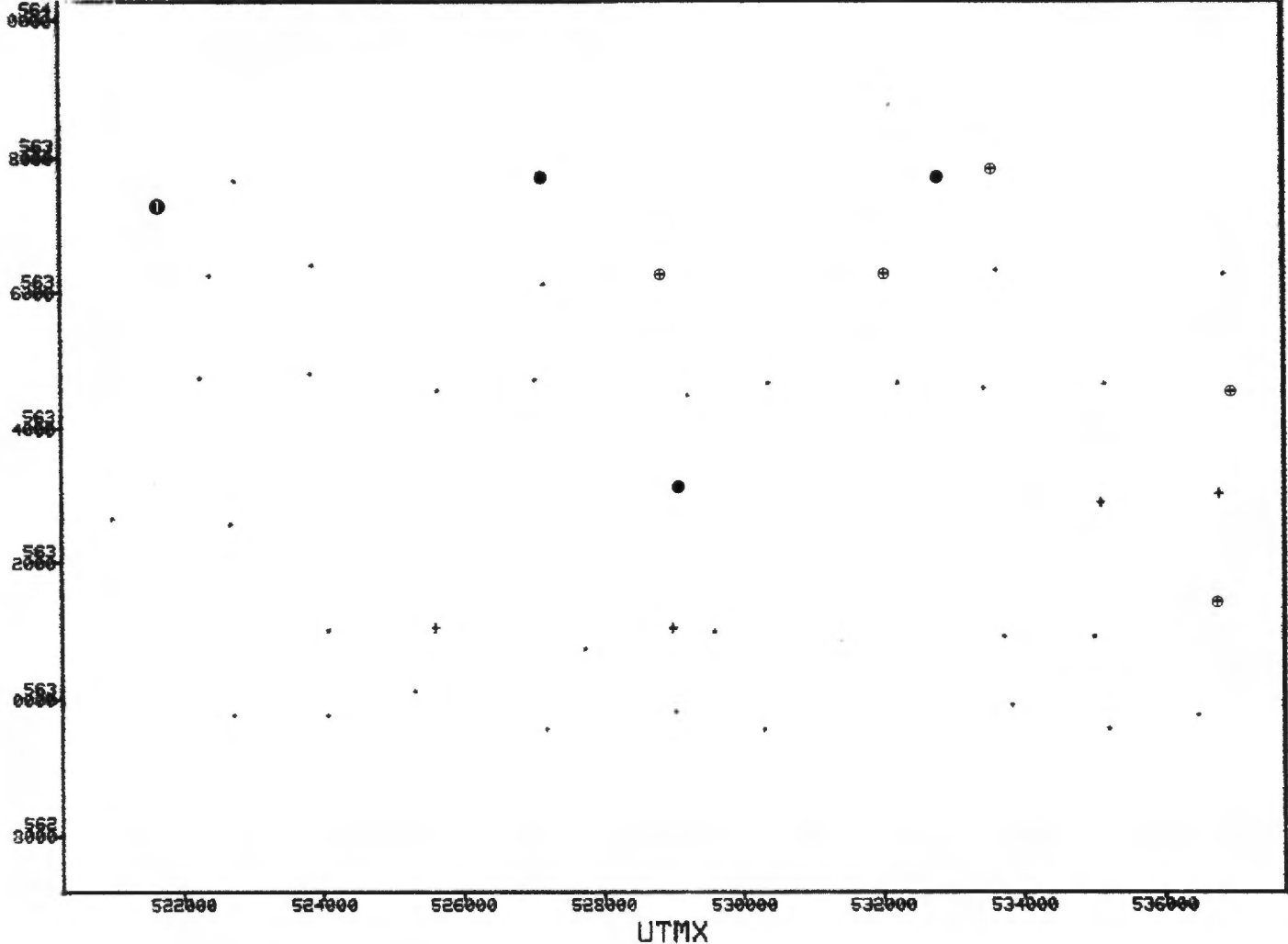
UTMY NIVEAU # 2 N = 44

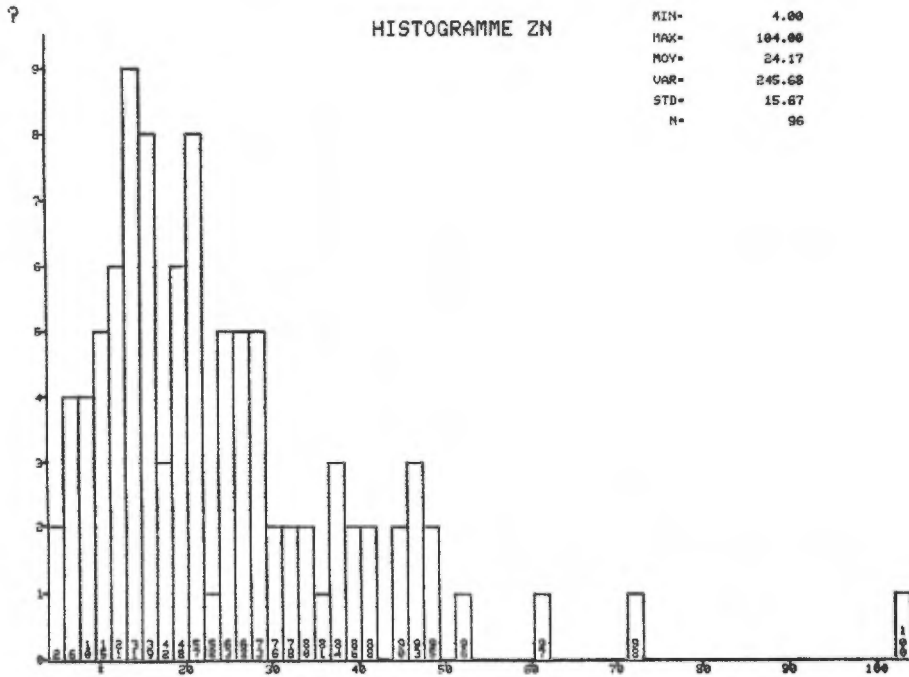




Y
TENEURS (PPM)
 0 - 1 .
 2 - 2 +
 3 - 3 ⊕
 4 - 6 ●
 7 - 12 ⊙

UTMY NIVEAU # 2 N = 44





Zn
TENEURS (PPM)

- 0 - 26 ·
- 27 - 38 +
- 39 - 47 ⊕
- 48 - 62 ●
- 63 - 124 ⊙

UTMY NIVEAU # 1 N = 96

