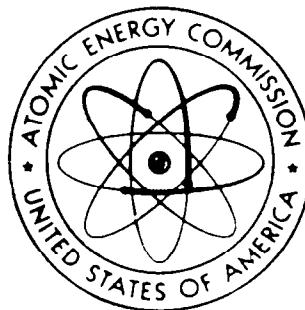


NVO-140

VOLUME II

# **ENEWETAK RADIOLOGICAL SURVEY**



OCTOBER 1973

**UNITED STATES ATOMIC ENERGY COMMISSION  
NEVADA OPERATIONS OFFICE  
LAS VEGAS, NEVADA**

## Appendix II - Survey Results by Island

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## INTRODUCTION

This appendix is a compilation of radiological survey results for each of the islands in Enewetak Atoll. The information for each island includes a color aerial photograph, a series of photographs overprinted with survey data, and a set of analytical data. It should be noted that several islands (i.e., IRENE, YVONNE, ELMER, FRED, and IRWIN) have been subdivided into sections (e.g., IRENE A and IRENE B) because of their relatively large size. In addition, it should be pointed out that the sets of overprints are not necessarily the same for all islands. Thermoluminescent detectors (TLD's), for example, were not used on all islands. For ease of comparison and clarity, the same data parameter for each island is overprinted on the same color of photograph.

For a discussion of the techniques used in collecting the data presented on the photographic overprints, the reader is referred to the appropriate section in Vol. I of this document.

A typical set of survey results is outlined below for ALICE, together with the page and figure designation scheme used.

### ALICE

Fig.  
No.

|   |                 |
|---|-----------------|
| Current condition . . . . .                           |                 |
| a. Color photograph . . . . .                         | B. 1.1a         |
| b. 0-3 MeV EG&G isopleth . . . . .                    | B. 1.1b         |
| c. 0-300 keV EG&G isopleth . . . . .                  | B. 1.1c         |
| d. Ground measurements with Baird Atomic . . . . .    | B. 1.1d         |
| f. Soil-sampling locations . . . . .                  | B. 1.1f         |
| g. Vegetation sampling locations . . . . .            | B. 1.1g         |
| h. TLD locations . . . . .                            | B. 1.1h         |
| i. <sup>239</sup> Pu soil content isopleths . . . . . | B. 1.1i         |
| j. <sup>90</sup> Sr soil content isopleths . . . . .  | B. 1.1j         |
| k. <sup>137</sup> Cs EG&G isopleths . . . . .         | B. 1.1k         |
| l. <sup>137</sup> Cs soil data . . . . .              | B. 1.1l         |
| m. <sup>60</sup> Co EG&G isopleths . . . . .          | B. 1.1m         |
| n. <sup>60</sup> Co soil data . . . . .               | B. 1.1n         |
| o. Animal sampling location . . . . .                 | B. 1.1o         |
| Analytical data for soils . . . . .                   |                 |
| a. through m. Soil profile data plots . . . . .       | B. 1.2a         |
|   | through B. 1.2m |



At the end of Volume III, after the section on LEROY, is a section containing microfiche transparencies reproducing all of the analytical data obtained in this survey. Instructions on the use of microfiche film are also included in that section.

Table B.1. Cross-reference list of island names.

| Site   | Native names from<br>U. S. Hydrographic Office charts |              | Native names<br>from<br>Dr. Jack A.<br>Tobin |
|--------|---|--------------|--|
|        | 1946  | 1968         |  |
| ALICE  | Bogallua  | Bogallua     | BOKOLUO                                      |
| BELLE  | Bogombogo   | Bogombogo    | BOKOMBAKO                                    |
| CLARA  | Ruchi   | Eybbiyae     | _a   |
| DAISY  | _a  | Lidilbut     | LOUJ   |
| EDNA   | _a  | _a           | _a   |
| HELEN  | Bogairikk   | Bogeirik     | BOKAIDRIK                                    |
| IRENE  | Bogon   | Bogon        | BOKEN  |
| JANET  | Engebi  | Engebi       | ENJEBI                                       |
| KATE   | Muzinbaarikku   | Mujinkarikku | MIJIKADREK                                   |
| LUCY   | Kirinian  | Billee       | KIDRINEN                                     |
| PERCY  | _a  | _a           | _a   |
| MARY   | Bokonaarappu  | Bokonarppu   | BOKENELAB                                    |
| NANCY  | Yeiri   | Yeiri        | ELLE   |
| OLIVE  | Aitsu   | Aitsu        | AEJ  |
| PEARL  | Rujoru  | Rujiyoru     | LUJOR  |
| RUBY   | Eberiru   | Eberiru      | ELELERON                                     |
| SALLY  | Aomon   | Aomon        | AOMON  |
| TILDA  | Biijiri   | Biijiri      | BIKILE                                       |
| URSULA | Rojoa   | Rojoa        | LOJWA  |
| VERA   | Aaraanbiru  | Arambiru     | ALEMBEL                                      |
| WILMA  | Piiraai   | Piirai       | BILLAE                                       |
| YVONNE | Runit   | Runit        | RUNIT  |
| SAM    | _a  | _a           | _a   |
| TOM    | _a  | _a           | ANEROWIJ                                     |
| URIAH  | _a  | _a           | _a   |
| VAN    | _a  | _a           | _a   |
| ALVIN  | Chinieero   | _a           | JINEDROL                                     |
| BRUCE  | Aniyaanii   | Japtan       | ANANIJ                                       |
| CLYDE  | Chinimi   | Chinimi      | JINIMI                                       |
| DAVID  | Japtan  | Muti         | JAPTAN                                       |
| ELMER  | Parry   | Parry        | MEDREN                                       |
| WALT   | _a  | _a           | _a   |
| FRED   | Eniwetok  | Eniwetok     | ENEWETAK                                     |



Table B.2 (Continued)

| Island                | Altitude flown,<br>ft | Scale      |
|-----------------------|-----------------------|------------|
| TOM                   | 2000                  | 1 cm = 8 m |
| URIAH                 | 2000                  | 17         |
| VAN                   | 4000                  | 20         |
| ALVIN                 | 2000                  | 15         |
| BRUCE                 | 5000                  | 42         |
| CLYDE                 | 2000                  | 12         |
| DAVID                 | 5000                  | 44         |
| REX                   | 2000                  | 18         |
| ELMER A, B, C, D      | 5000                  | 47         |
| WALT                  | 2000                  | 15         |
| FRED A, B, C, D, E, F | 5000                  | 48         |
| GLENN                 | 9000                  | 77         |
| HENRY                 | 6000                  | 55         |
| IRWIN A, B            | 3000                  | 29         |
| JAMES                 | 3000                  | 16         |
| KEITH                 | 3000                  | 26         |
| LEROY                 | 3000                  | 20         |
| YVONNE E, F           | 10000                 | 95         |

Table B.3. Contour map key for use with the EG&G aerial radiological survey figures in Appendix II.<sup>a</sup>

| Sym-<br>bol | <sup>241</sup> Am concentration <sup>b</sup><br>(assumed 10-cm<br>relaxation depth) |   | <sup>137</sup> Cs <sup>c</sup>  |                            | <sup>60</sup> Co <sup>d</sup>   |                            | Gross<br>count<br>exposure<br>rate, <sup>e</sup><br>μR/hr |
|-------------|---|---|---|----------------------------|---|----------------------------|---|
|             | Total<br>μCi/m <sup>2</sup>   | averaged<br>over top<br>10 cm,<br>μCi/g | Concen-<br>tration<br>±50% for 1 cm<br>(relaxation<br>depth < 10 cm),<br>μCi/m <sup>2</sup> | Exposure<br>rate,<br>μR/hr | Concen-<br>tration<br>±50% for 1 cm<br>(relaxation<br>depth < 10 cm),<br>μCi/m <sup>2</sup> | Exposure<br>rate,<br>μR/hr |   |
| A           |   |   | 0-0.1   | 0-0.34                     |   |                            |   |
| A'          |   |   | 0.1-0.2   | 0.34-0.68                  | 0-0.04  | 0-0.59                     |   |
| A           | 0-21  | 0-9                                     | 0.2-0.4   | 0.68-1.36                  | 0.04-0.08   | 0.59-1.14                  | 0-1.0   |
| B           | 21-30   | 9-13                                    | 0.4-0.6   | 1.36-2.0                   | 0.08-0.12   | 1.14-1.7                   | 1.0-1.5   |
| C           | 30-45   | 13-19                                   | 0.6-0.8   | 2.0-2.7                    | 0.12-0.16   | 1.70-2.3                   | 1.5-2.0   |
| D           | 45-66   | 19-28                                   | 0.8-1.6   | 2.7-5.4                    | 0.16-0.32   | 2.3-4.6                    | 2.0-4   |
| E           | 66-100  | 28-42                                   | 1.6-3.1   | 5.4-11                     | 0.32-0.64   | 4.6-9.9                    | 4-8   |
| F           | 100-145   | 42-61                                   | 3.1-6.2   | 11-22                      | 0.64-1.3  | 9.2-18                     | 8-16  |
| G           | 145-210   | 61-89                                   | 6.2-12  | 22-44                      | 1.3-2.5   | 18-36                      | 16-33   |
| H           | 210-300   | 89-130                                  | 12-25   | 44-88                      | 2.5-5.0   | 36-72                      | 33-66   |
| I           | 300-450   | 130-190                                 | 25-50   | 88-170                     | 5-10  | 72-140                     | 66-130  |
| J           |   |   | 50-100  | 170-340                    | 10-20   | 140-290                    | 130-260   |
| K           |   |   | 100-200   | 340-700                    | 20-40   | 290-580                    | 260-520   |
| L           |   |   | 200-400   | 700-1400                   | 40-80   | 580-1200                   | 520-1050  |

<sup>a</sup>See chapter on the EG&G serial radiological survey in Vol. 1.<sup>b</sup>Shown in "c" figures in this Appendix.<sup>c</sup>Shown in "k" figures in this Appendix.<sup>d</sup>Shown in "m" figures in this Appendix.<sup>e</sup>Shown in "b" figures in this Appendix.

100 METERS



Fig. B.1. I.a.



3.1.1.b. Gross count

100 METERS

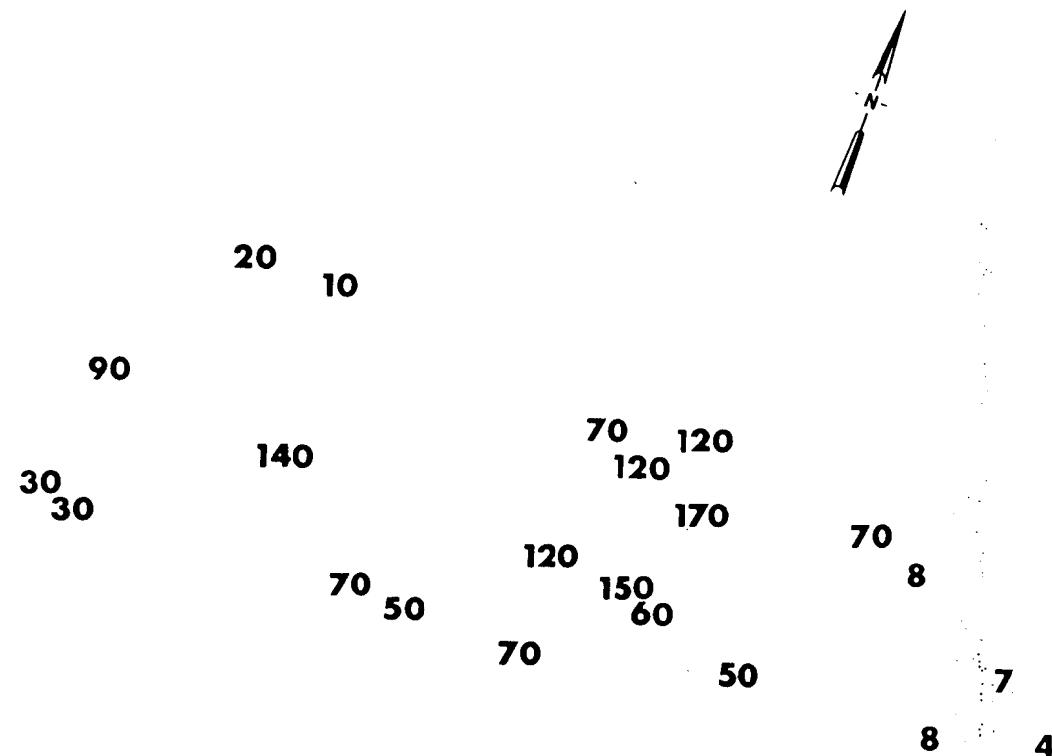
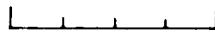


Fig. B.1.1.d. The gamma background exposure rate ( $\mu\text{R}/\text{hr}$ ) at 1 m above the ground, measured with a portable NaI scintillation counter.

100 METERS

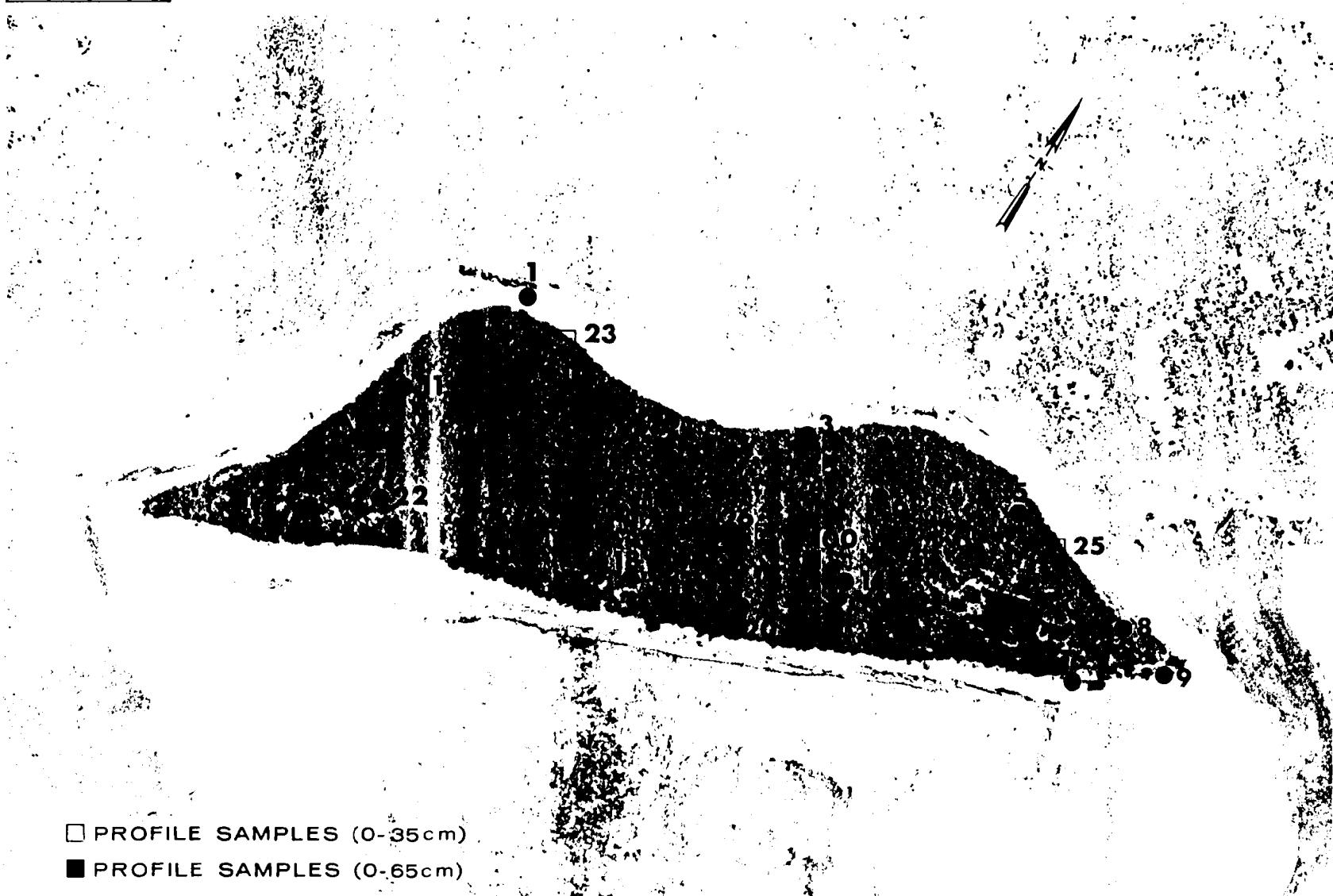


Fig. B.1.1.f. Soil-sample locations.

100 METERS

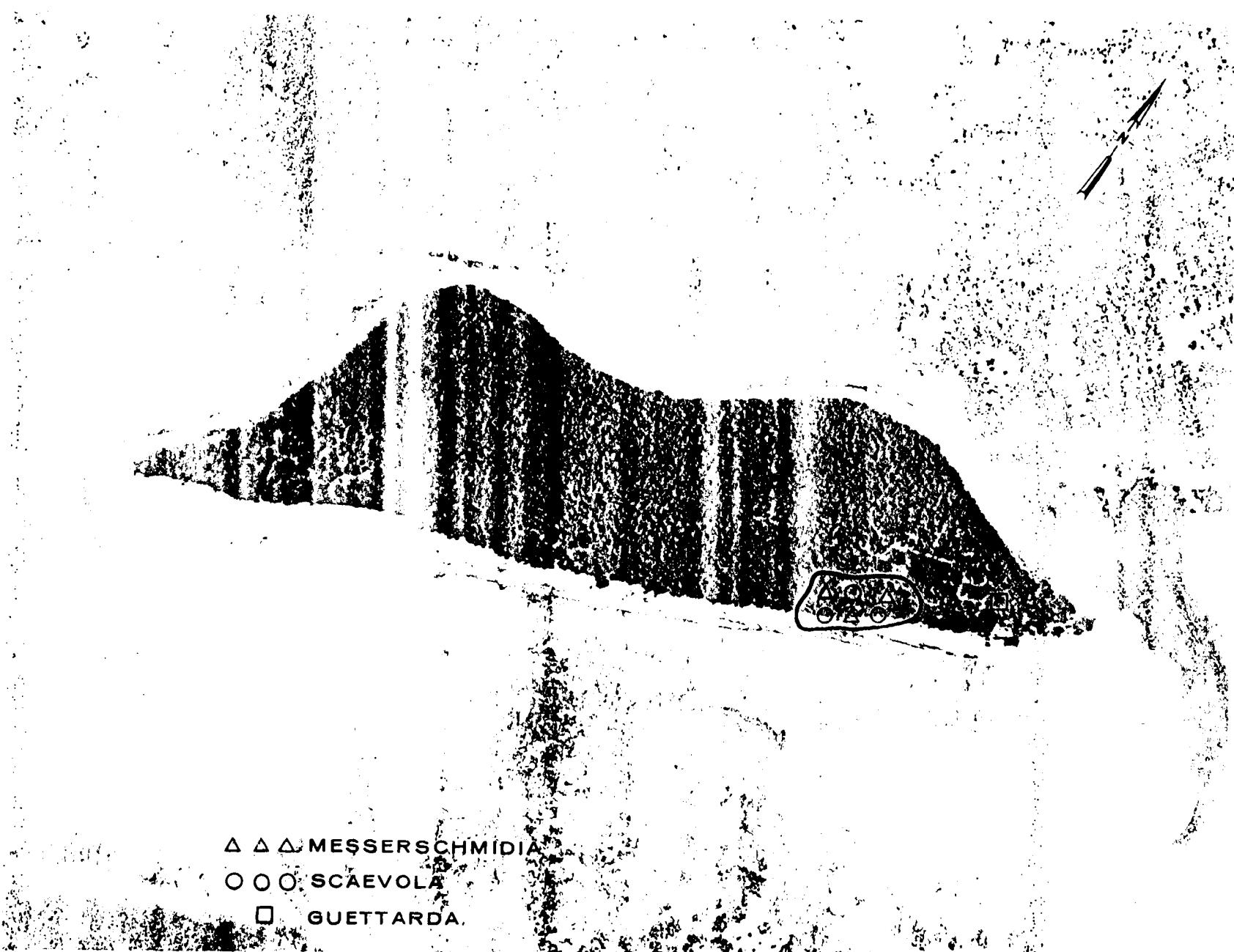


Fig. B.1.1.g. Vegetation sample locations.

100 METERS

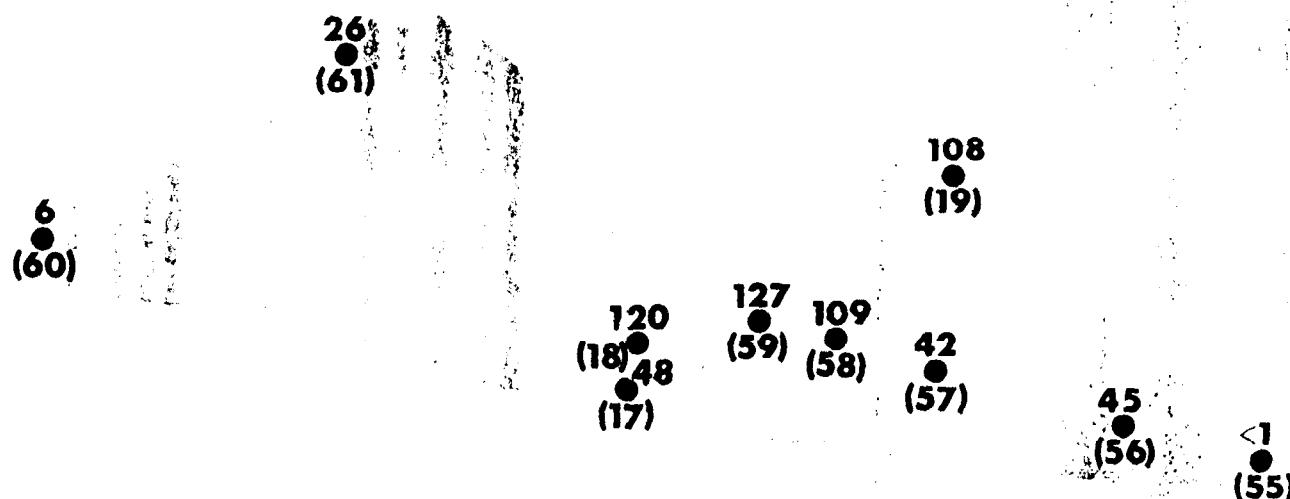
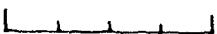


Fig. B.1.1.h. The gamma-ray exposure rates ( $\mu\text{R}/\text{hr}$ ) measured 1 m above the ground by the LiF thermoluminescent dosimeters (TLD). The numbers shown in parentheses denote the location identification numbers.

100 METERS

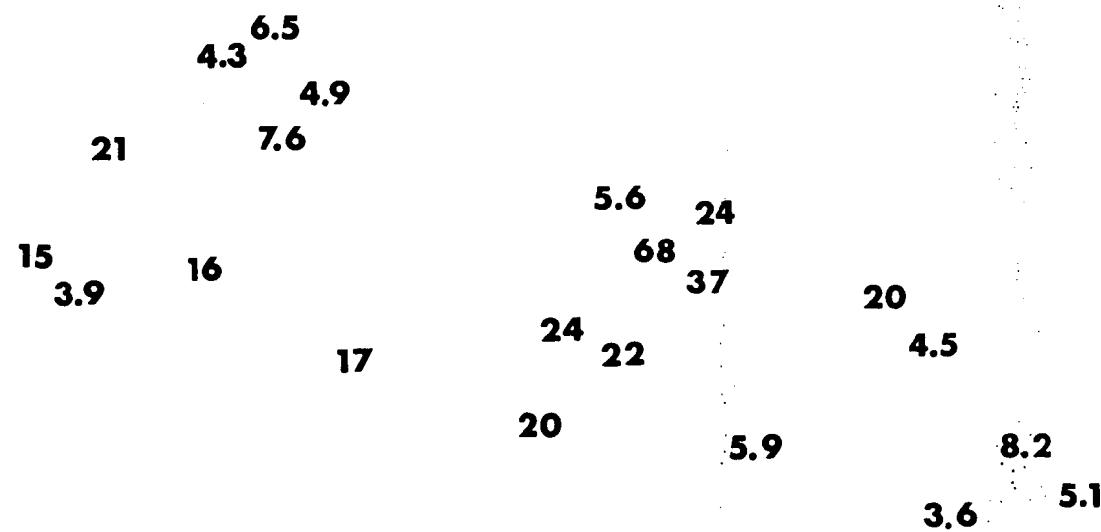


Fig. B.1.1.i. The average  $^{239}\text{Pu}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

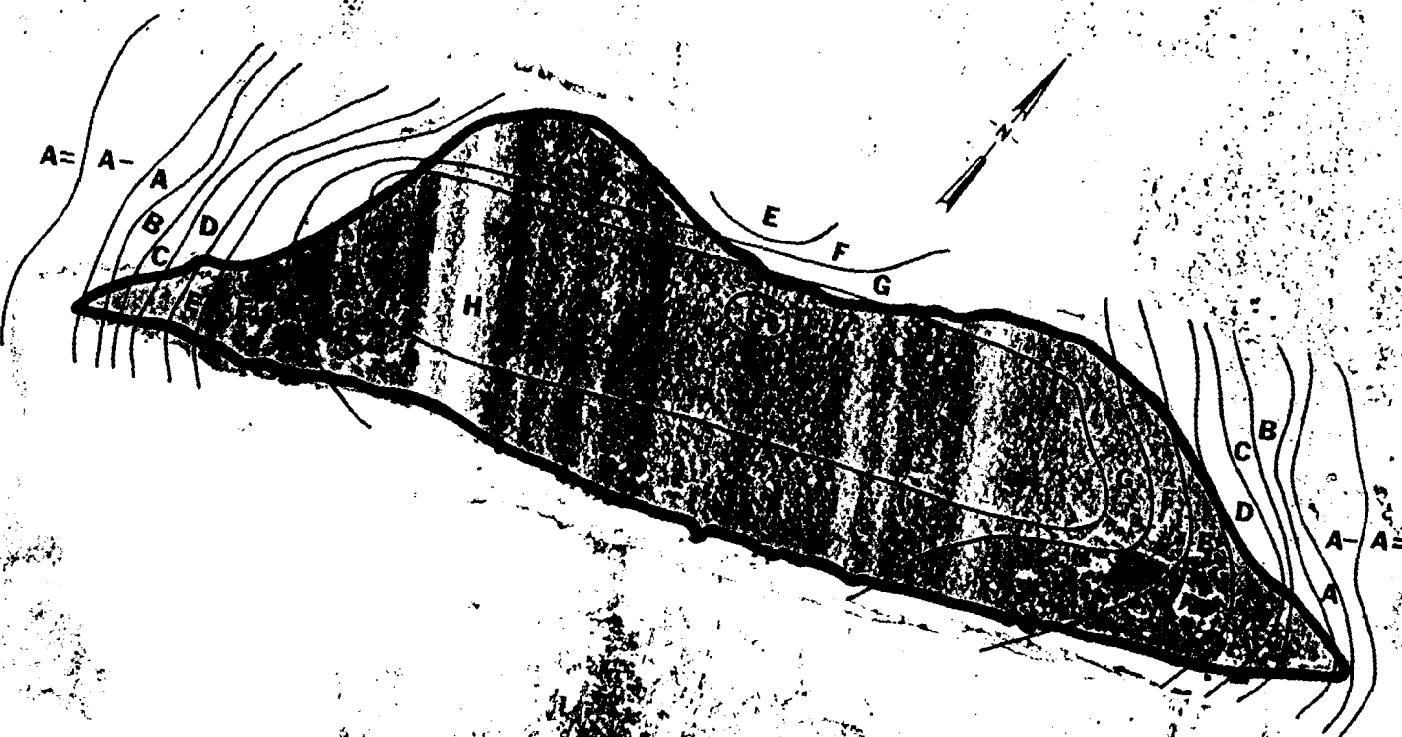


Fig. B.1.1.k. <sup>137</sup>Cs isoexposure and isoconcentration contours. (Refer to also)

100 METERS

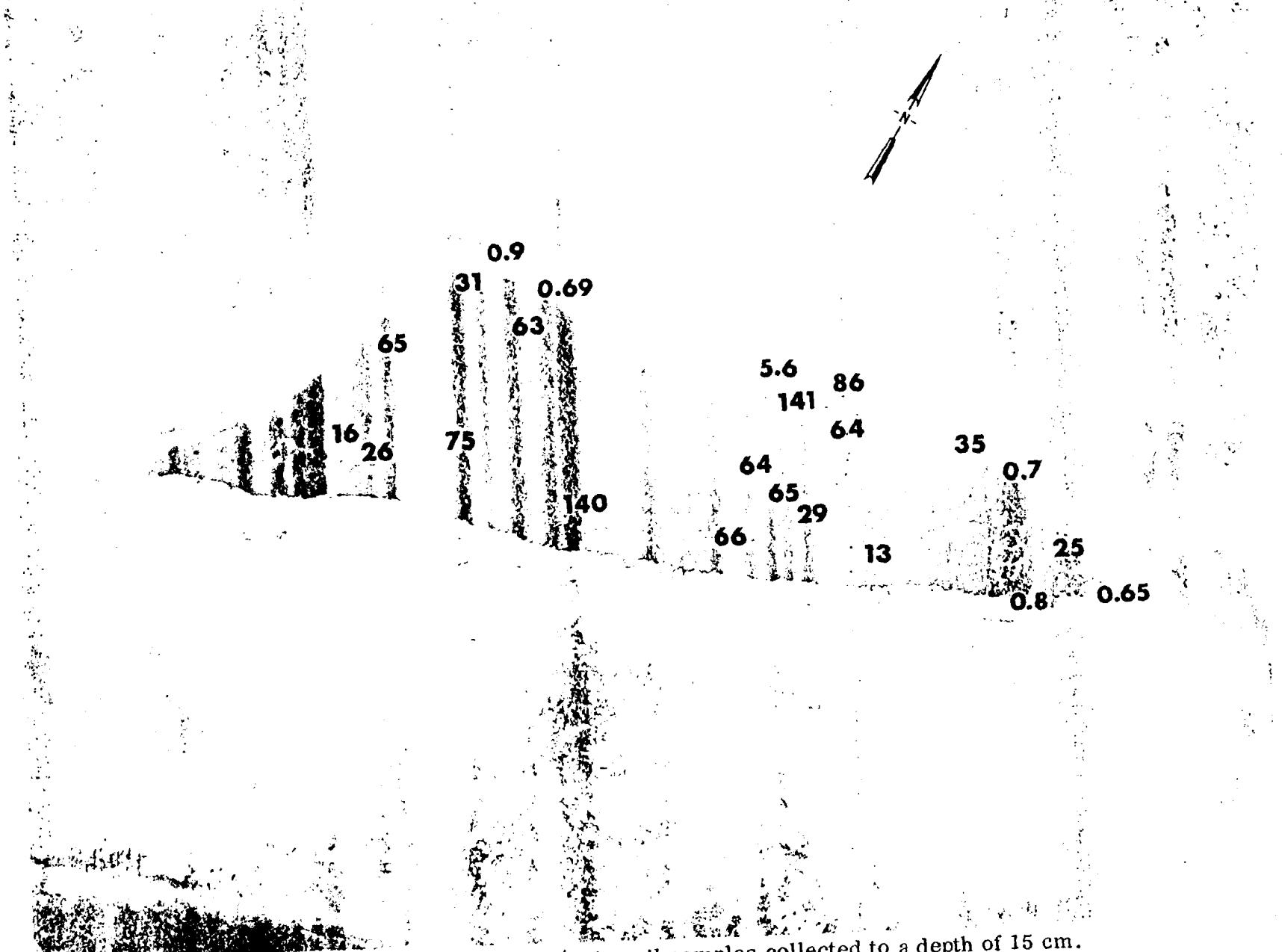
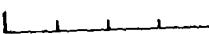


Fig. B.1.1.1. The average  $^{137}\text{Cs}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

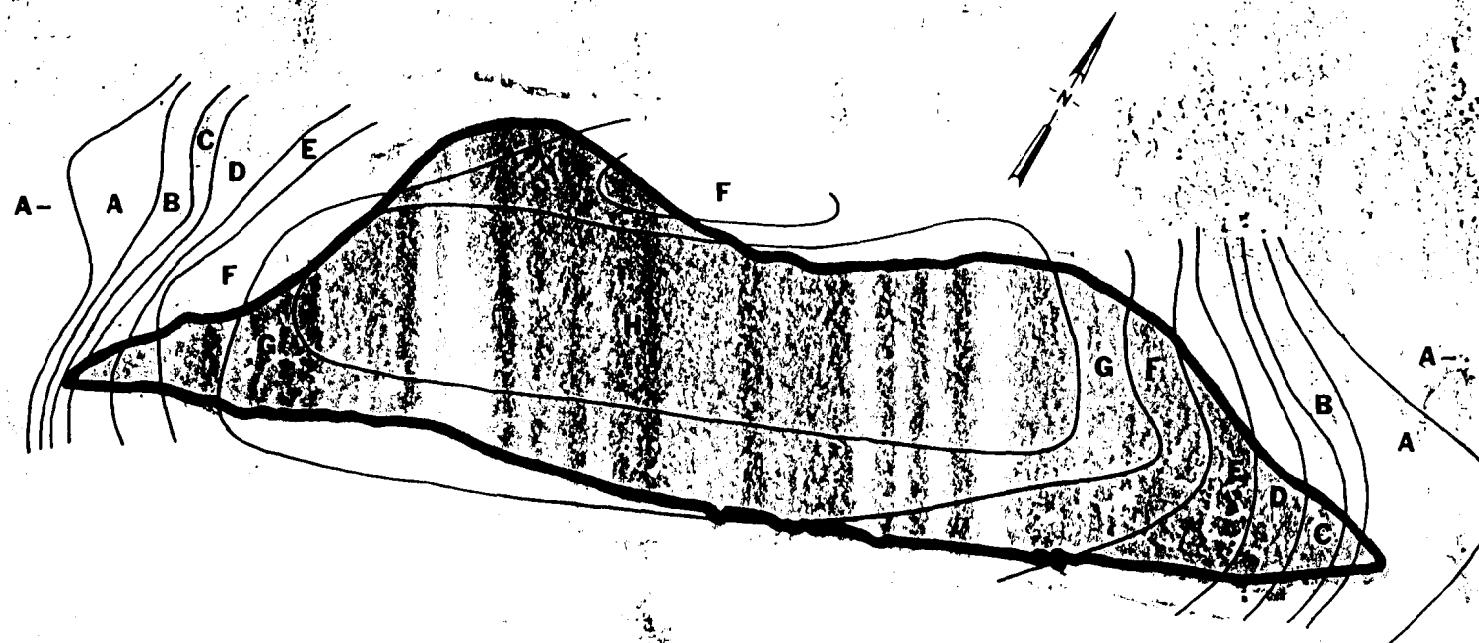


Fig. B.1.1.m.  $^{60}\text{Co}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

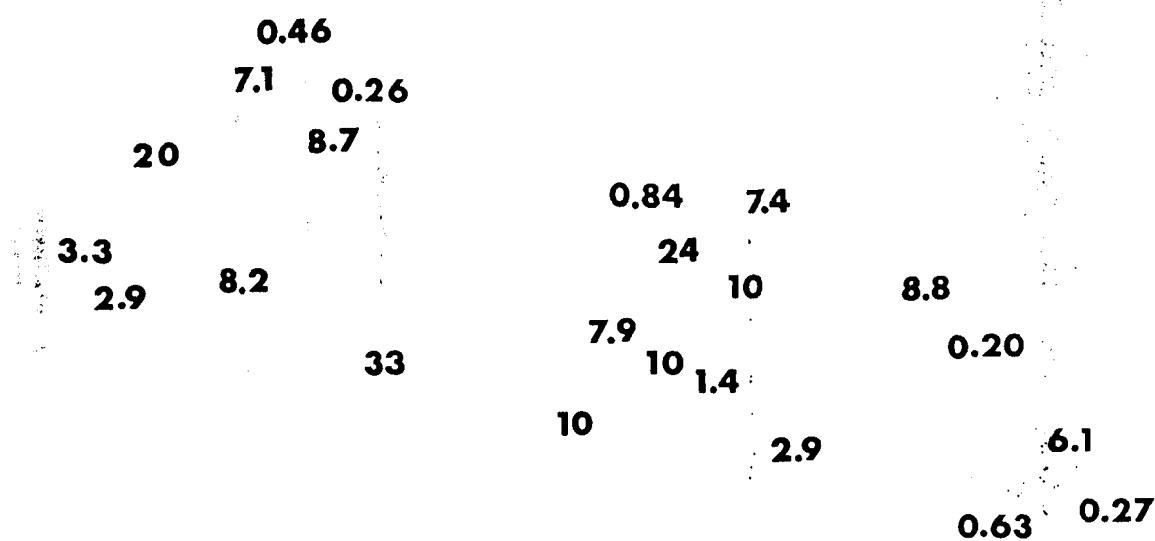
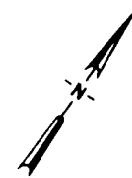


Fig. B.1.1.n. The average  $^{50}\text{Co}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS



ANOUS

Fig. B.1.1.o. Terrestrial animal sample locations.

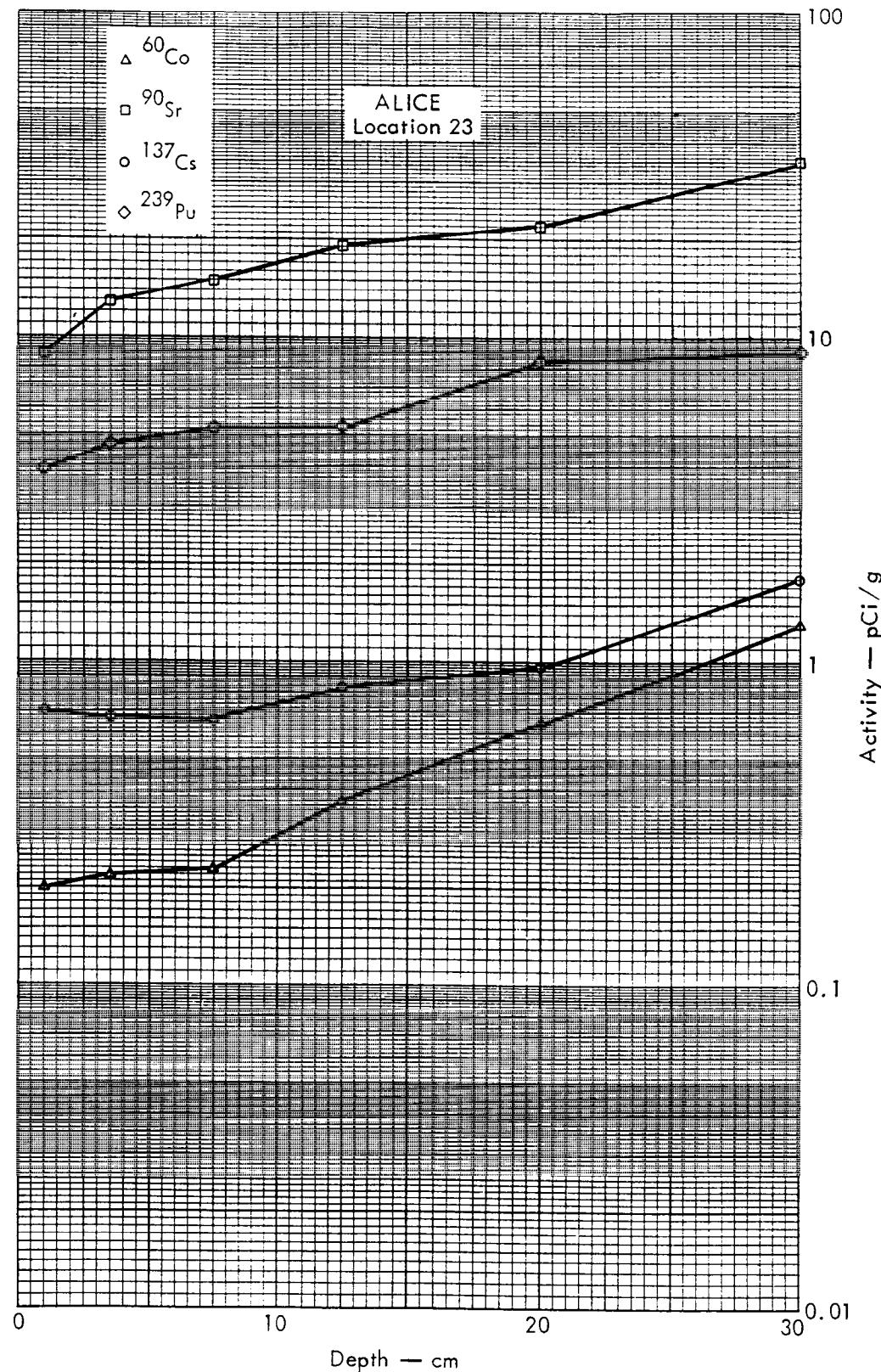


Fig. B. 1. 2a. Activities of selected radionuclides as a function of soil depth.

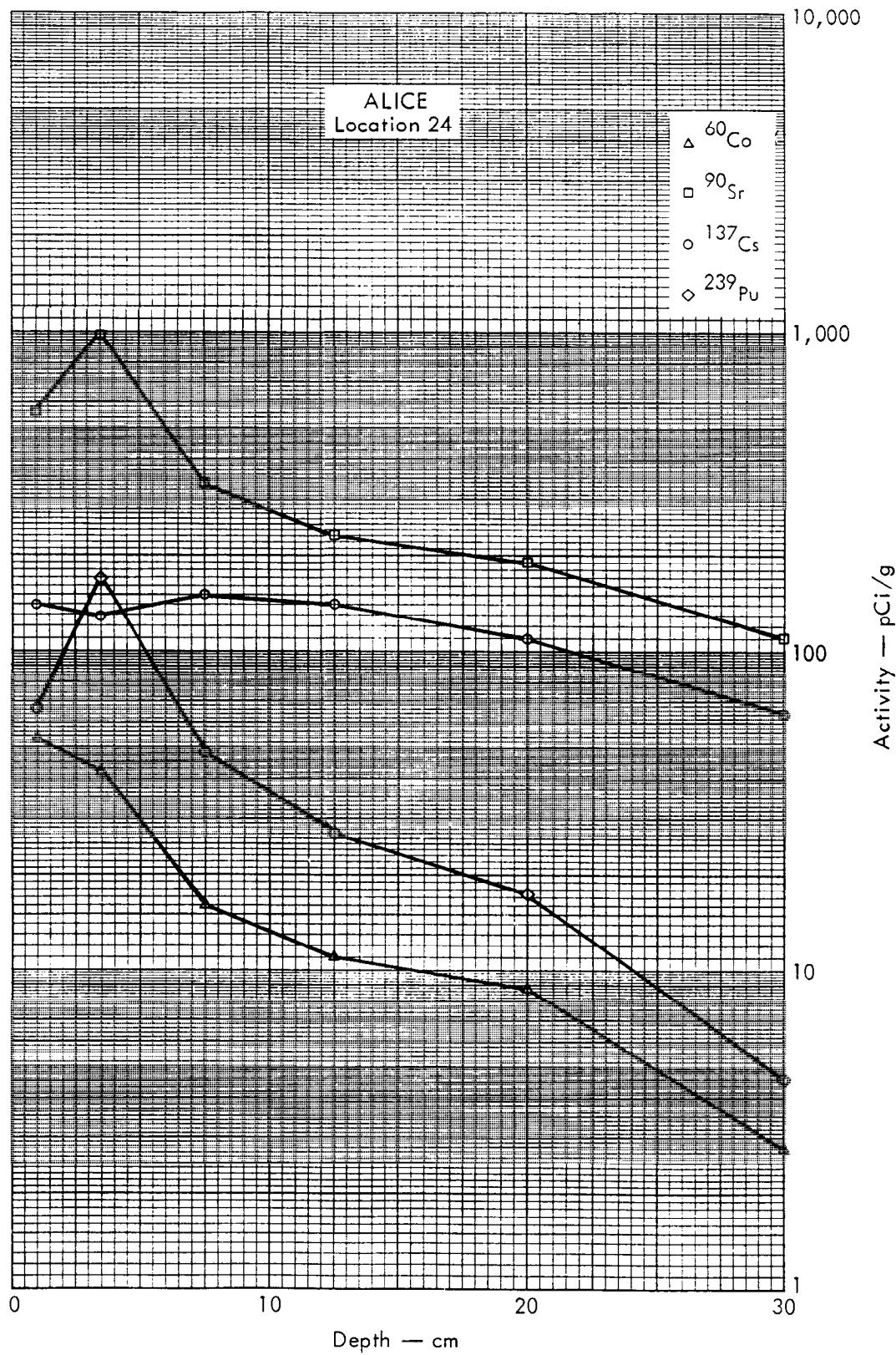


Fig. B.1.2b. Activities of selected radionuclides as a function of soil depth.

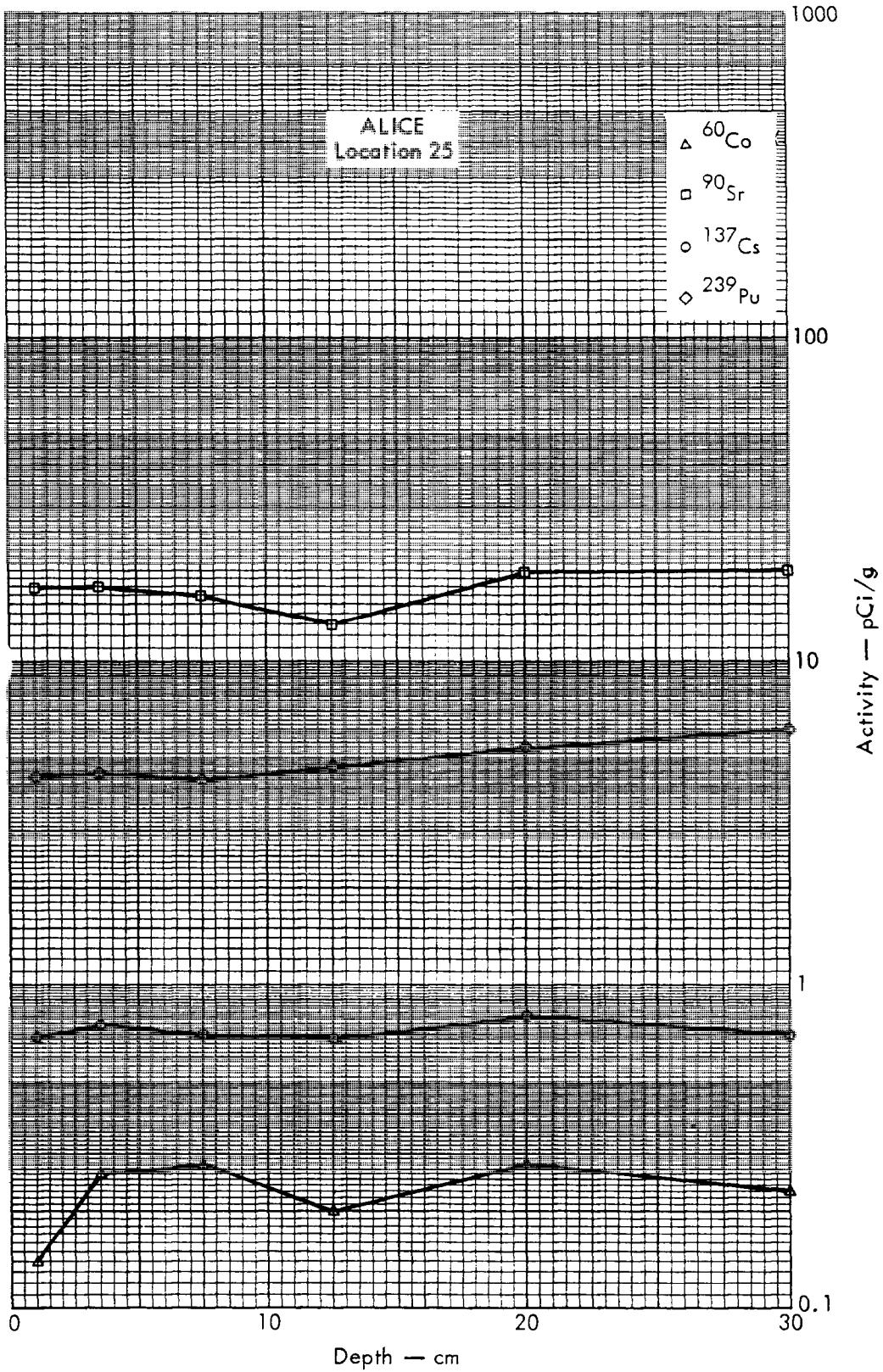


Fig. B.1.2c. Activities of selected radionuclides as a function of soil depth.

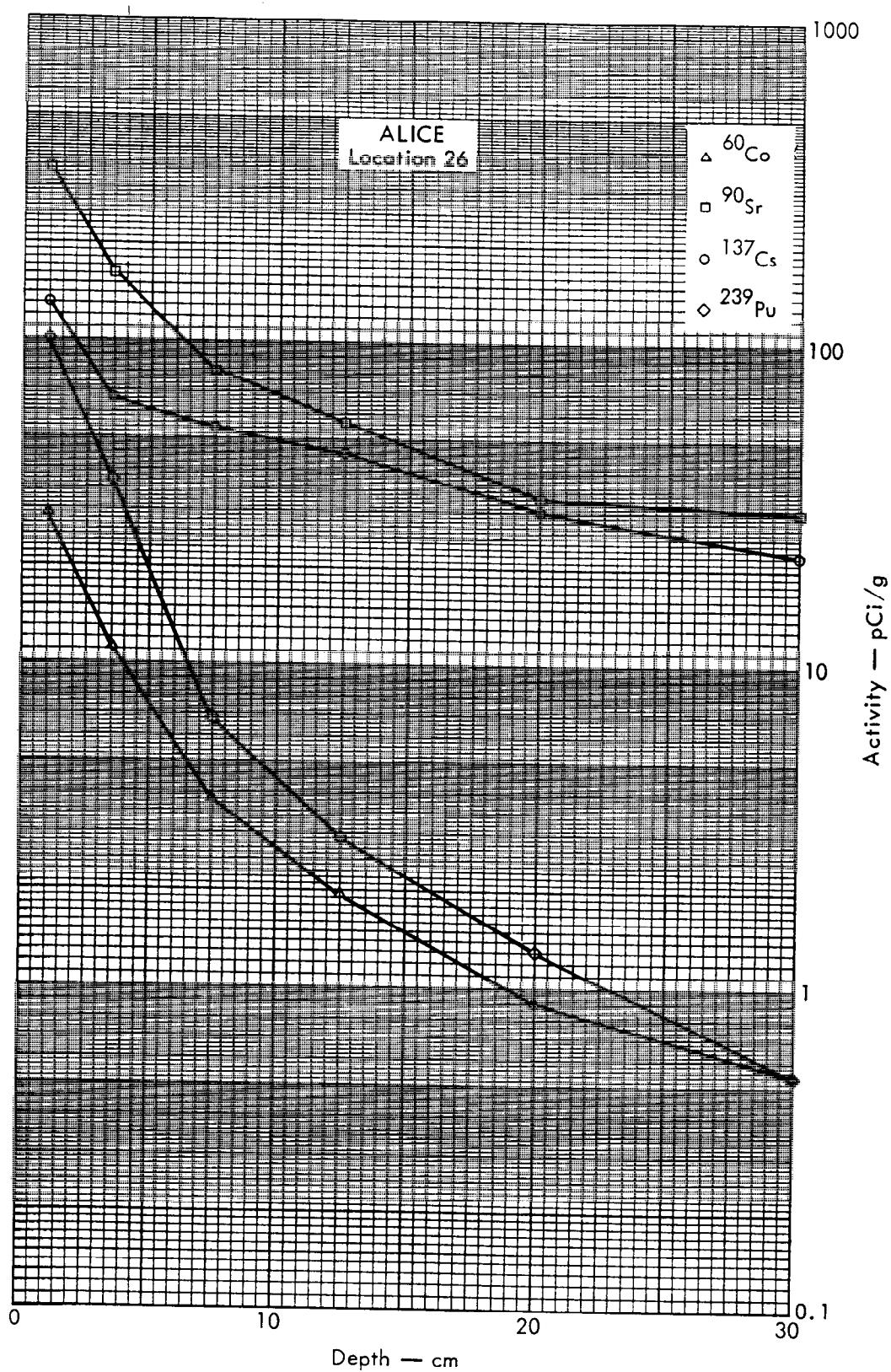


Fig. B.1.2d. Activities of selected radionuclides as a function of soil depth.

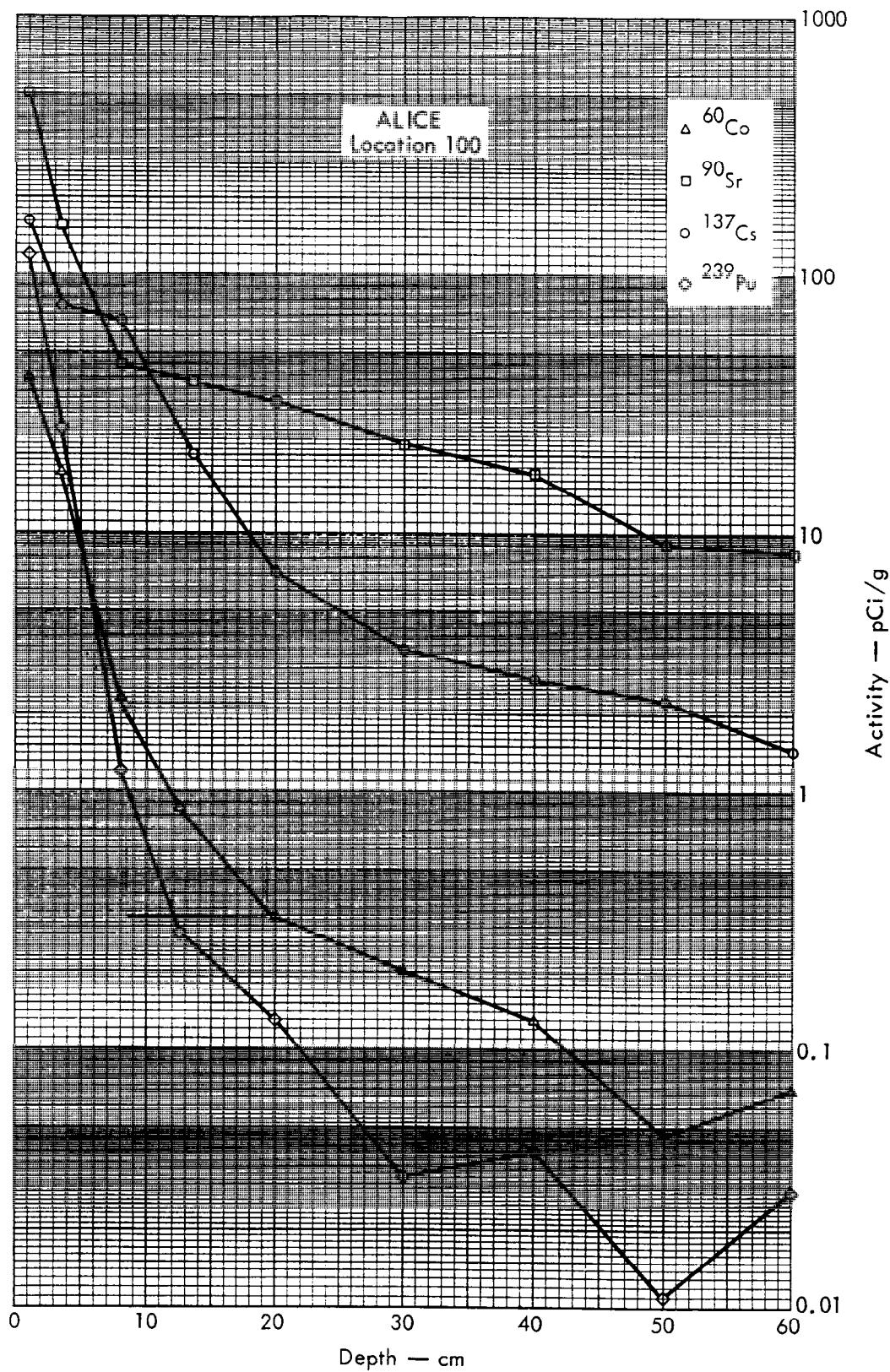


Fig. B.1.2e. Activities of selected radionuclides as a function of soil depth.

100 METERS

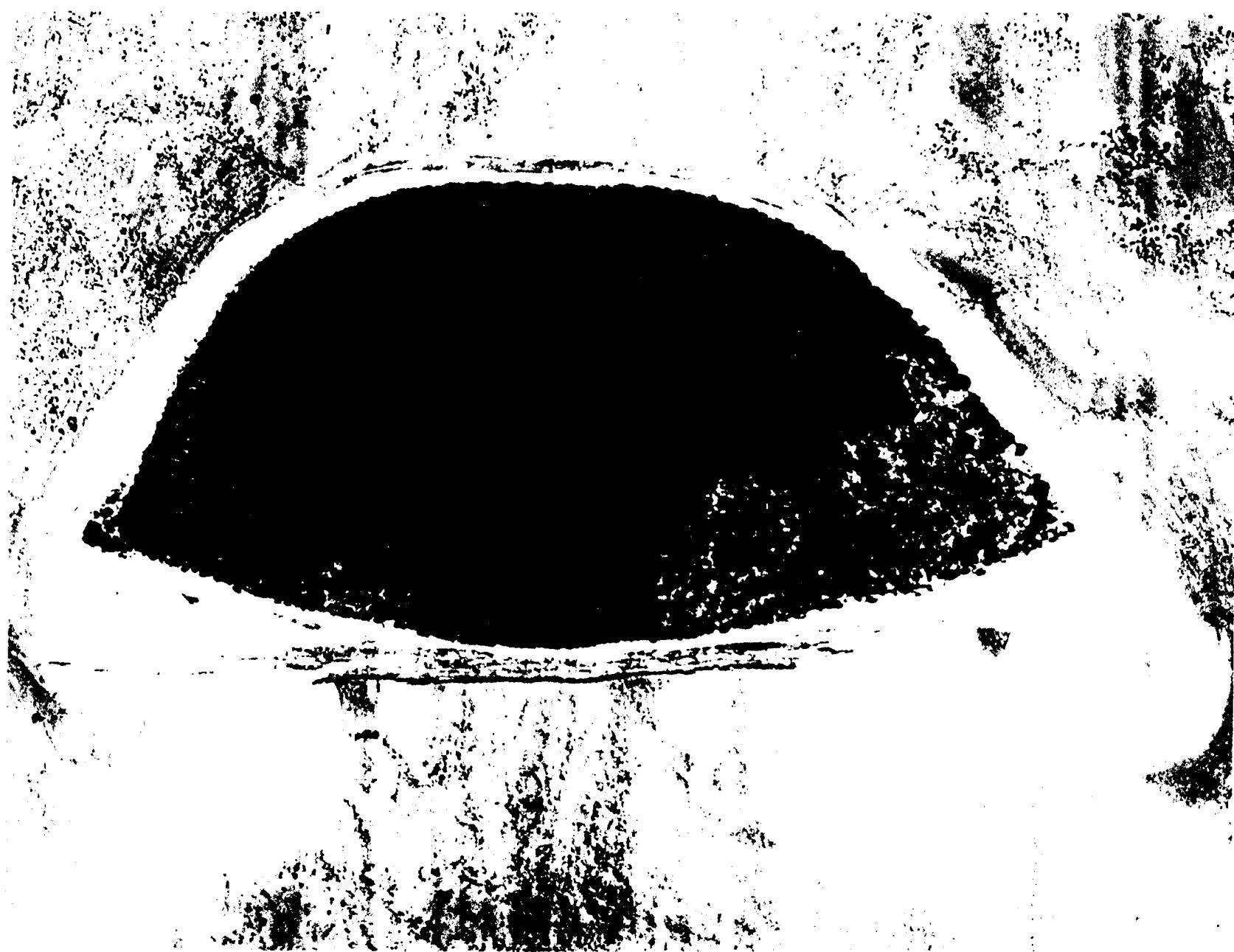


Fig. B.2.1.a.

100 METERS

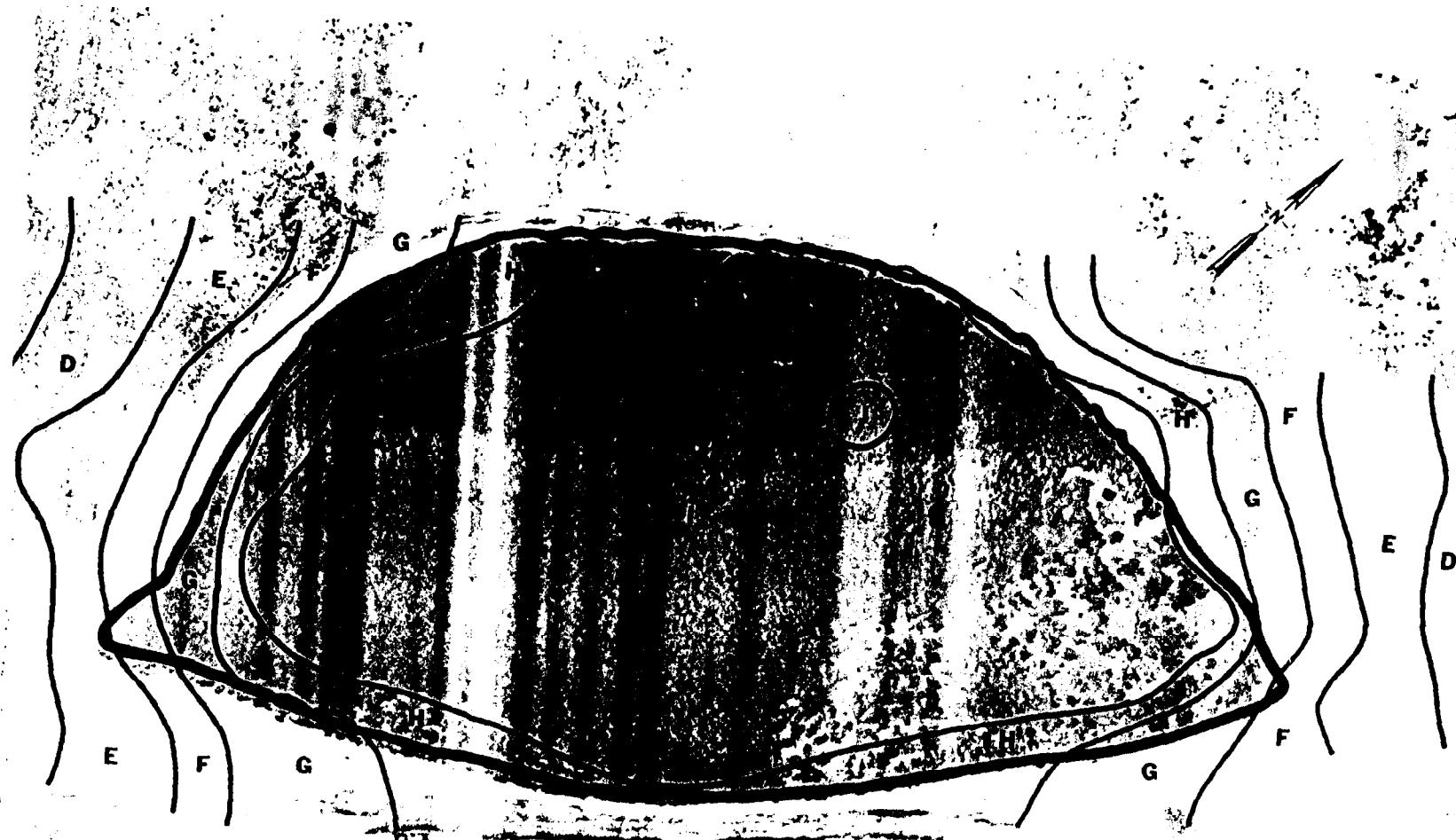


Fig. B.2.1.b. Gross count isoexposure contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

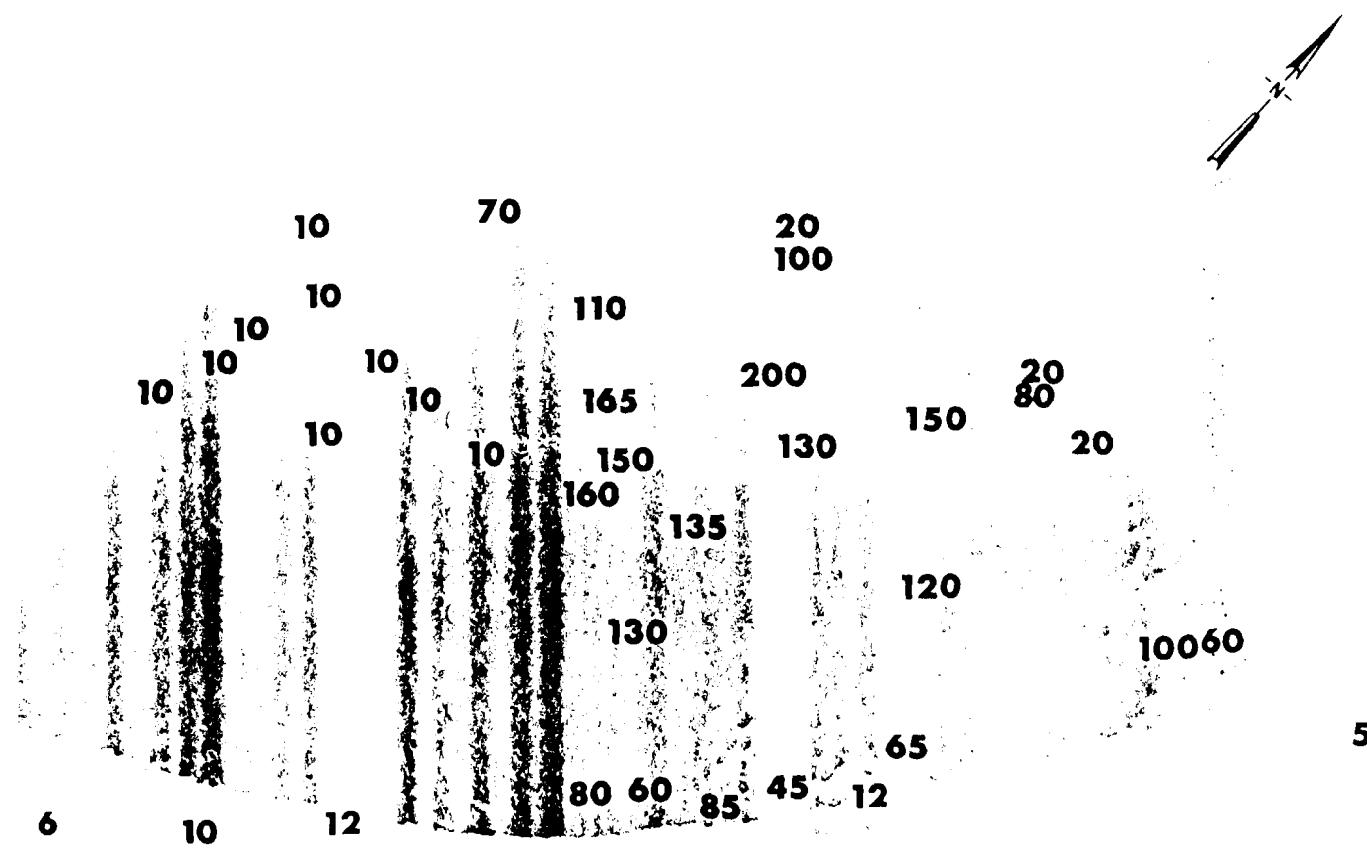


Fig. B.2.1.d. The gamma background exposure rate ( $\mu\text{R}/\text{hr}$ ) at 1 m above the ground, measured with a portable NaI scintillation counter.

100 METERS

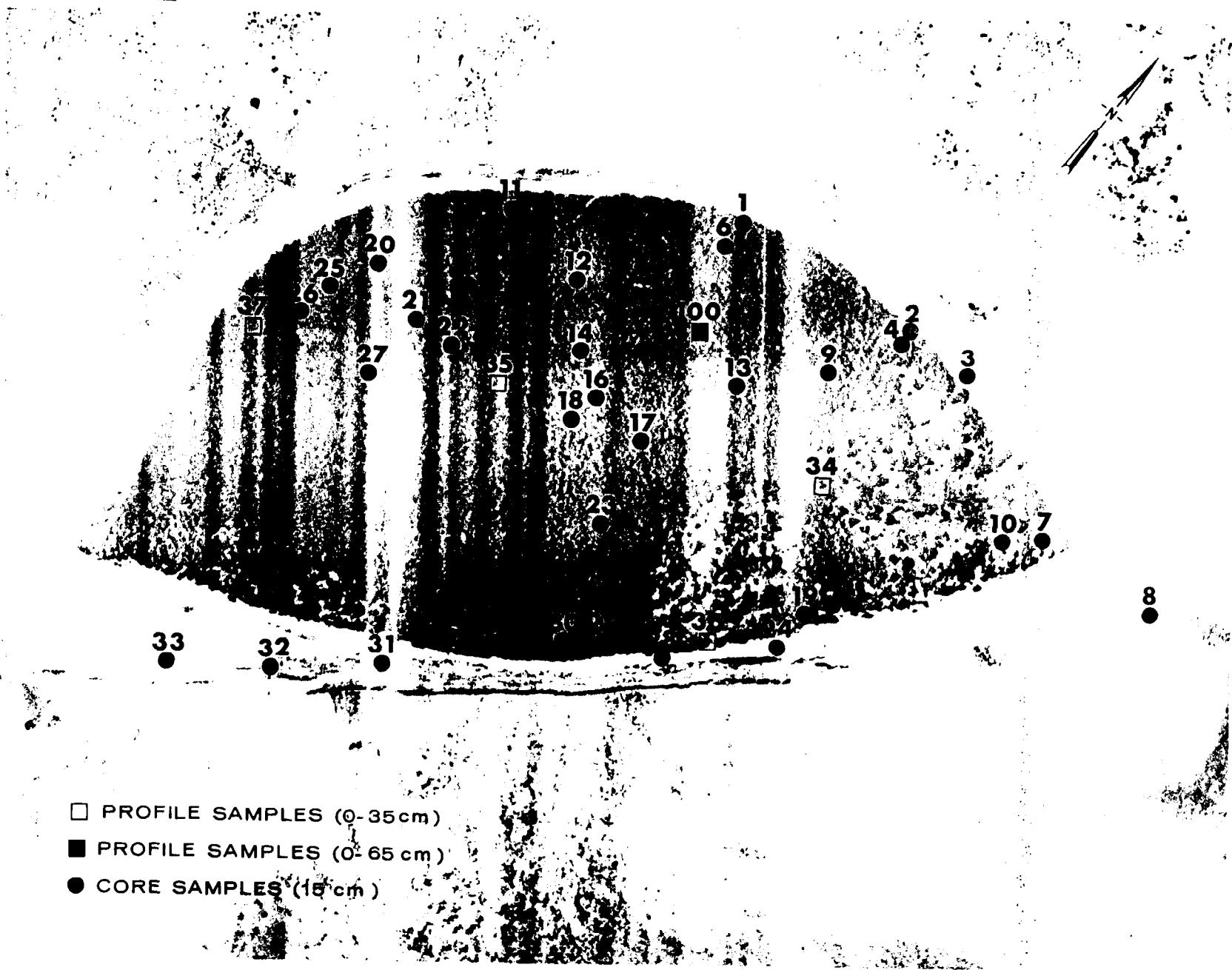
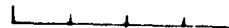
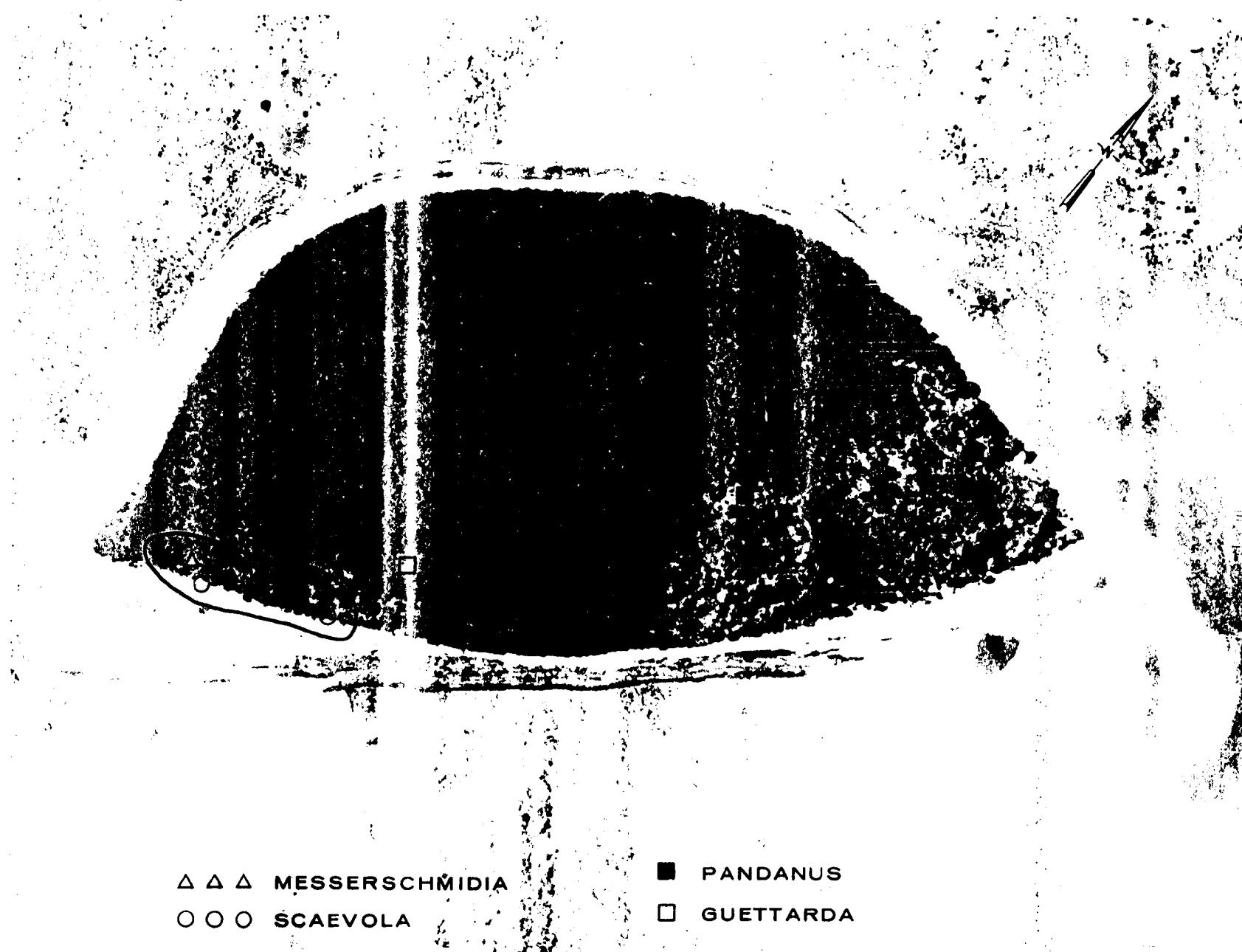


Fig. B.2.1.f. Soil-sample locations.

100 METERS



△ △ △ MESSERSCHMIDIA

○ ○ ○ SCAEVOLA

■ PANDANUS

□ GUETTARDA

Fig. B.2.1.g. Vegetation sample locations.

100 METERS

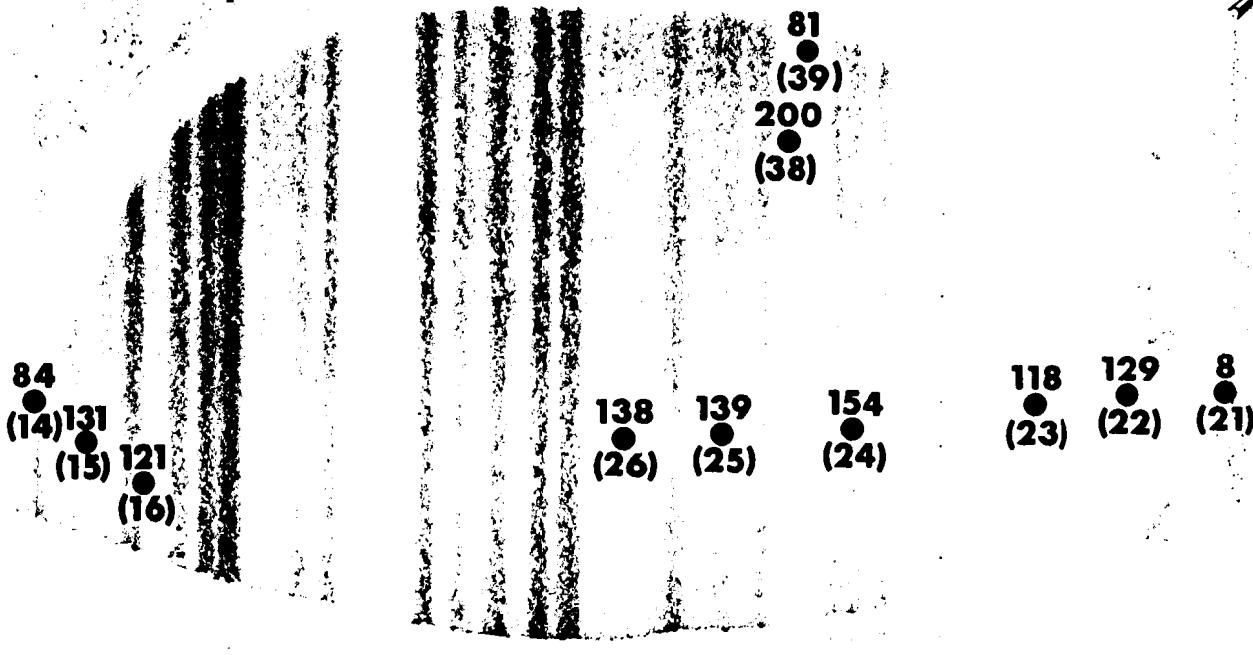
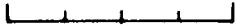


Fig. B.2.1.h. The gamma-ray exposure rates ( $\mu\text{R}/\text{hr}$ ) measured 1 m above the ground by the LiF thermoluminescent dosimeters (TLD). The numbers shown in parentheses denote the location identification numbers.

100 METERS  


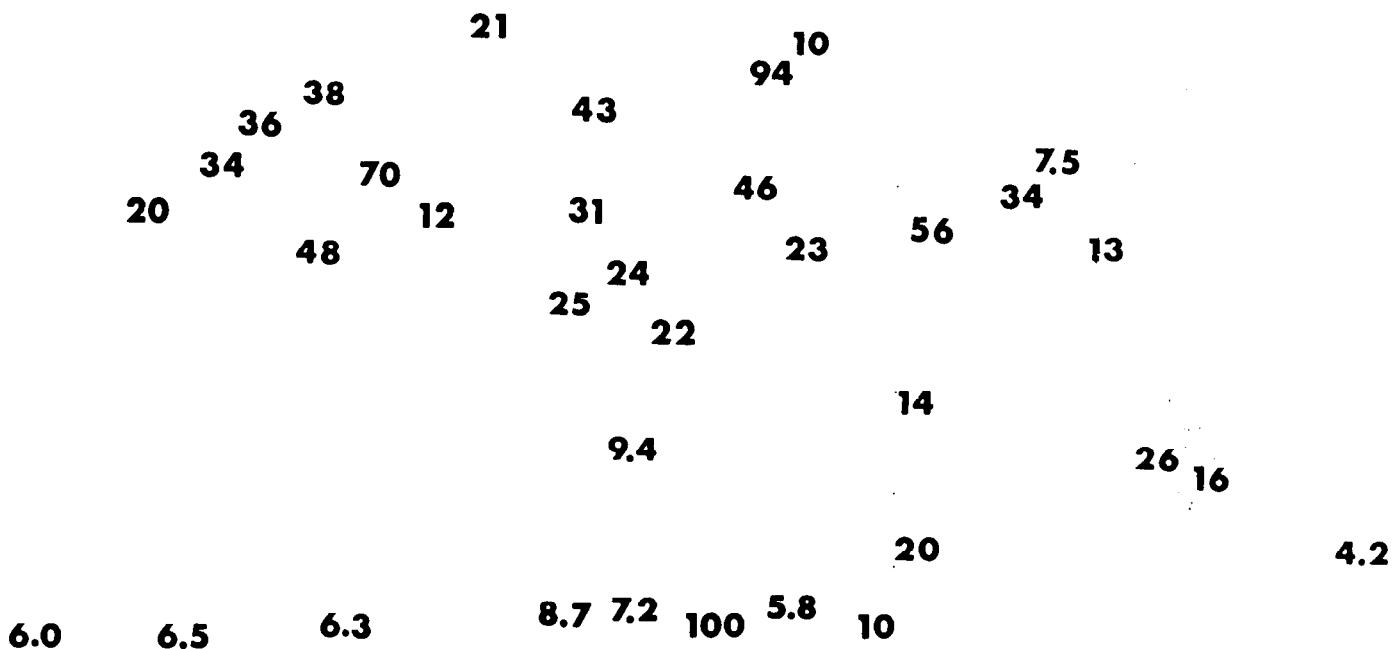
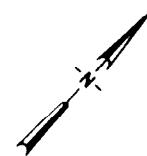


Fig. B.2.1.i. The average  $^{239}\text{Pu}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

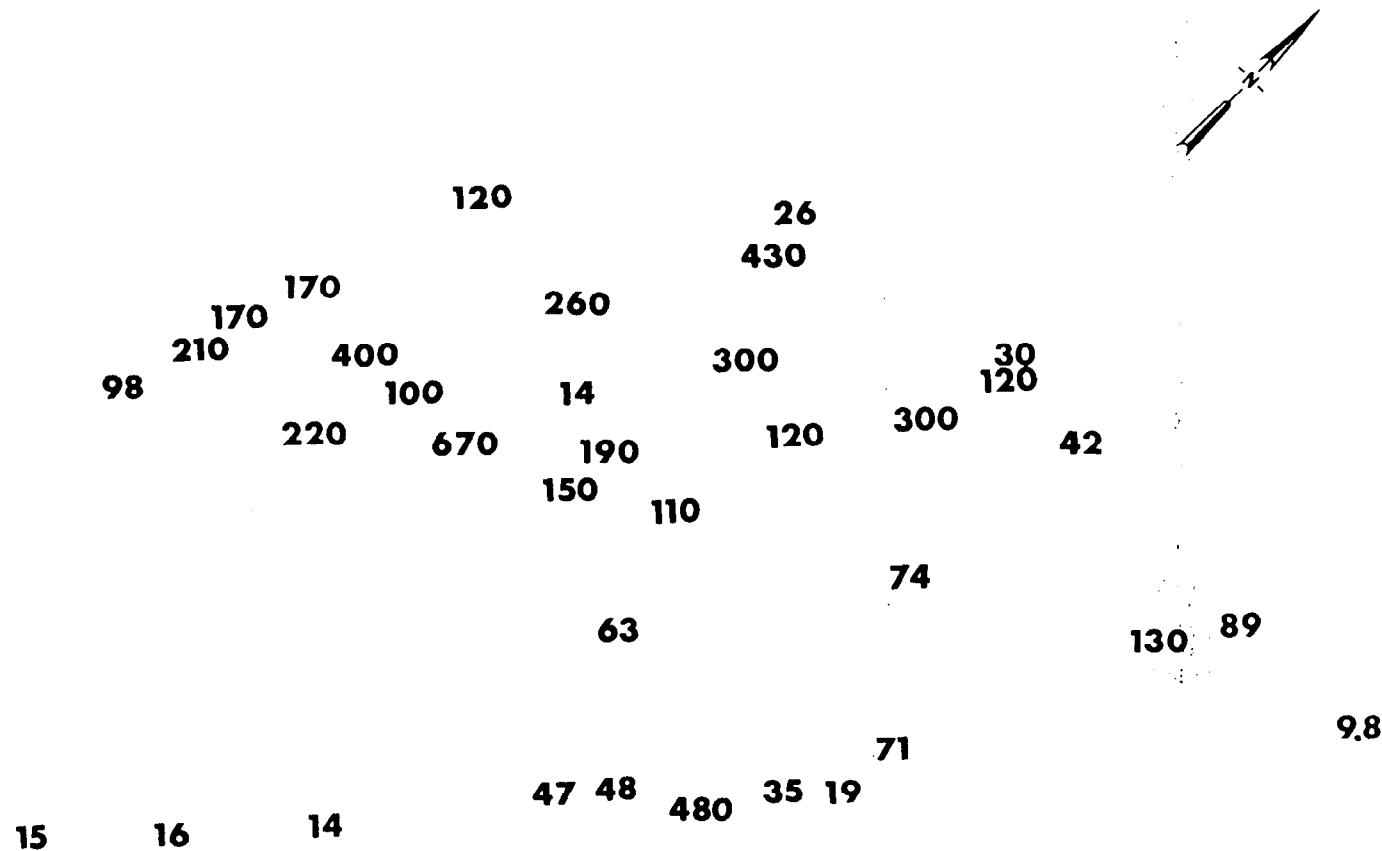


Fig. B.2.1.j. The average  $^{80}\text{Sr}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

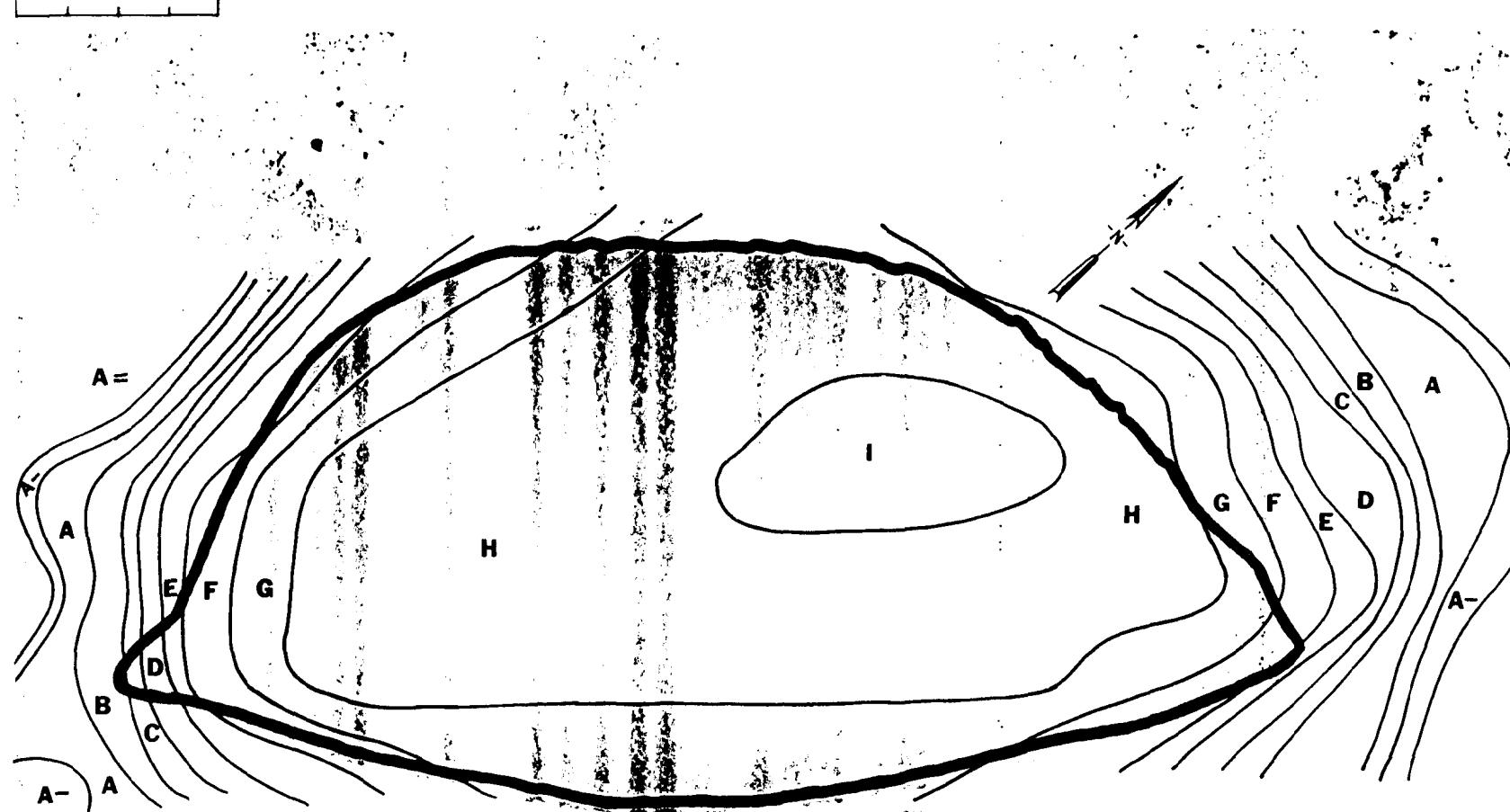


Fig. B.2.1.k.  $^{137}\text{Cs}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

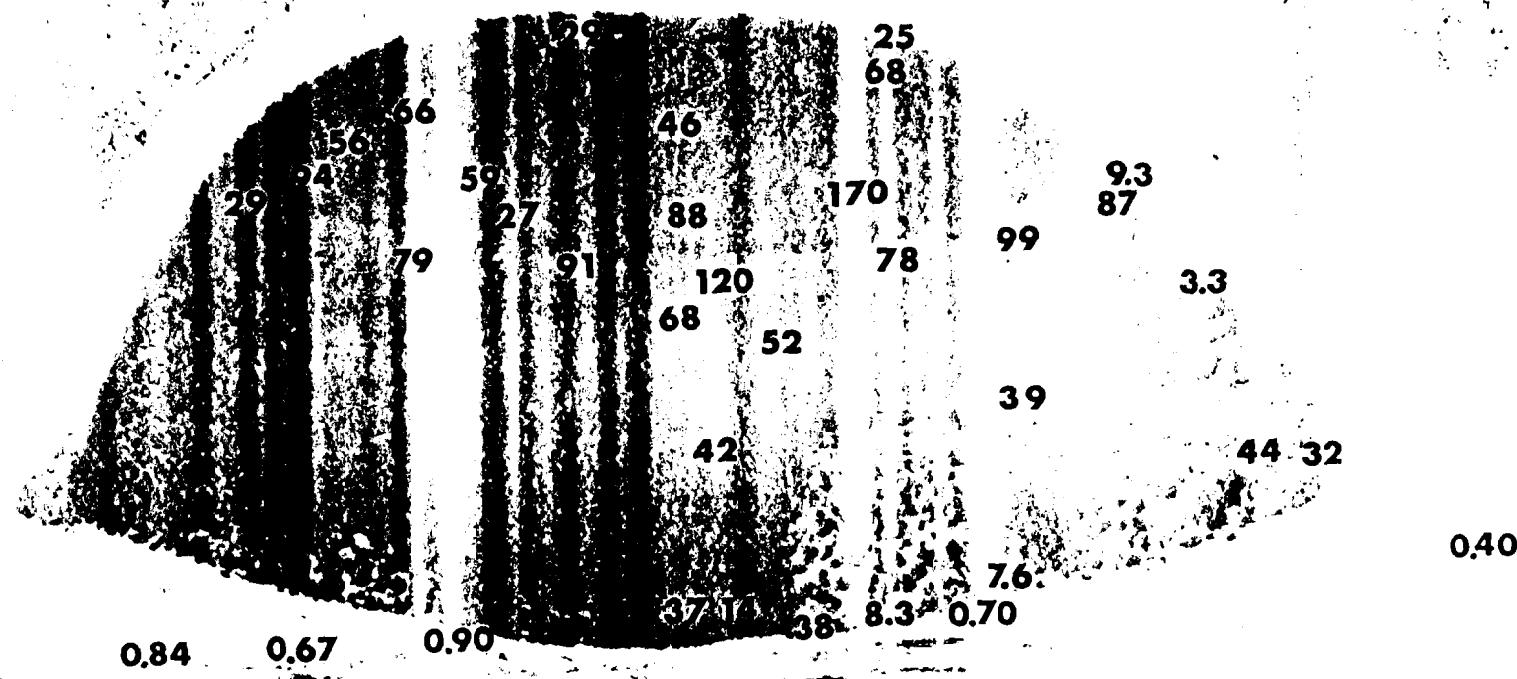
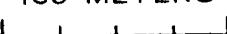


Fig. B.2.1.1. The average  $^{137}\text{Cs}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

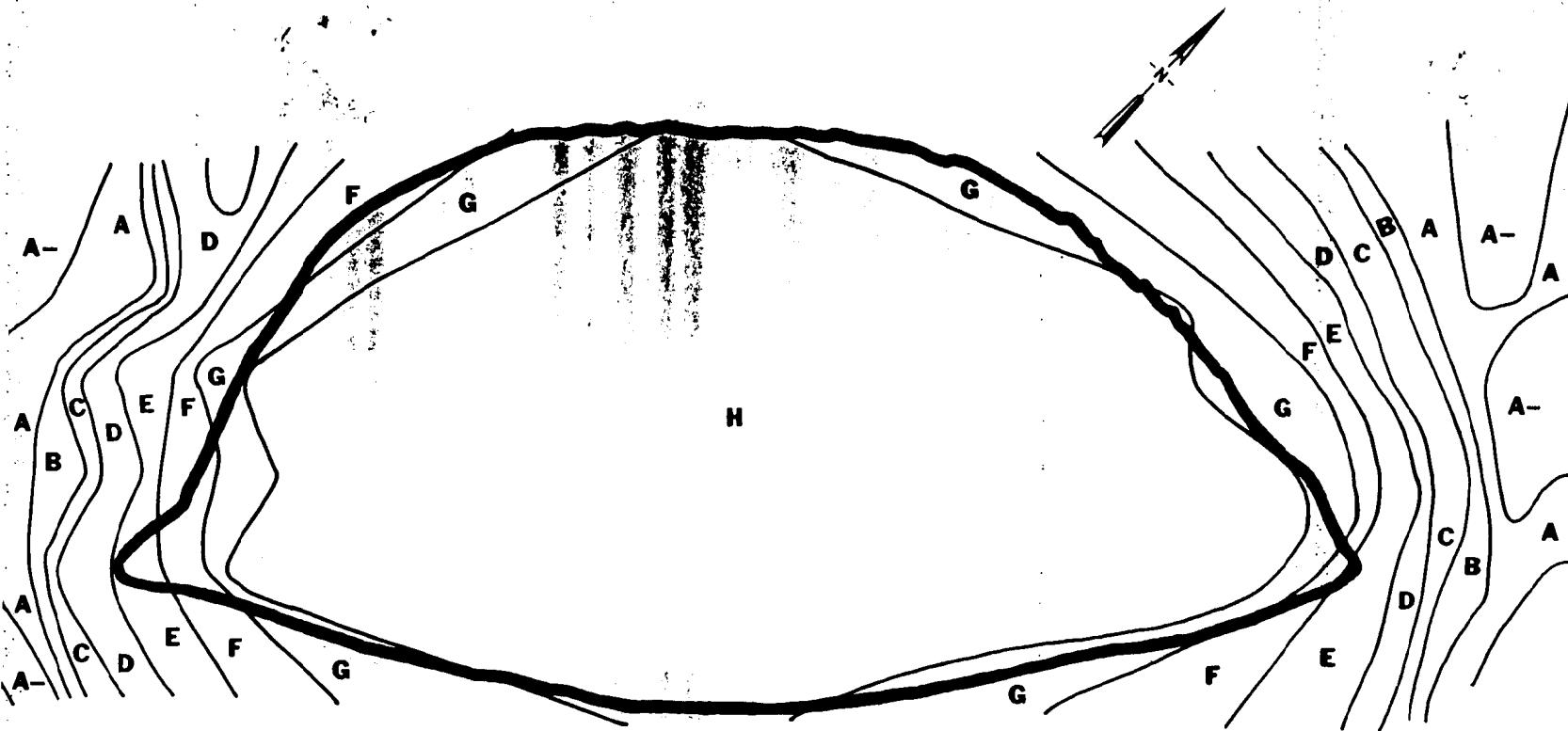


Fig. B.2.1.m.  $^{60}\text{Co}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

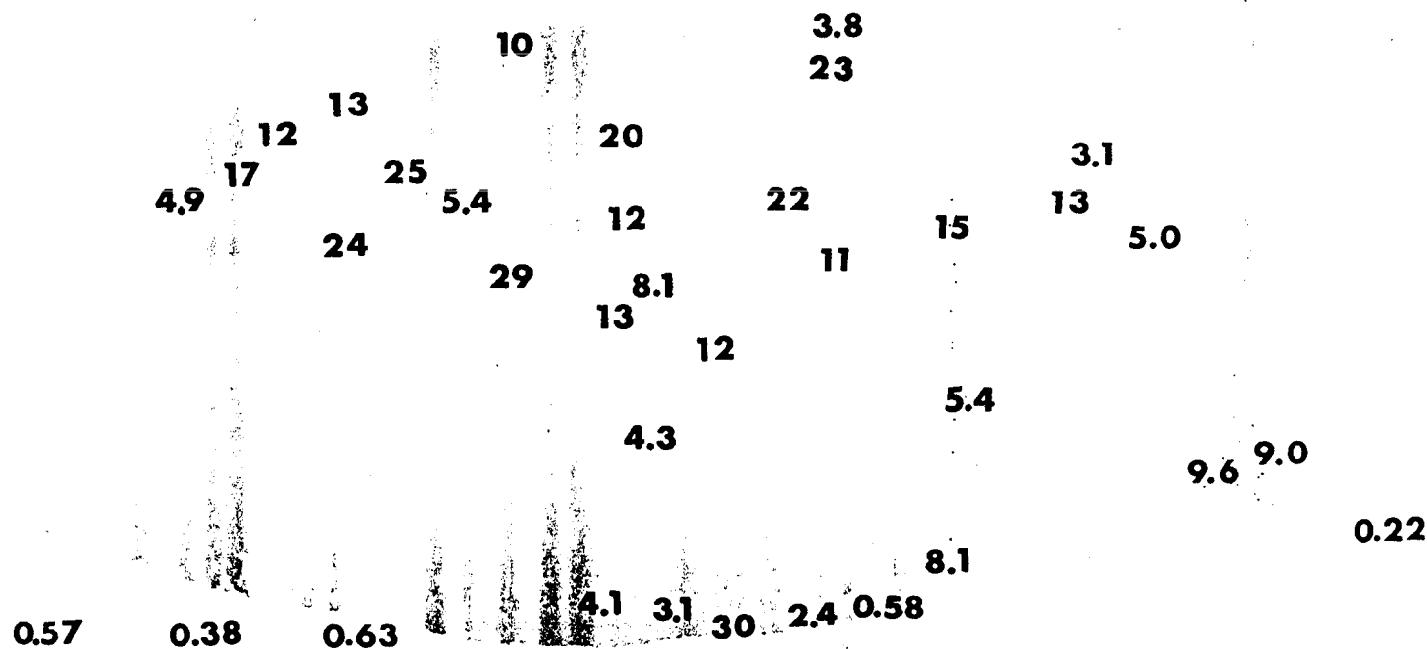


Fig. B.2.1.n. The average  $^{60}\text{Co}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

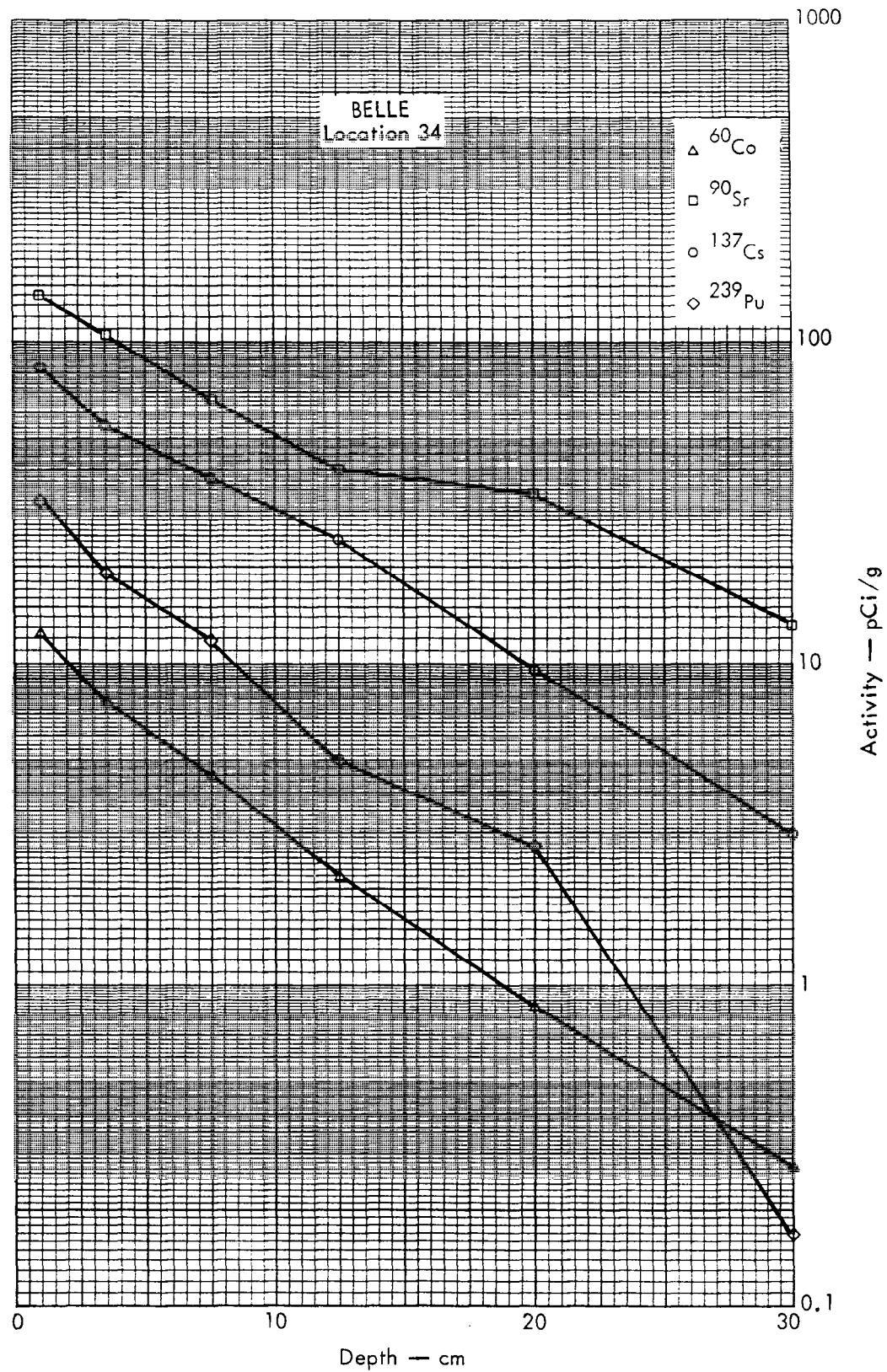


Fig. B. 2.2a. Activities of selected radionuclides as a function of soil depth.

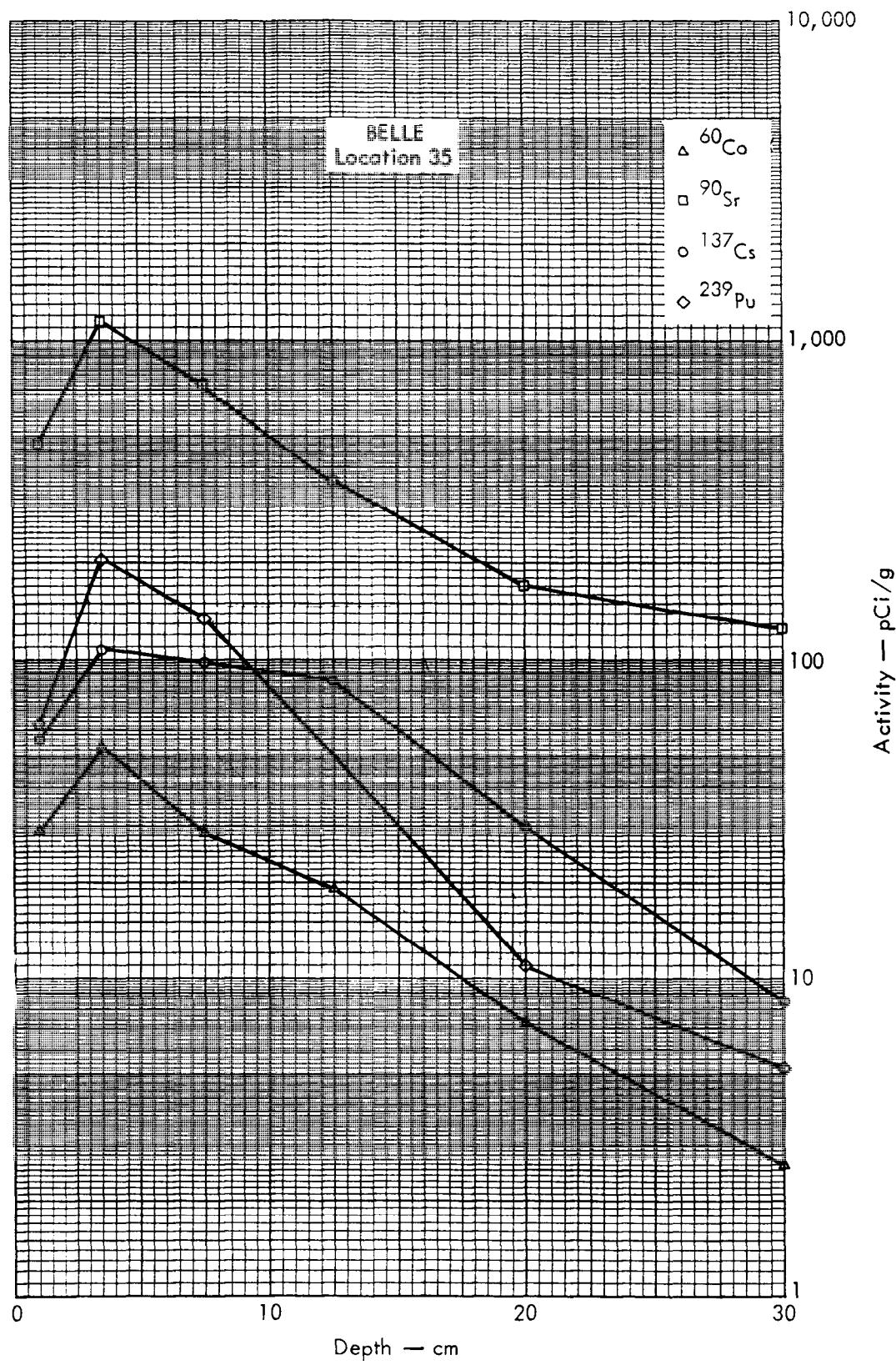


Fig. B. 2.2b. Activities of selected radionuclides as a function of soil depth.

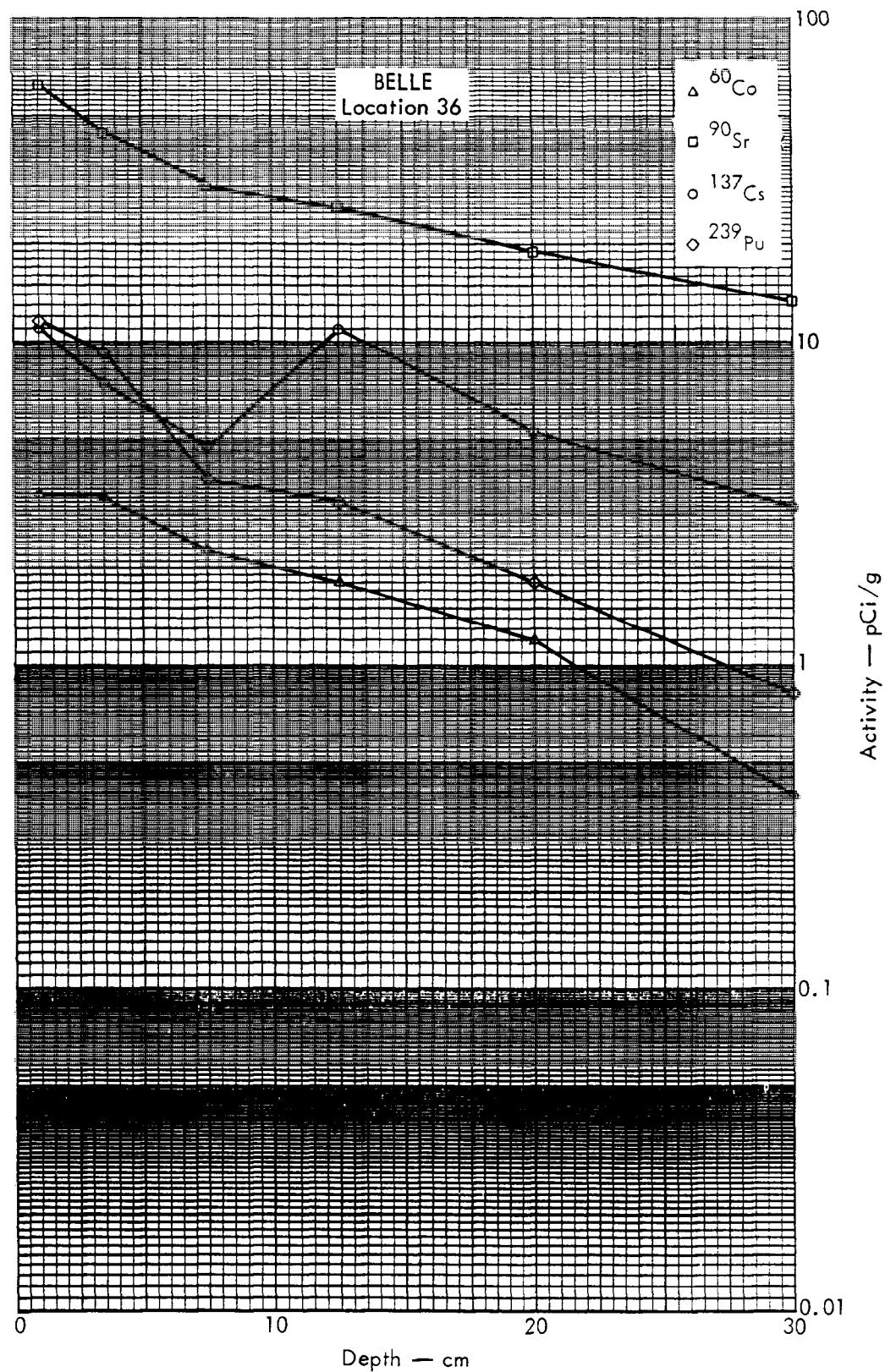


Fig. B.2.2c. Activities of selected radionuclides as a function of soil depth.

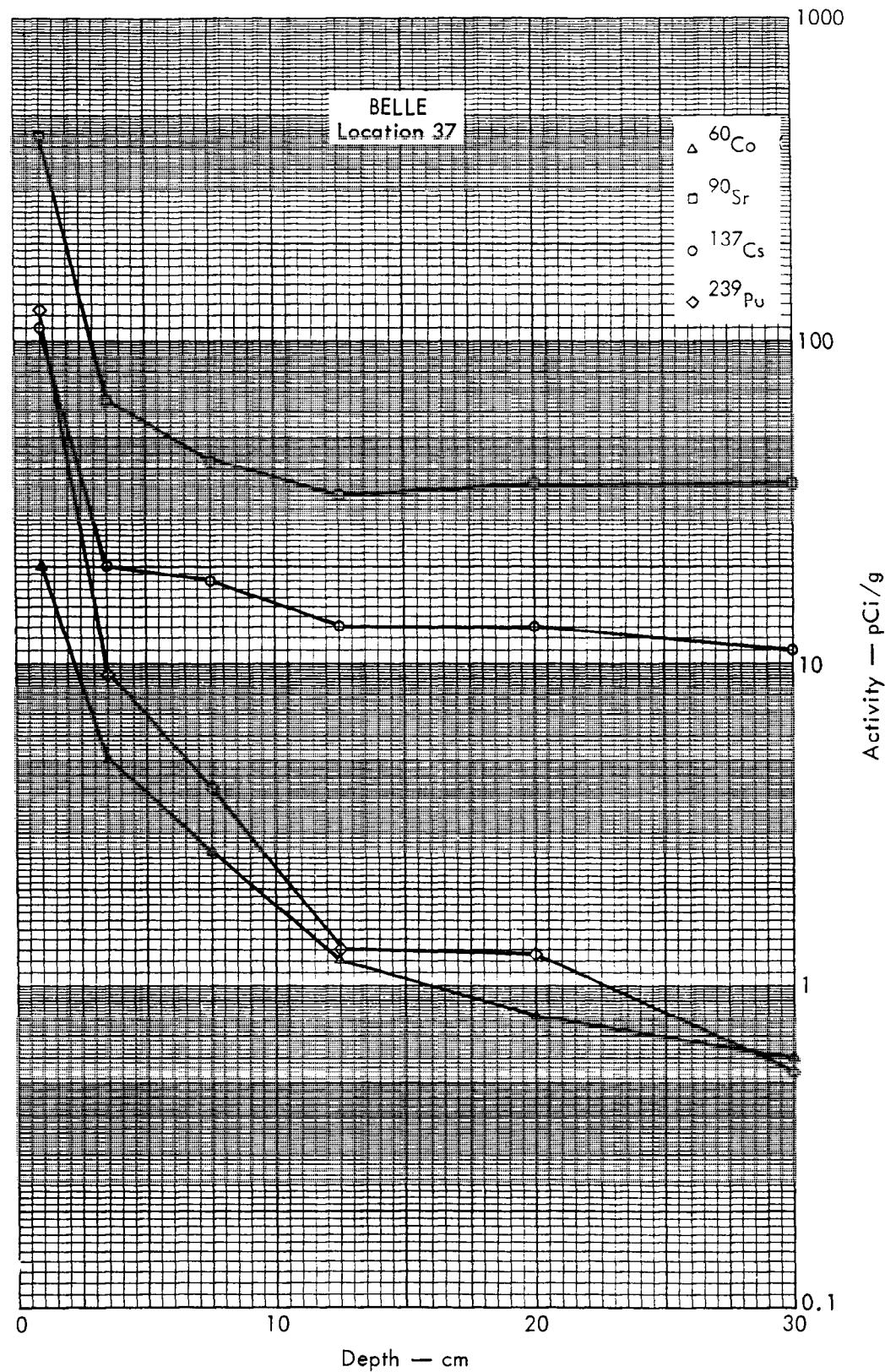


Fig. B.2.2d. Activities of selected radionuclides as a function of soil depth.

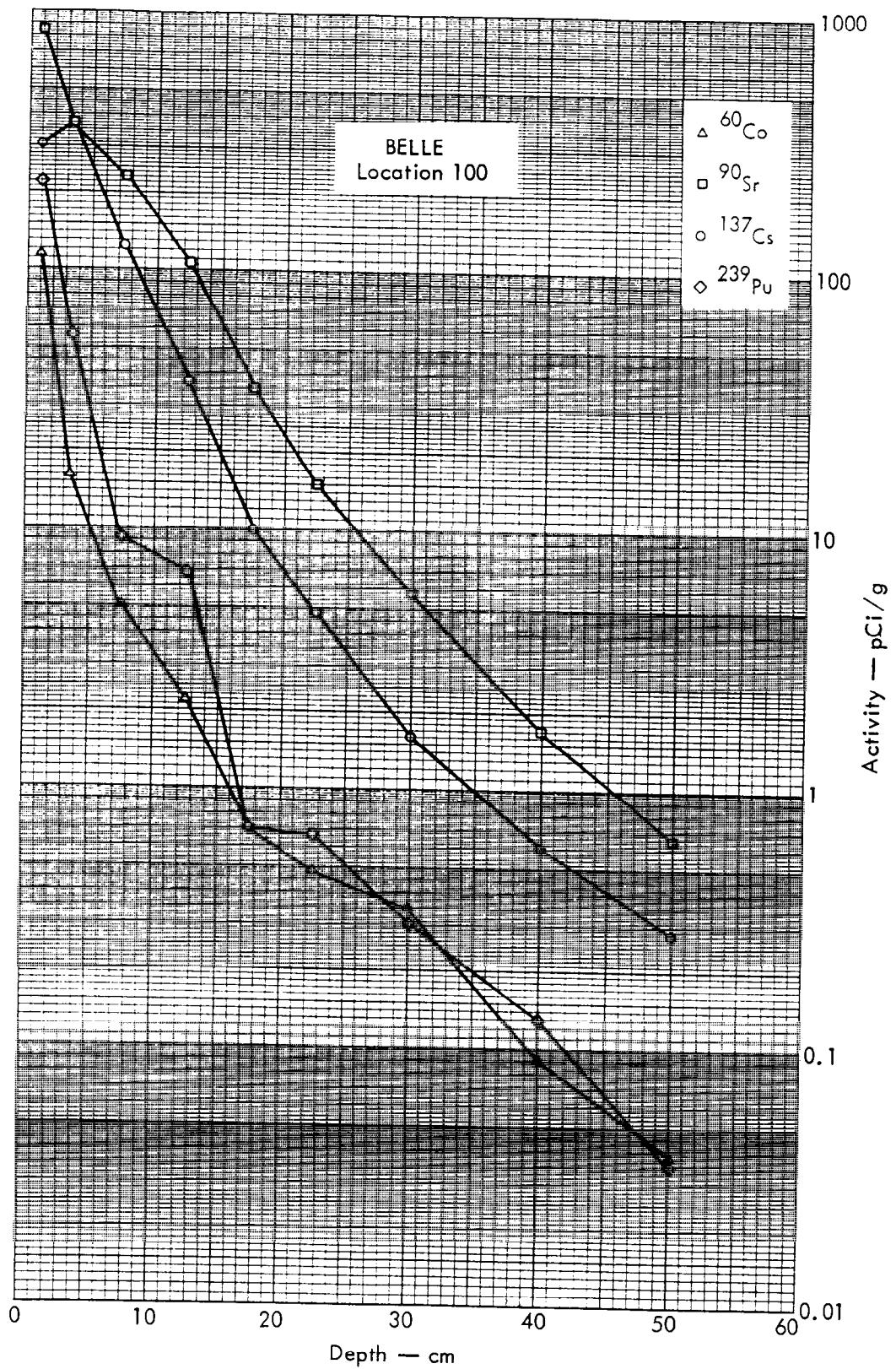


Fig. B. 2.2e. Activities of selected radionuclides as a function of soil depth.

100 METERS



Fig. B.3.1.a.

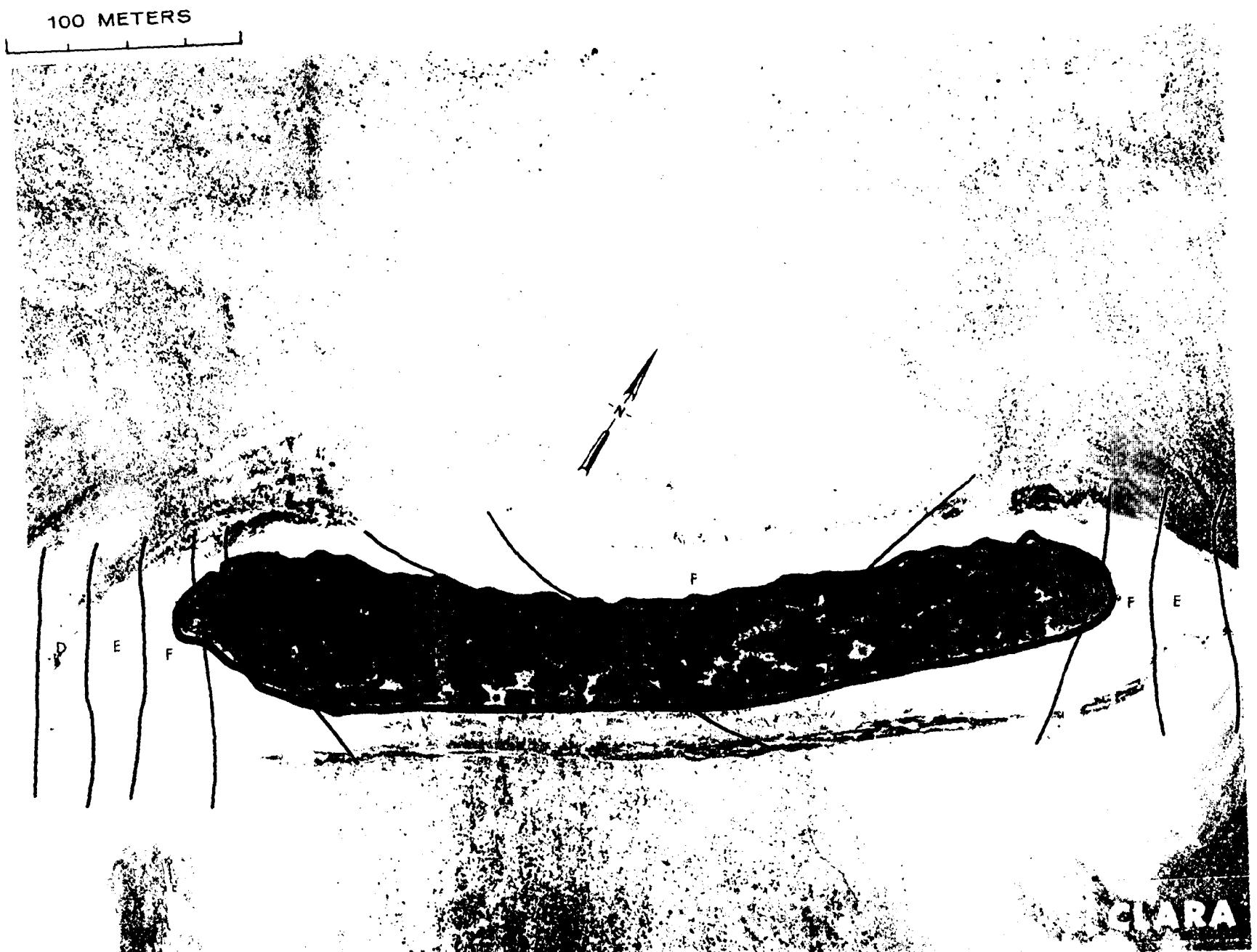


Fig. B.3.1.b. Gross count isoexposure contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

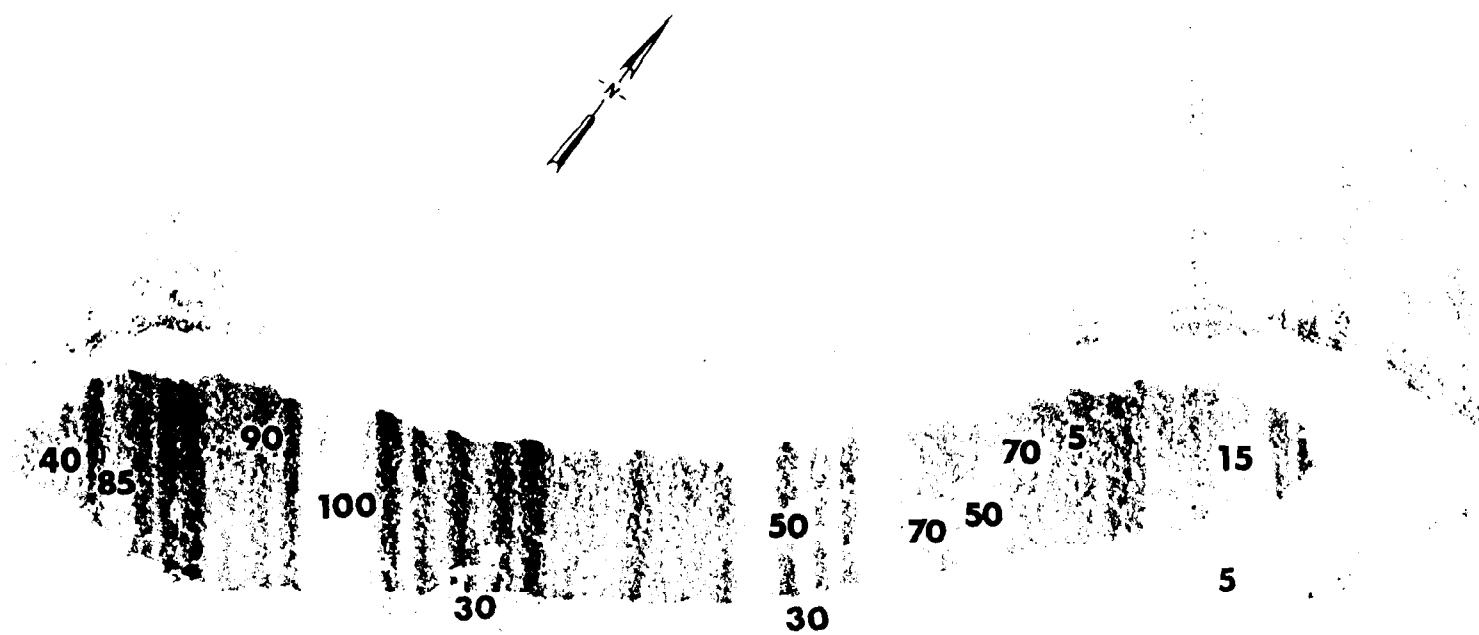


Fig. B.3.1.d. The gamma background exposure rate ( $\mu\text{R}/\text{hr}$ ) at 1 m above the ground, measured with a portable NaI scintillation counter.

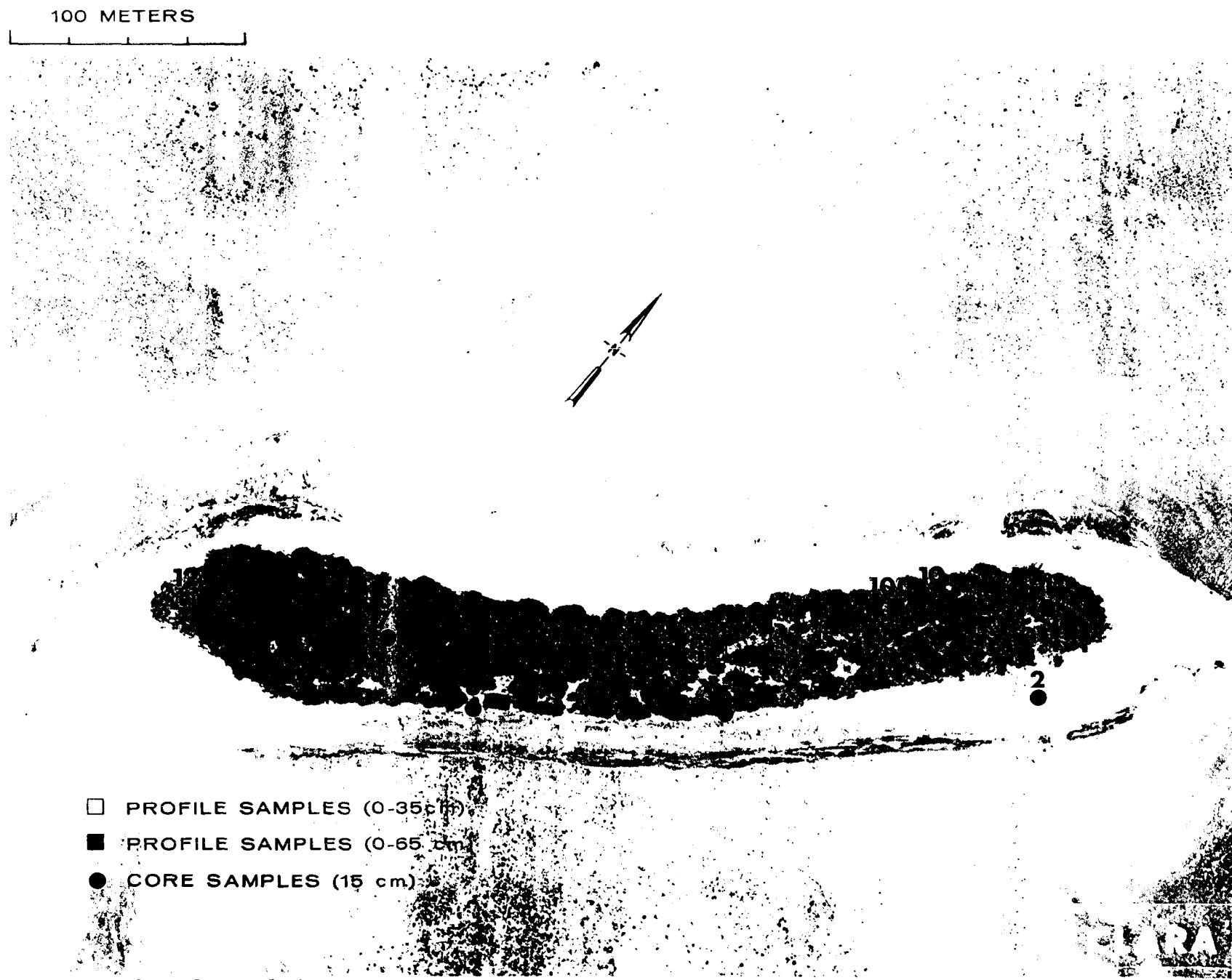


Fig. B.3.1.f. Soil-sample locations.

100 METERS

[Scale bar]

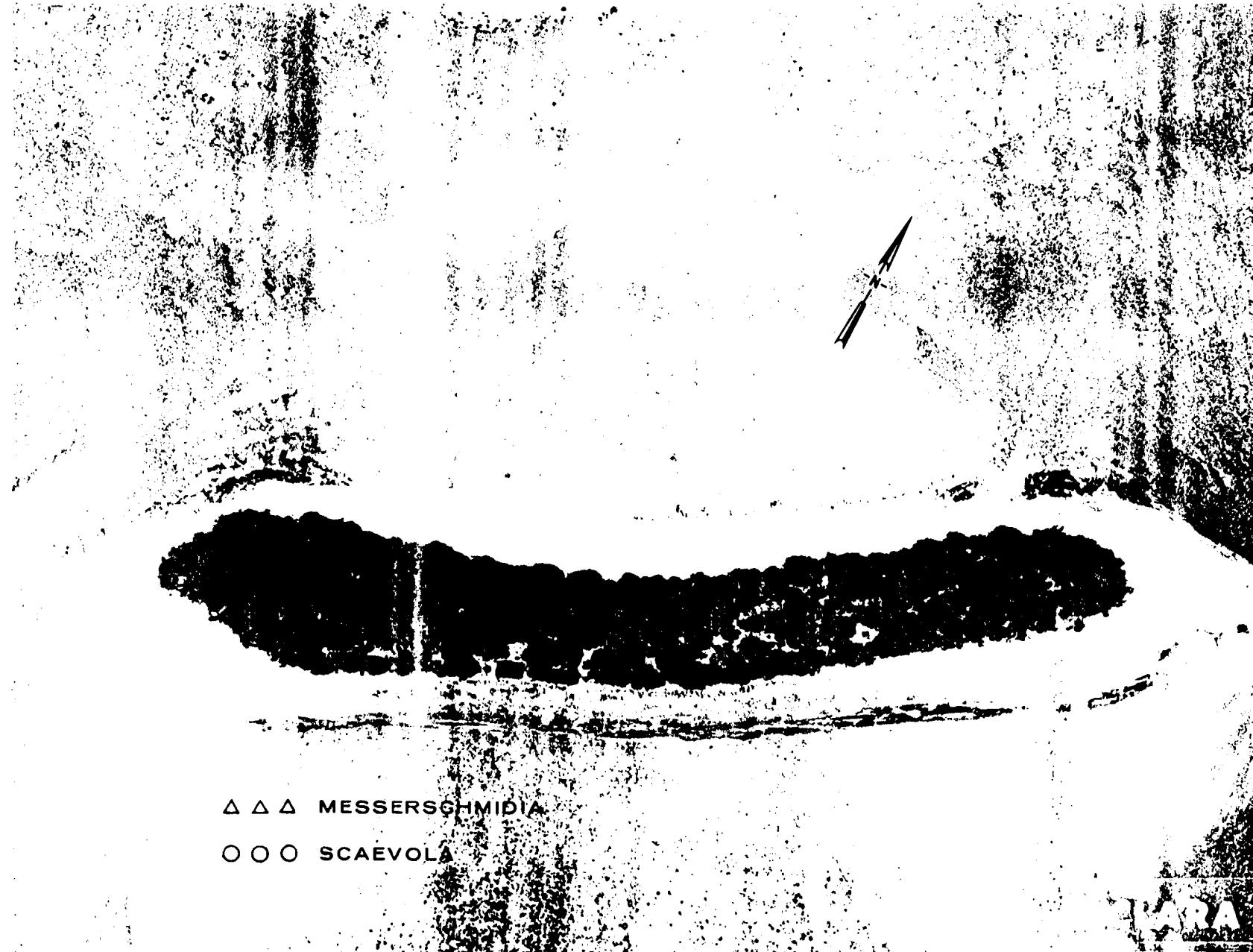


Fig. B.3.1.g. Vegetation sample locations.

100 METERS

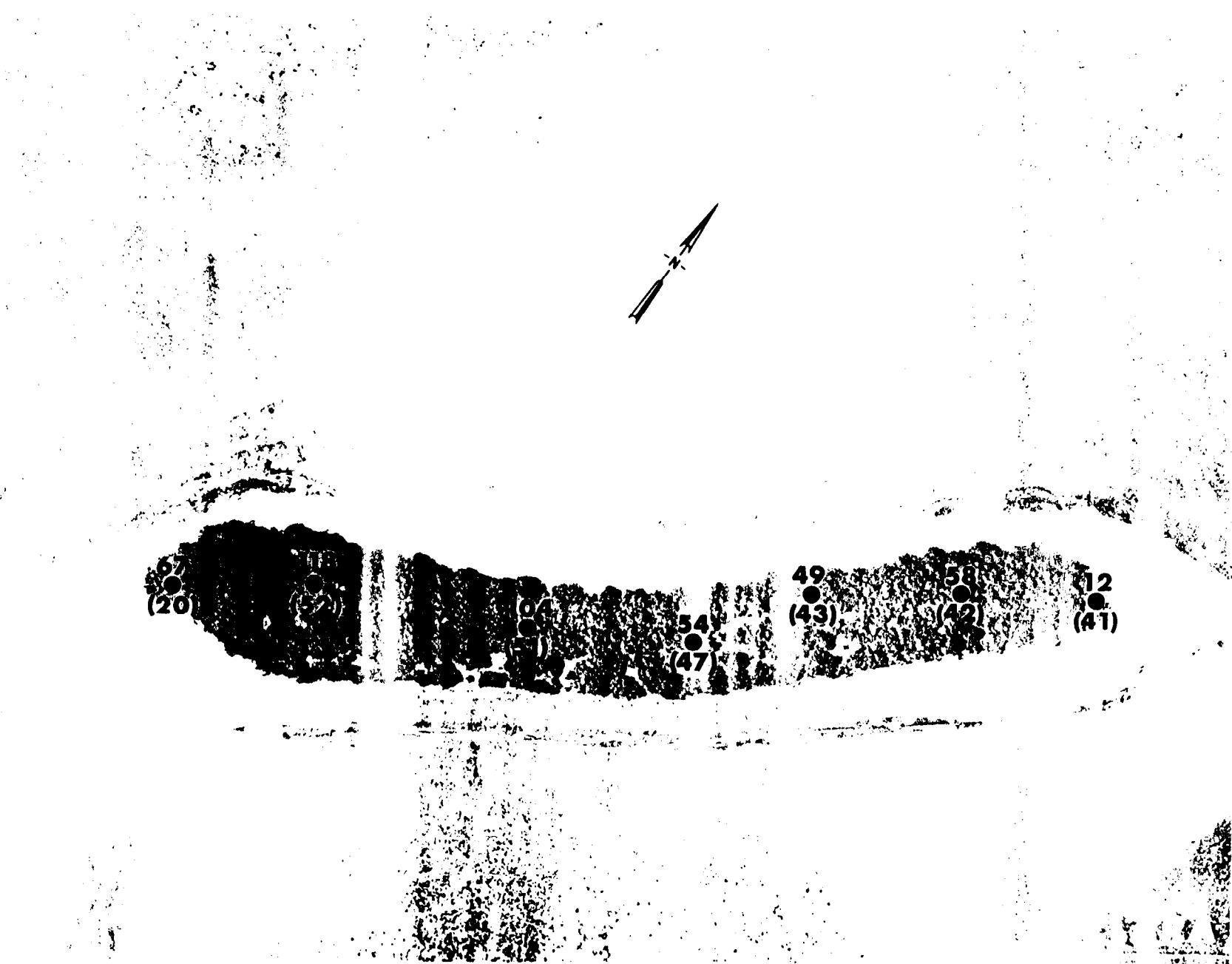


Fig. B.3.1.h. The gamma-ray exposure rates ( $\mu\text{R}/\text{hr}$ ) measured 1 m above the ground by the LiF thermoluminescent dosimeters (TLD). The numbers shown in parentheses denote the location identification numbers.

100 METERS



Fig. B.3.1.i. The average  $^{239}\text{Pu}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS



Fig. B.3.1.j. The average  $^{90}\text{Sr}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

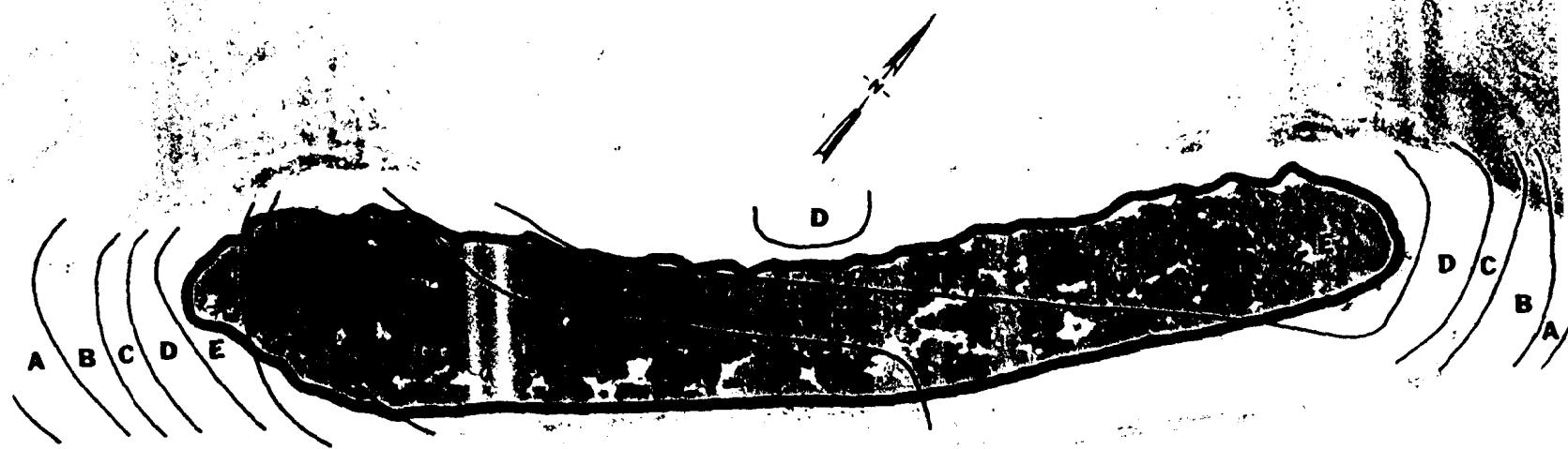


Fig. B.3.1.k.  $^{137}\text{Cs}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

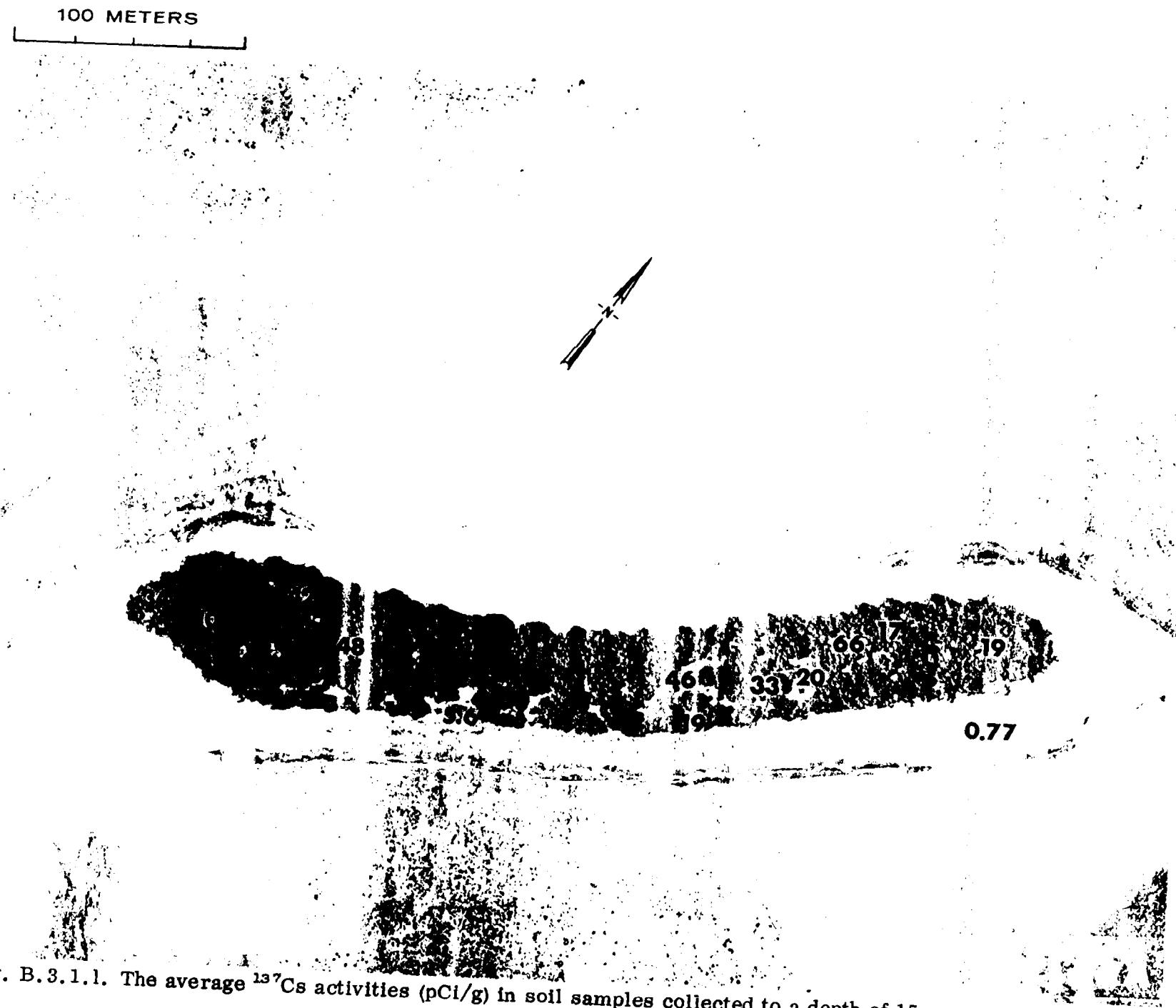


Fig. B.3.1.1. The average  $^{137}\text{Cs}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

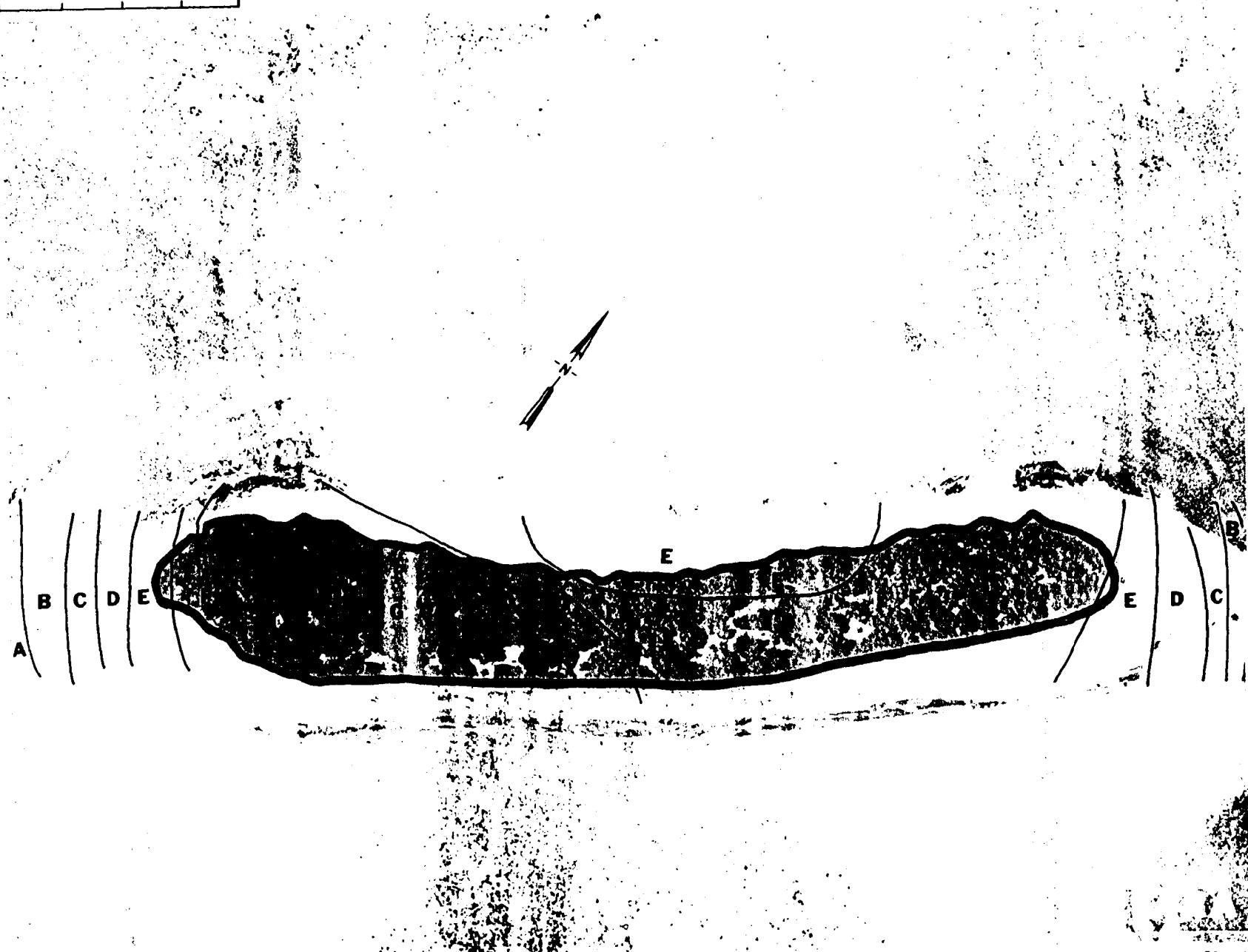


Fig. B.3.1.m.  $^{60}\text{Co}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

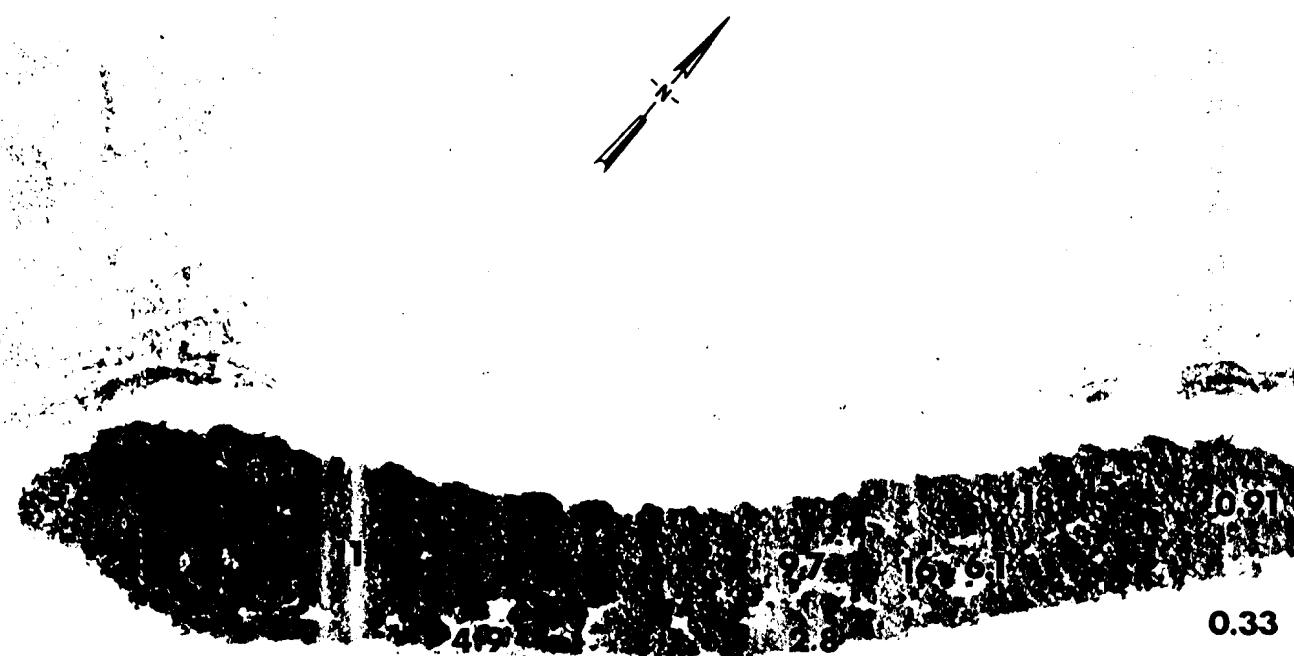


Fig. B. 3.1.n. The average  $^{60}\text{Co}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

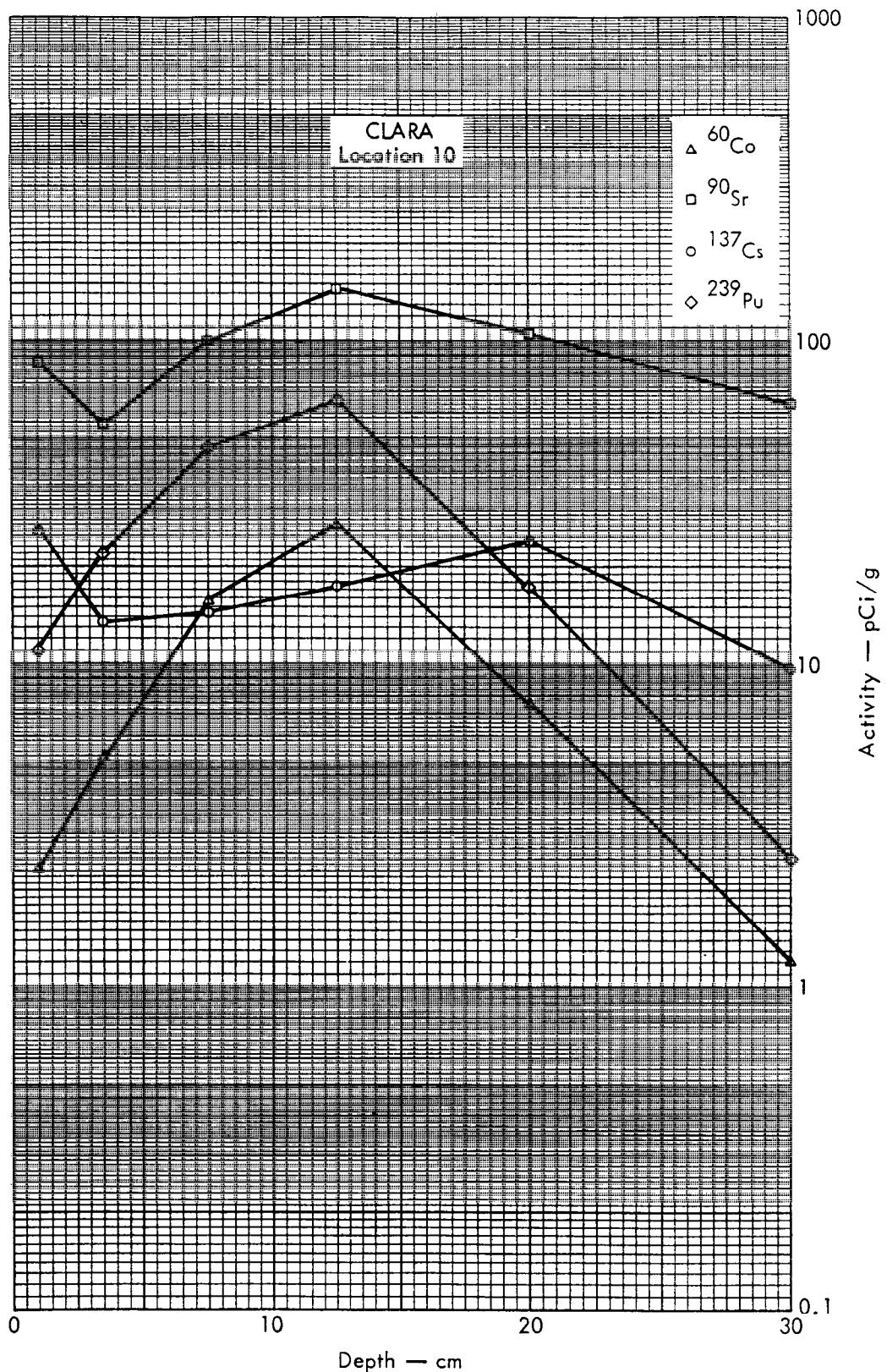


Fig. B. 3. 2a. Activities of selected radionuclides as a function of soil depth.

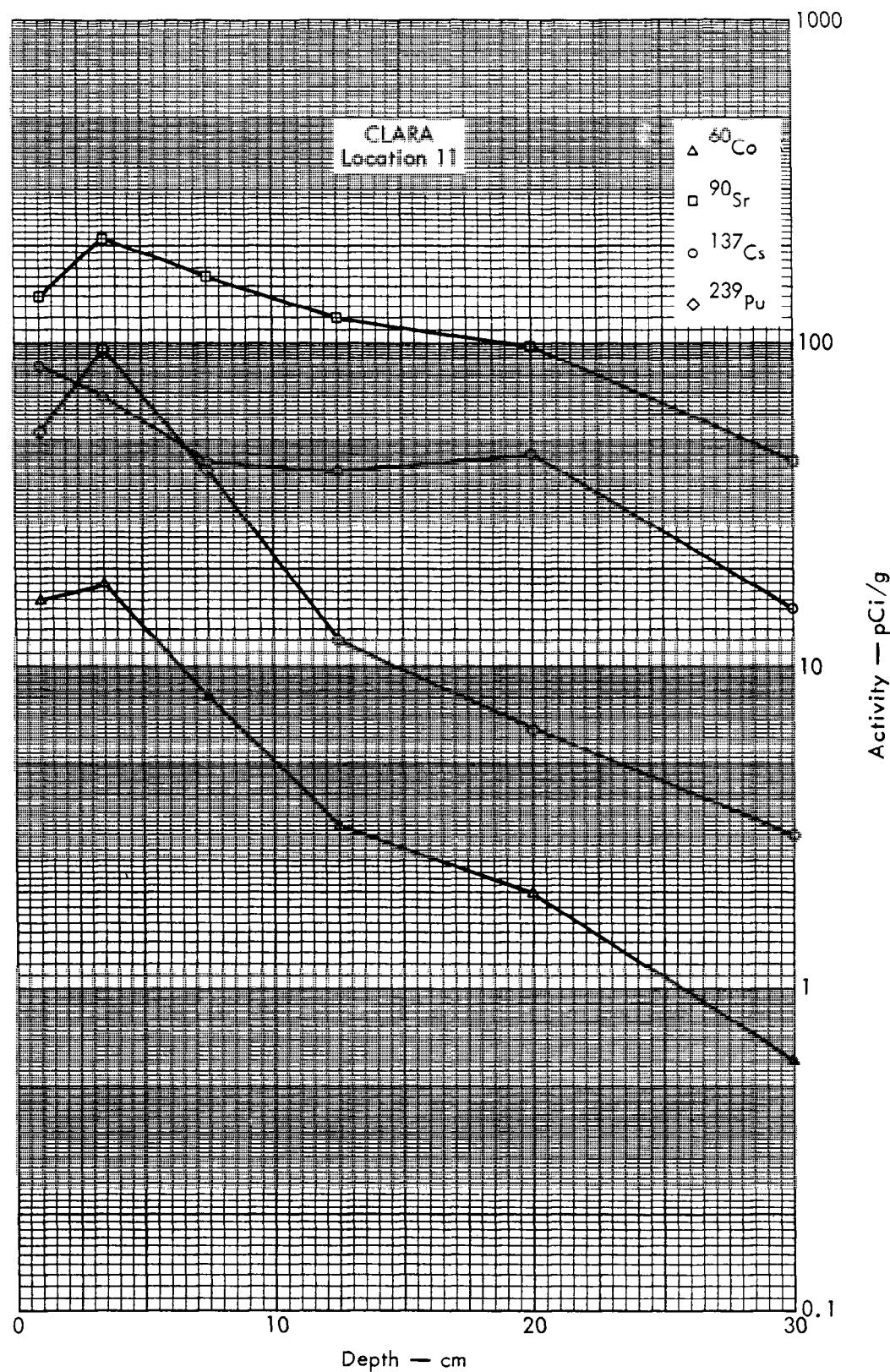


Fig. B. 3. 2b. Activities of selected radionuclides as a function of soil depth.

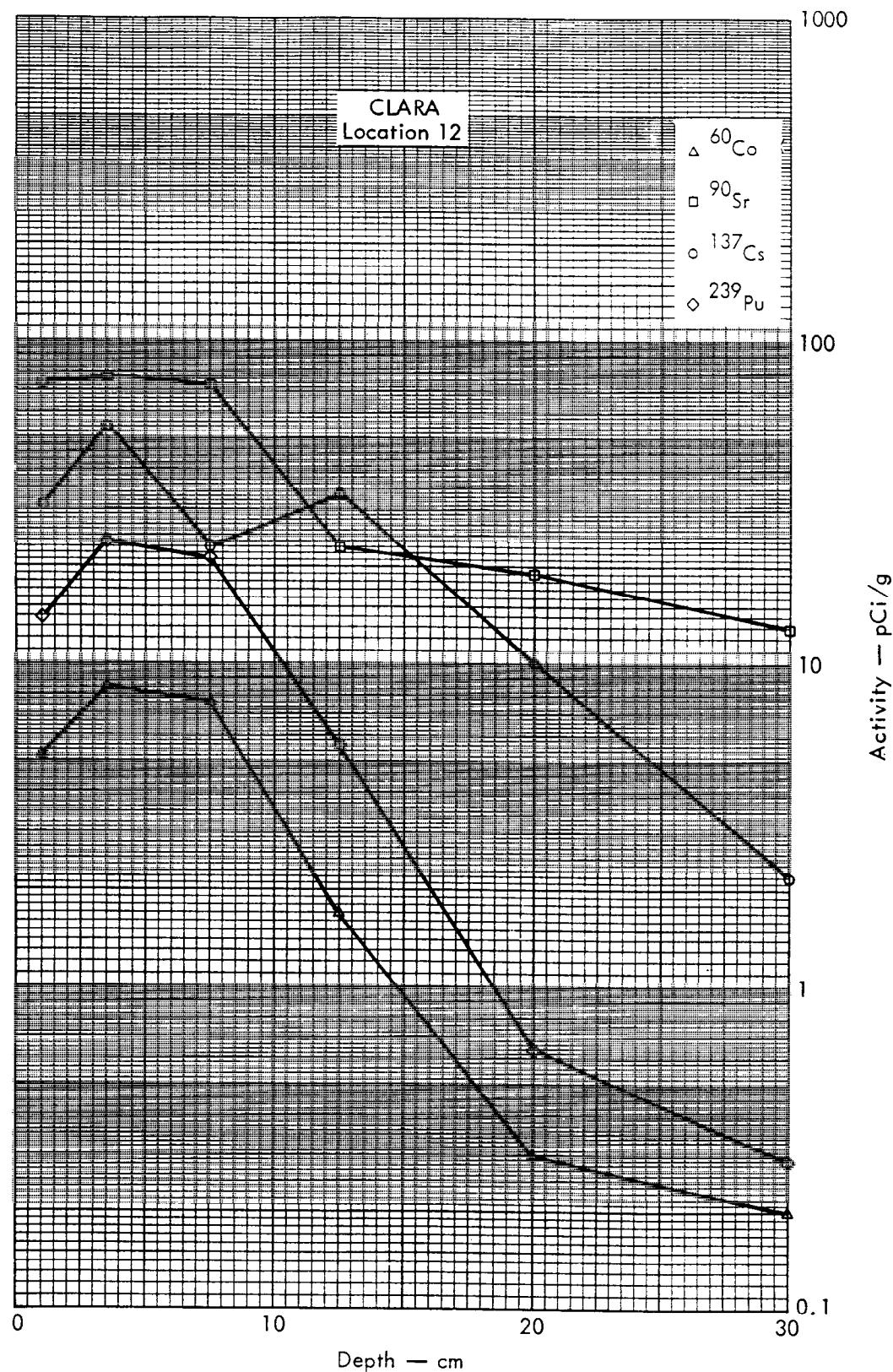


Fig. B.3.2c. Activities of selected radionuclides as a function of soil depth.

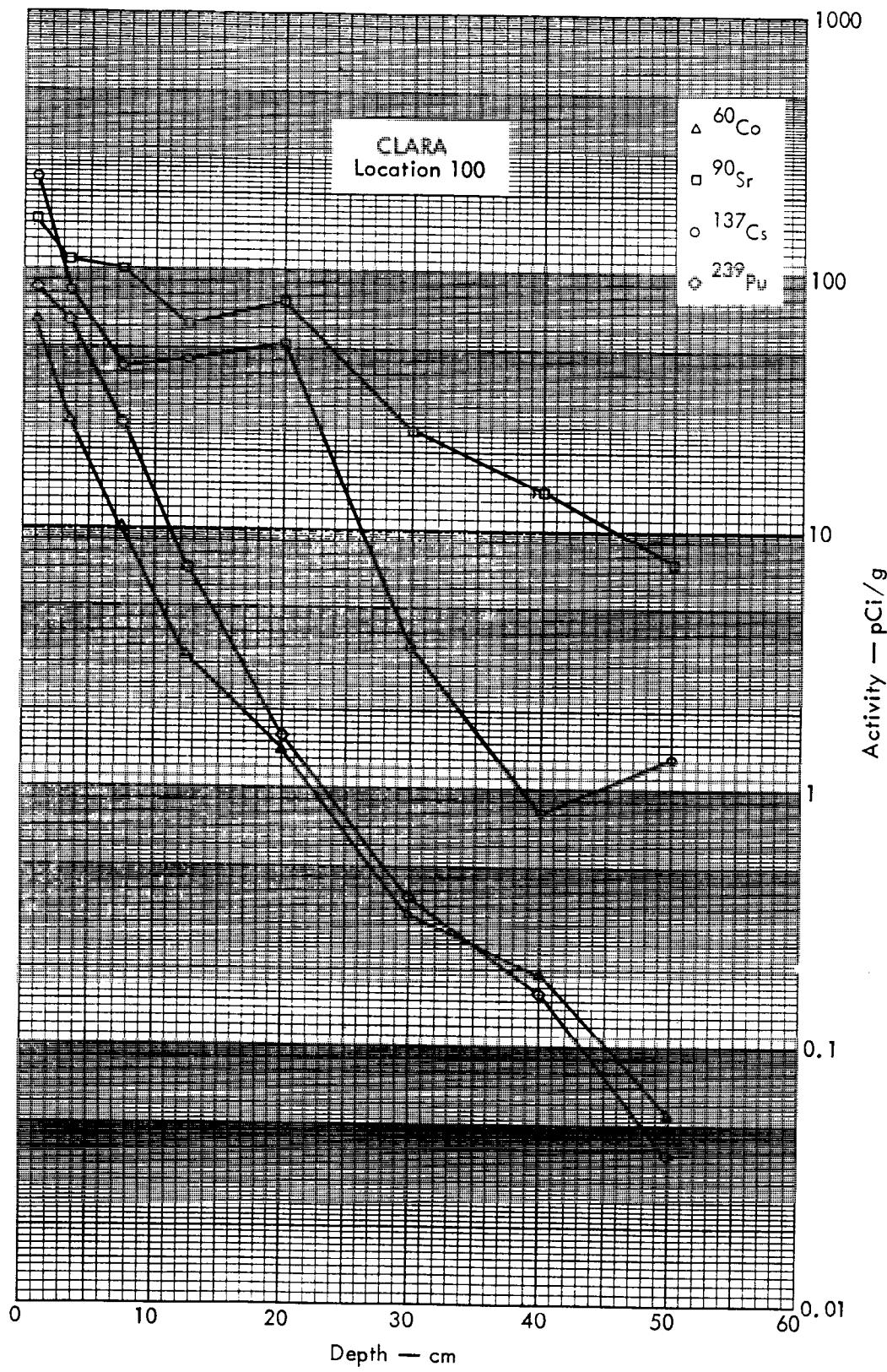


Fig. B.3.2d. Activities of selected radionuclides as a function of soil depth.

100 METERS

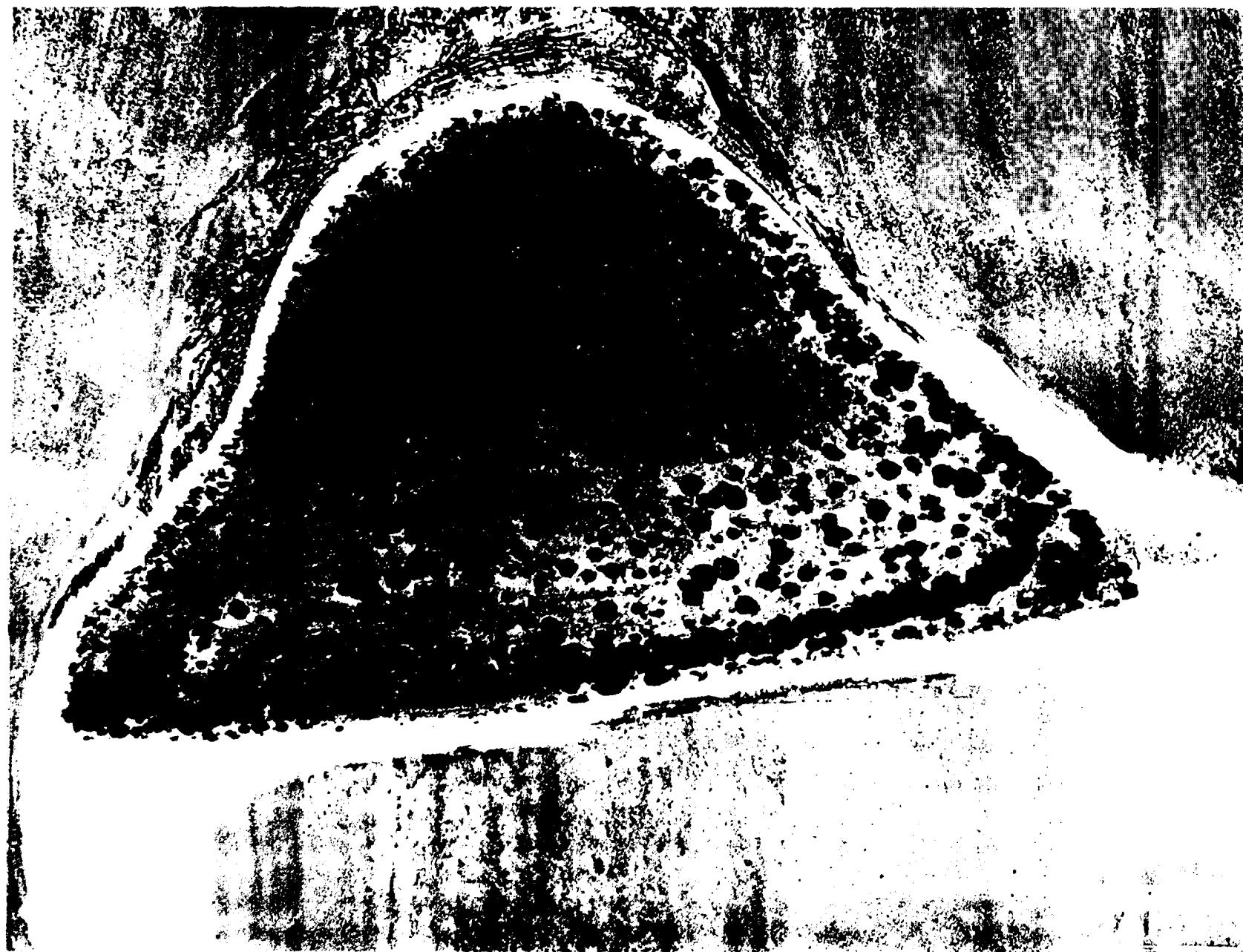


Fig. B.4.1.a.

100 METERS

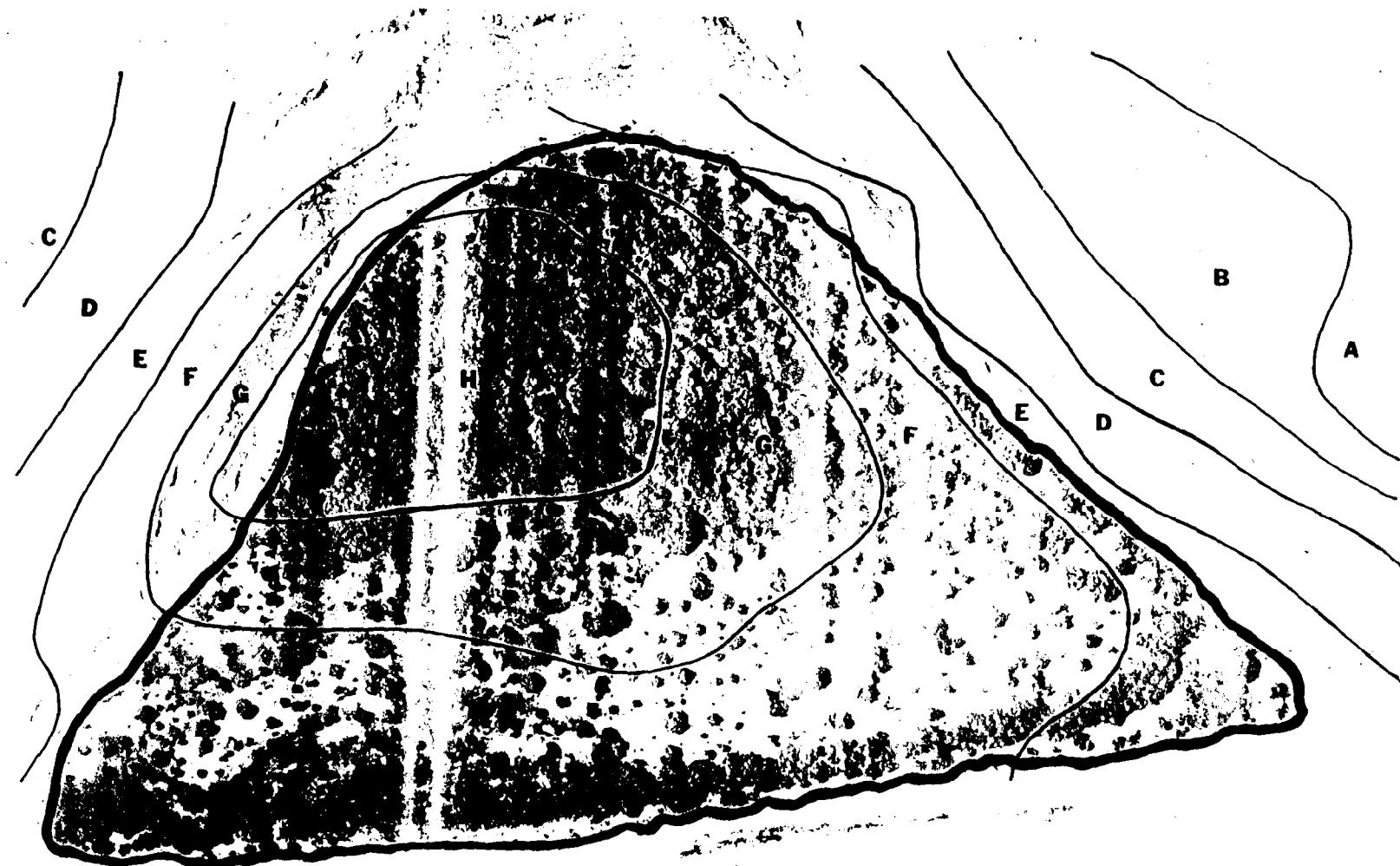


Fig. B.4.1.b. Gross count isoexposure contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

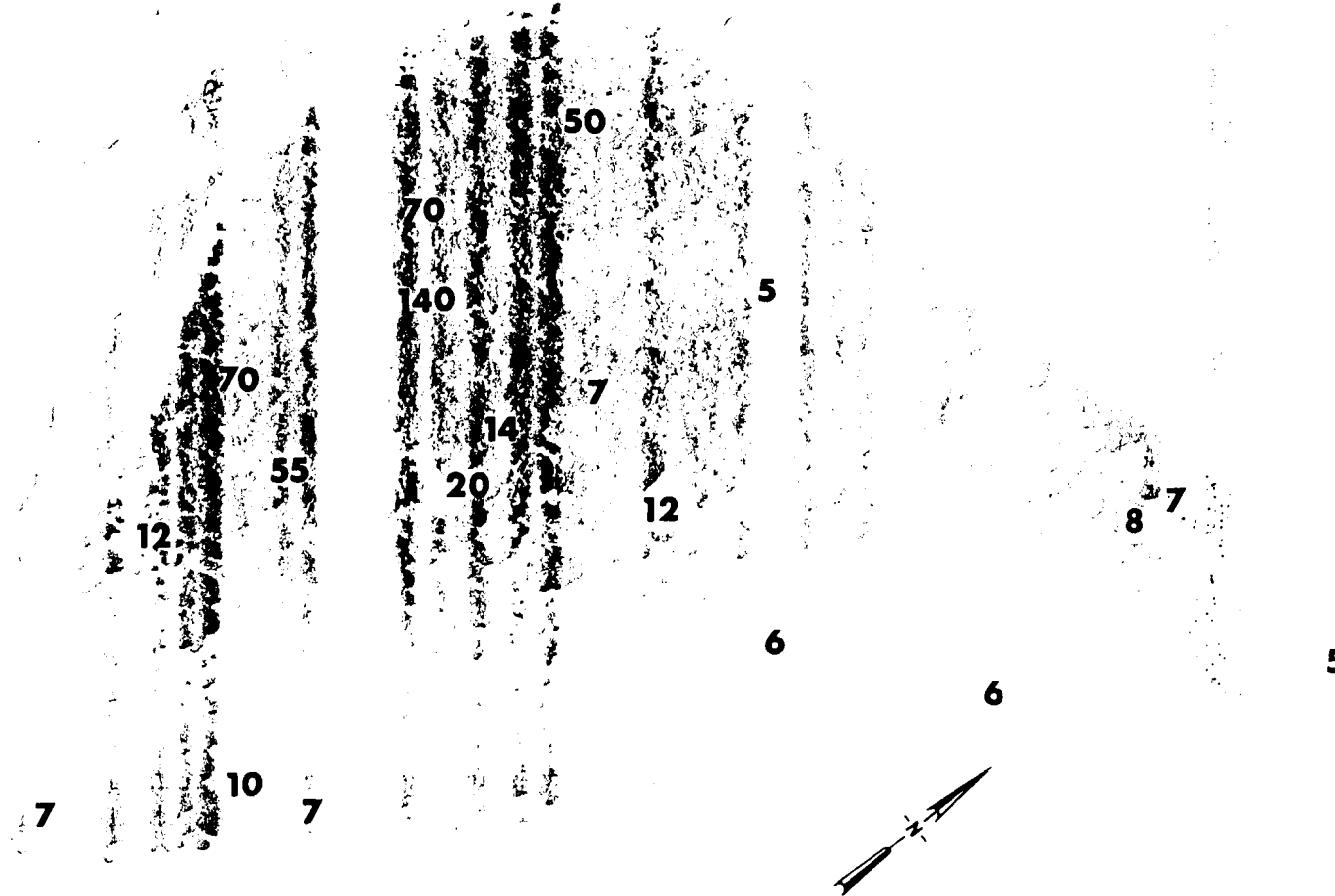
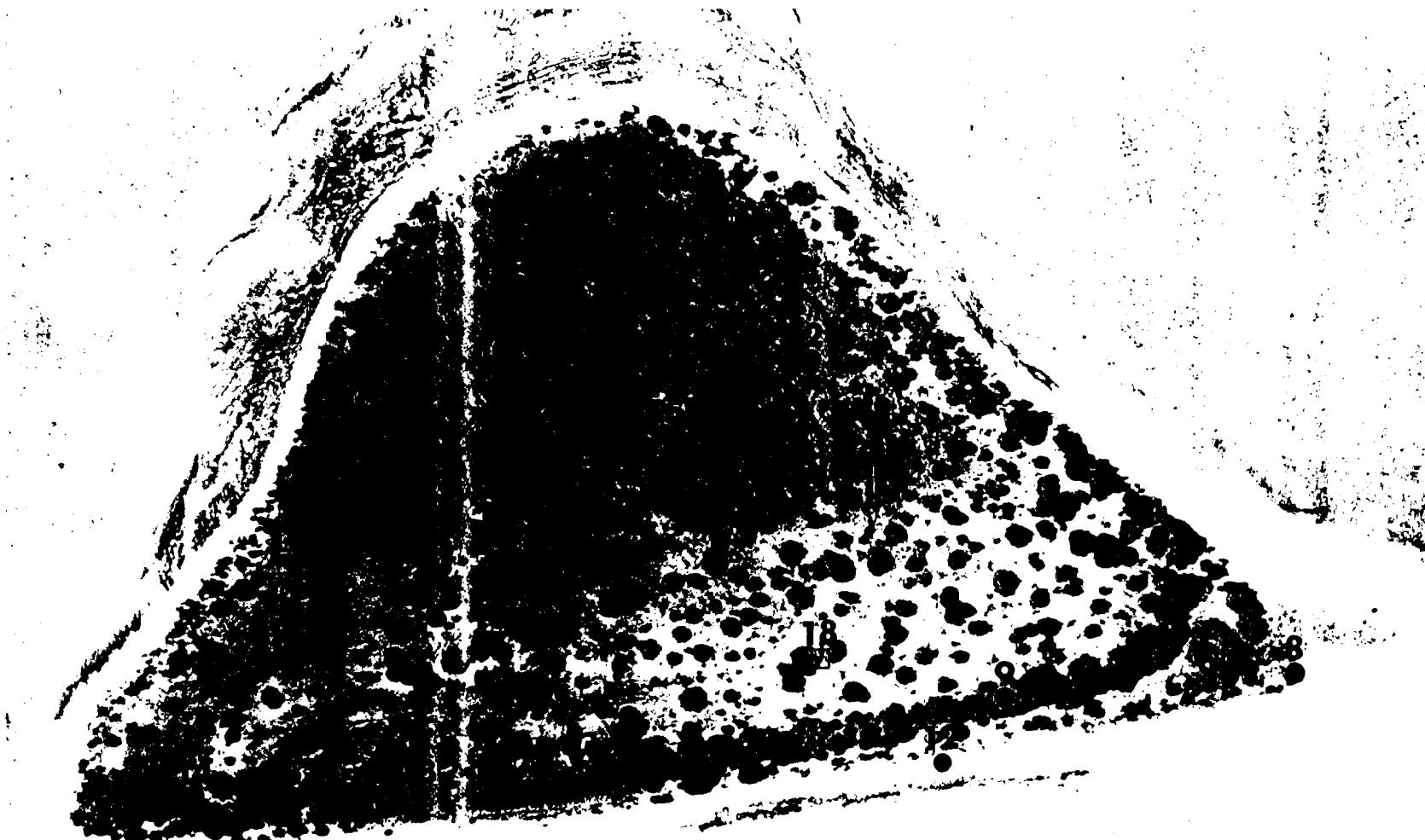


Fig. B.4.1.d. The gamma background exposure rate ( $\mu\text{R}/\text{hr}$ ) at 1 m above the ground, measured with a portable NaI scintillation counter.

100 METERS



- PROFILE SAMPLES (0-35 cm)
- PROFILE SAMPLES (0-65 cm)
- CORE SAMPLES (15 cm)

Fig. B.4.1.f. Soil-sample locations.

100 METERS

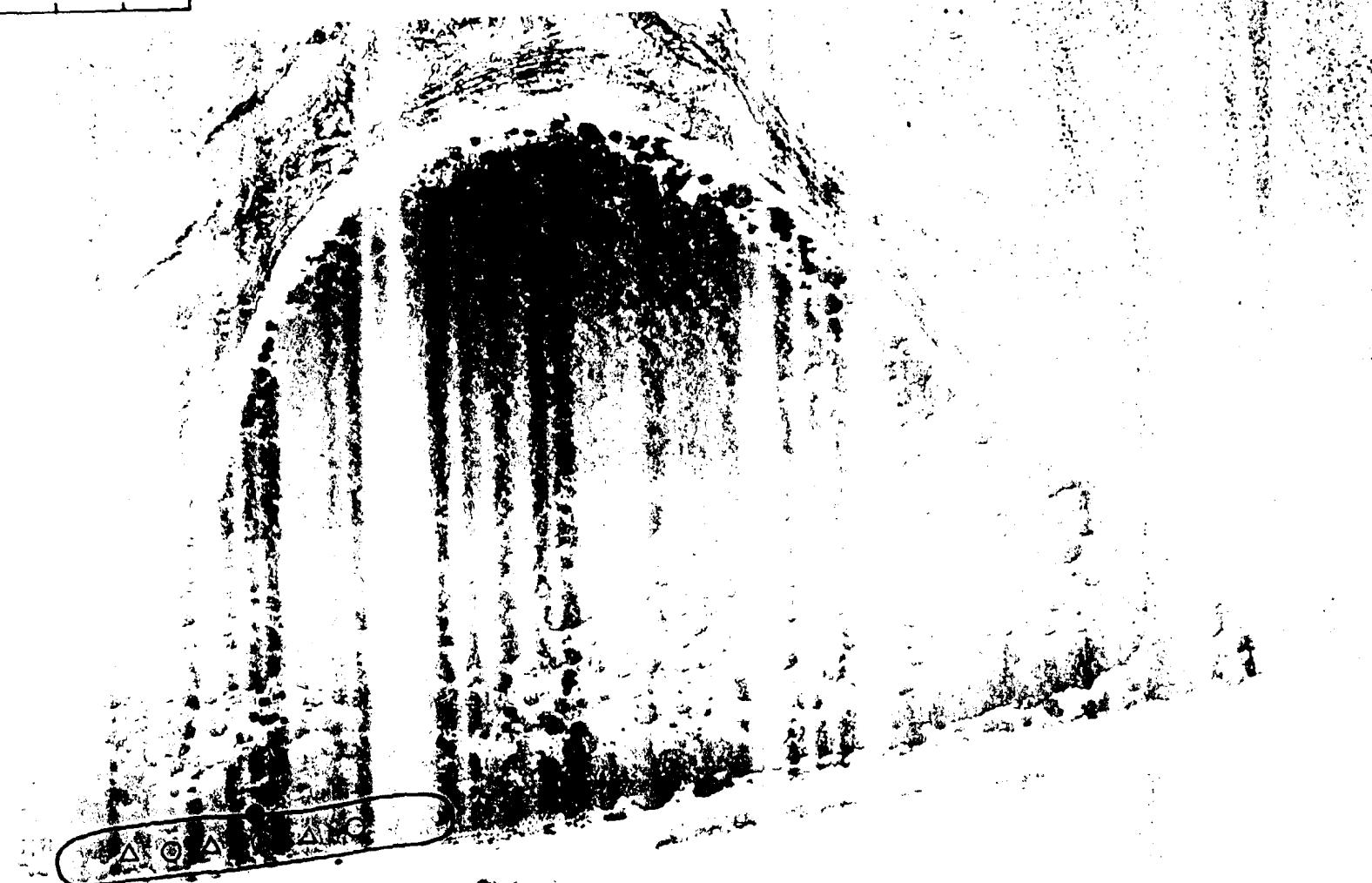


Fig. B.4.1.g. Vegetation sample locations.

100 METERS



Fig. B.4.1.h. The gamma-ray exposure rates ( $\mu\text{R}/\text{hr}$ ) measured 1 m above the ground by the LiF thermoluminescent dosimeters (TLD). The numbers shown in parentheses denote the location identification numbers.

100 METERS

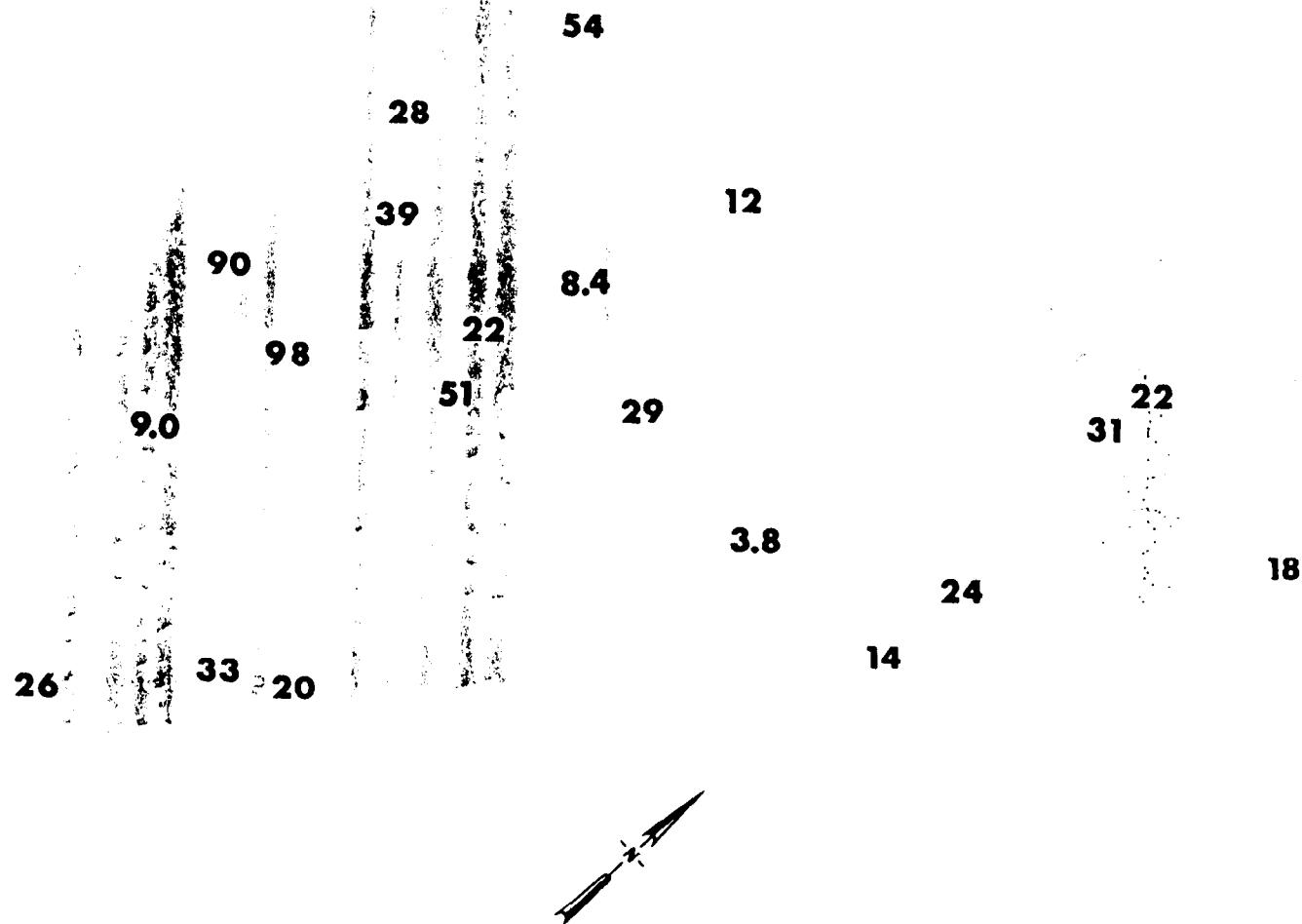


Fig. B.4.1.i. The average  $^{239}\text{Pu}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

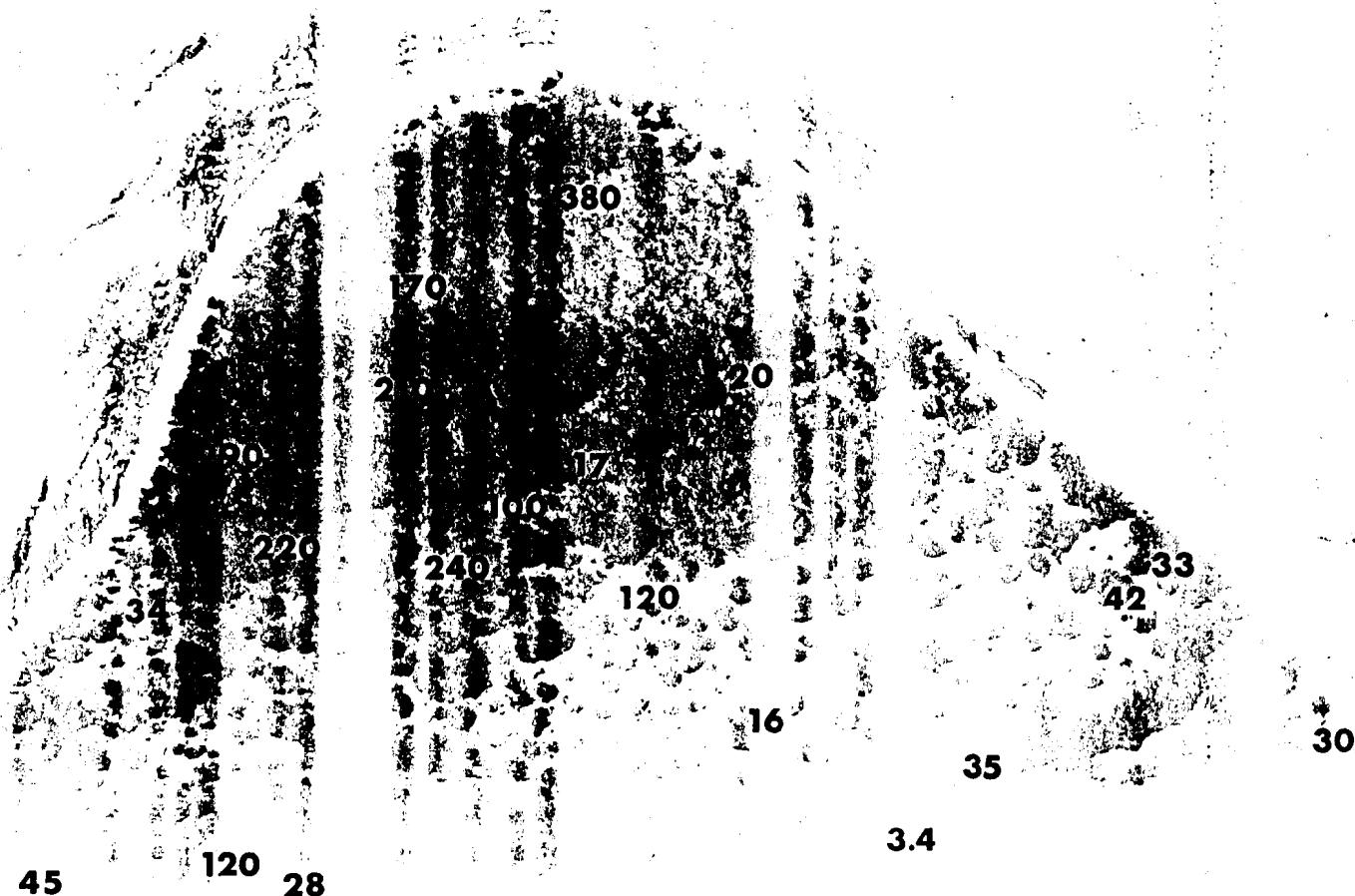


Fig. B.4.1.j. The average  $^{90}\text{Sr}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

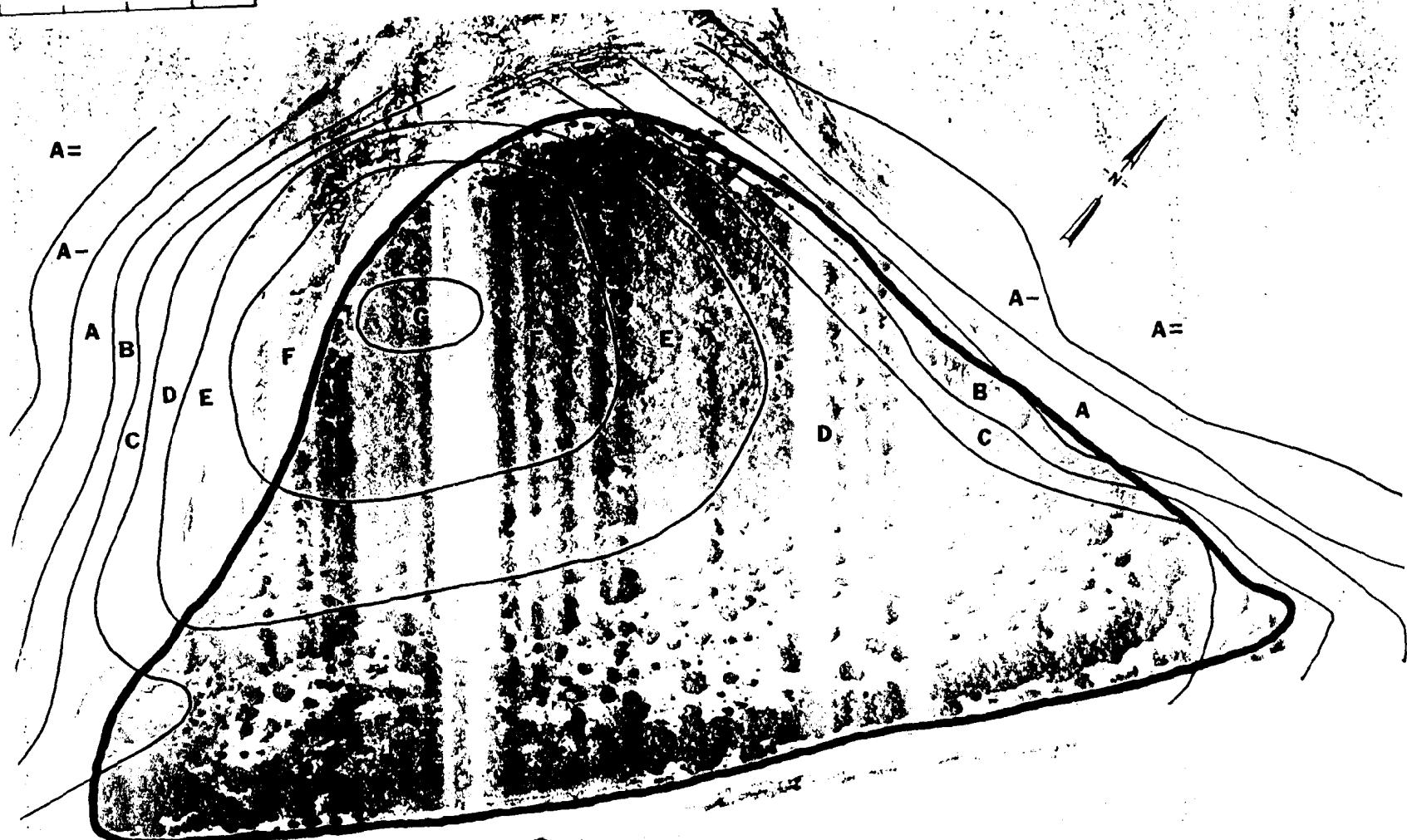


Fig. B.4.1.k.  $^{137}\text{Cs}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

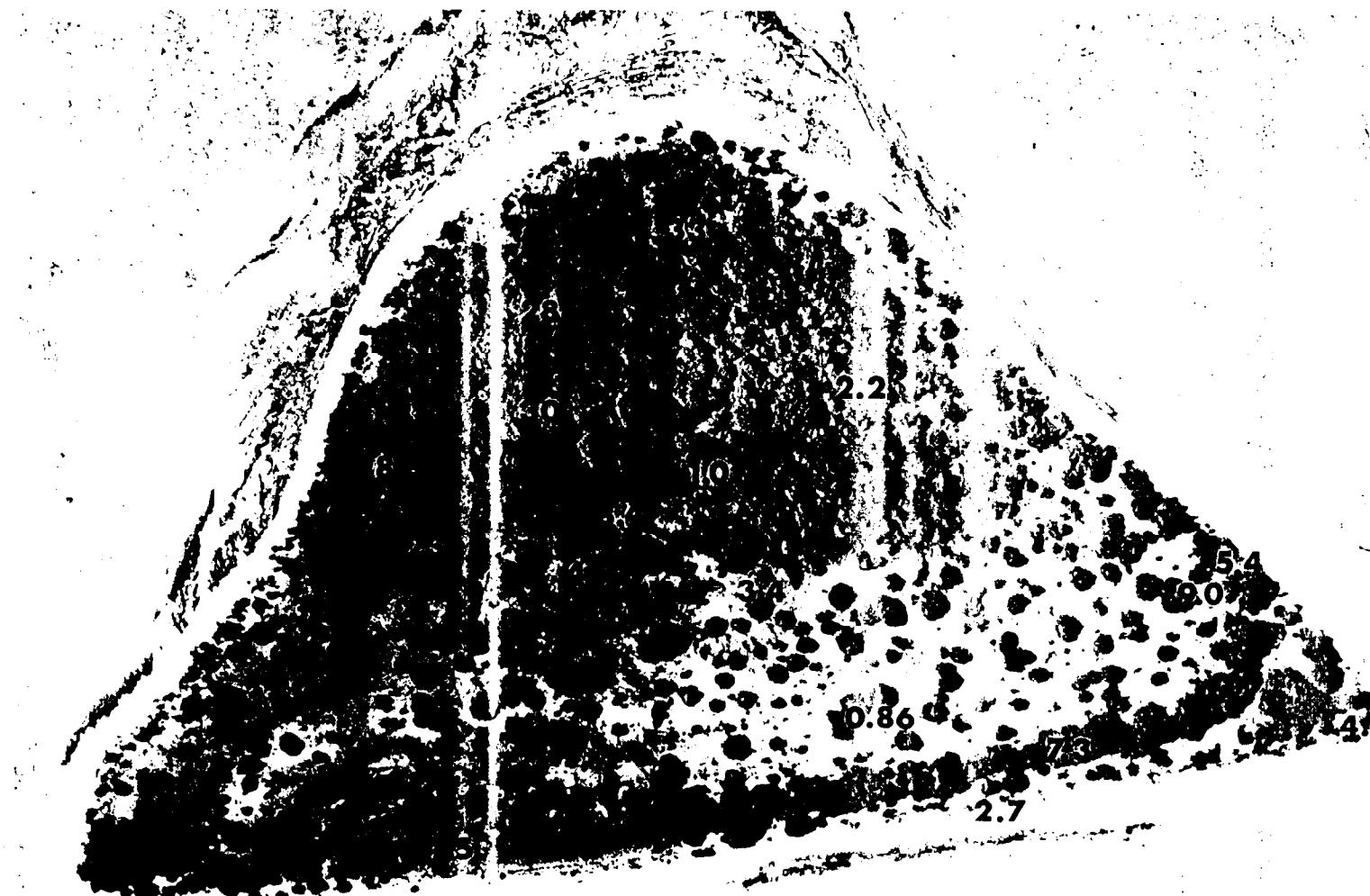


Fig. B.4.1.1. The average  $^{137}\text{Cs}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

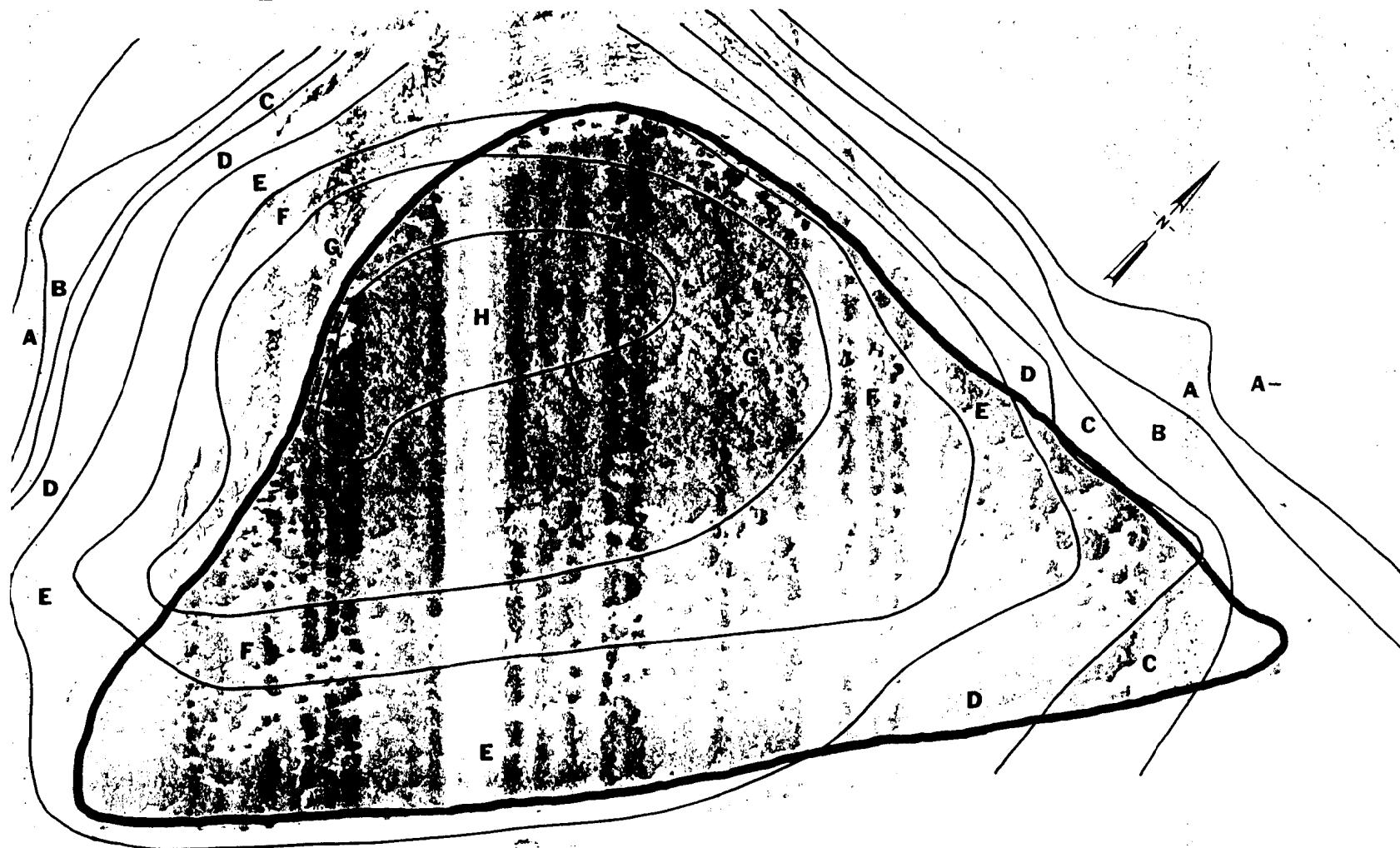


Fig. B.4.1.m.  $^{60}\text{Co}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

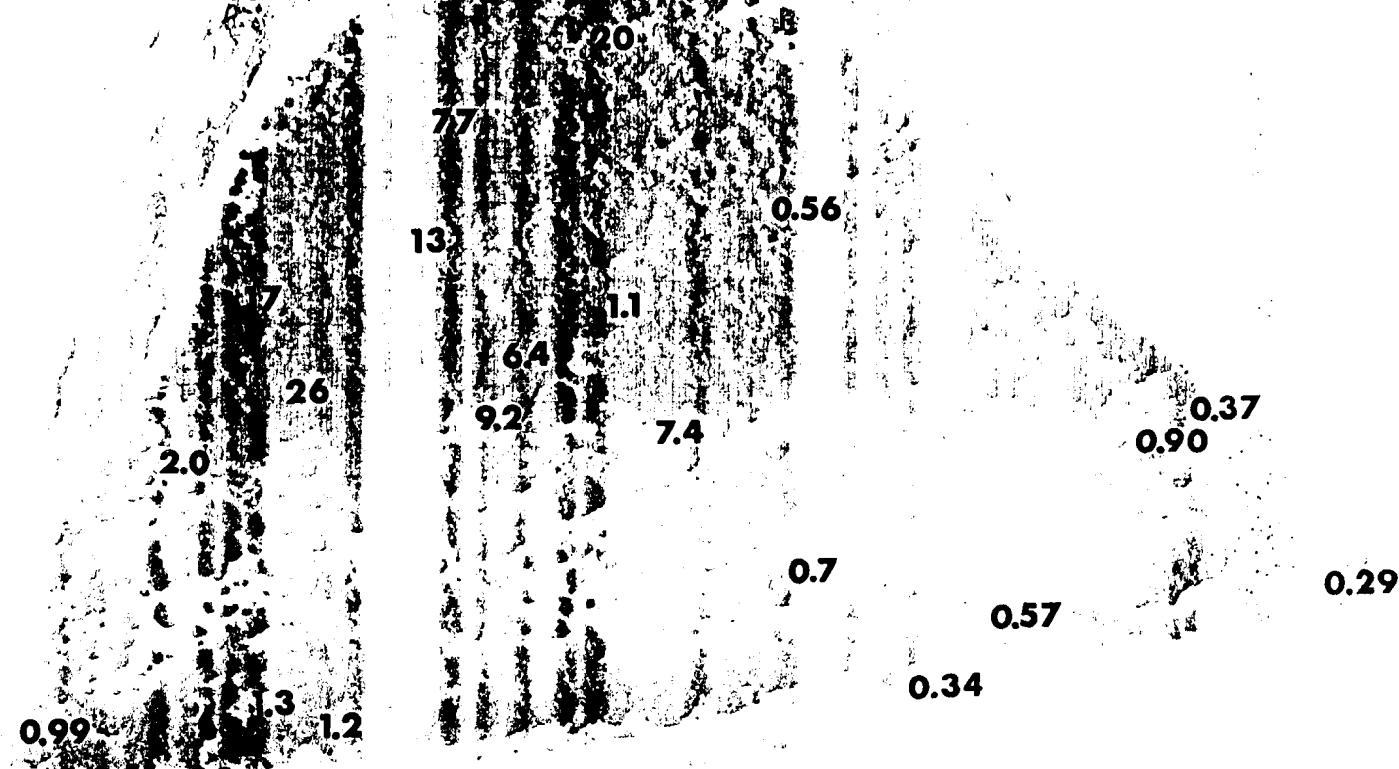


Fig. B.4.1.n. The average  $^{60}\text{Co}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

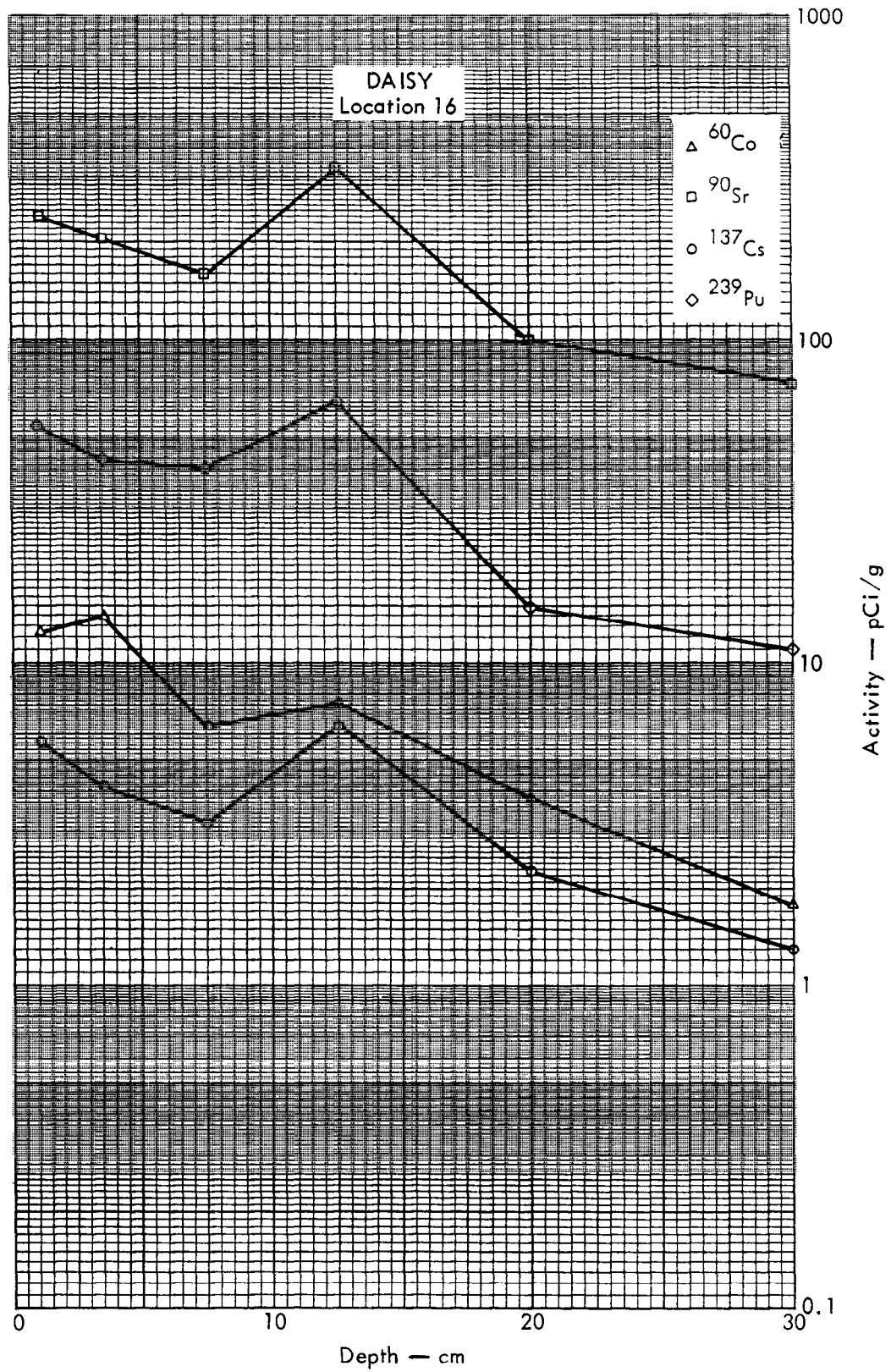


Fig. B.4.2a. Activities of selected radionuclides as a function of soil depth.

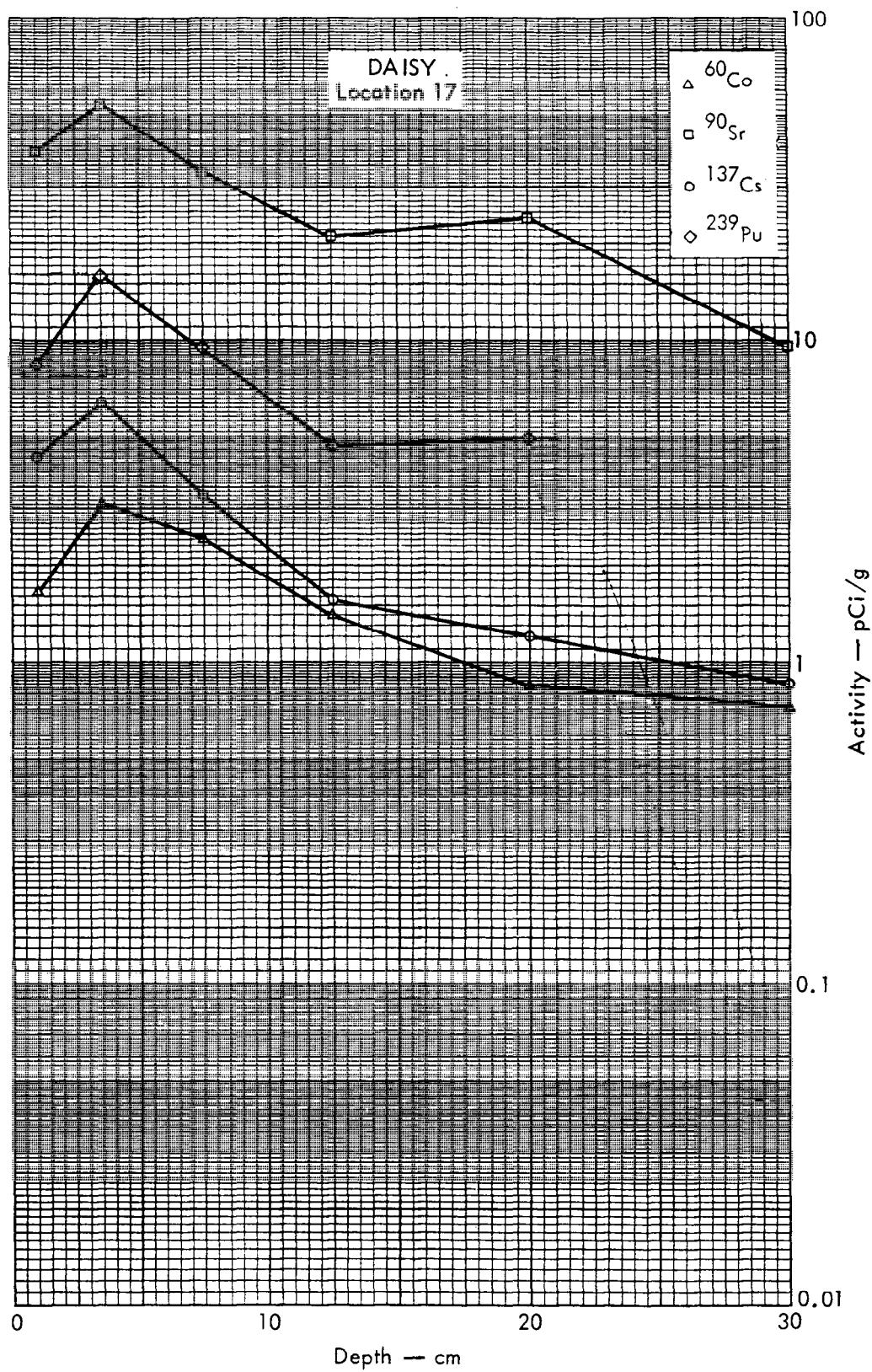


Fig. B.4.2b. Activities of selected radionuclides as a function of soil depth.

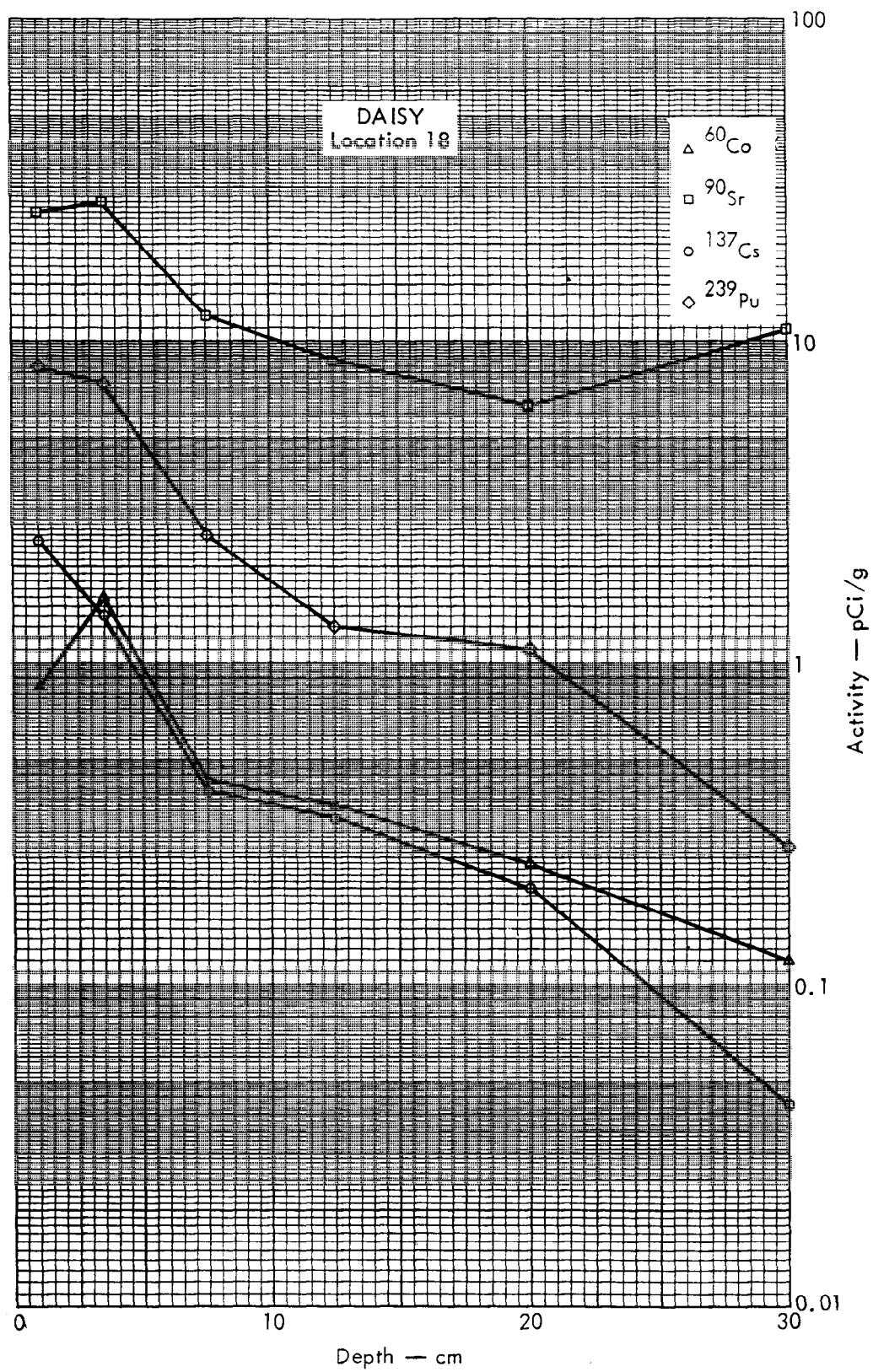


Fig. B. 4. 2c. Activities of selected radionuclides as a function of soil depth.

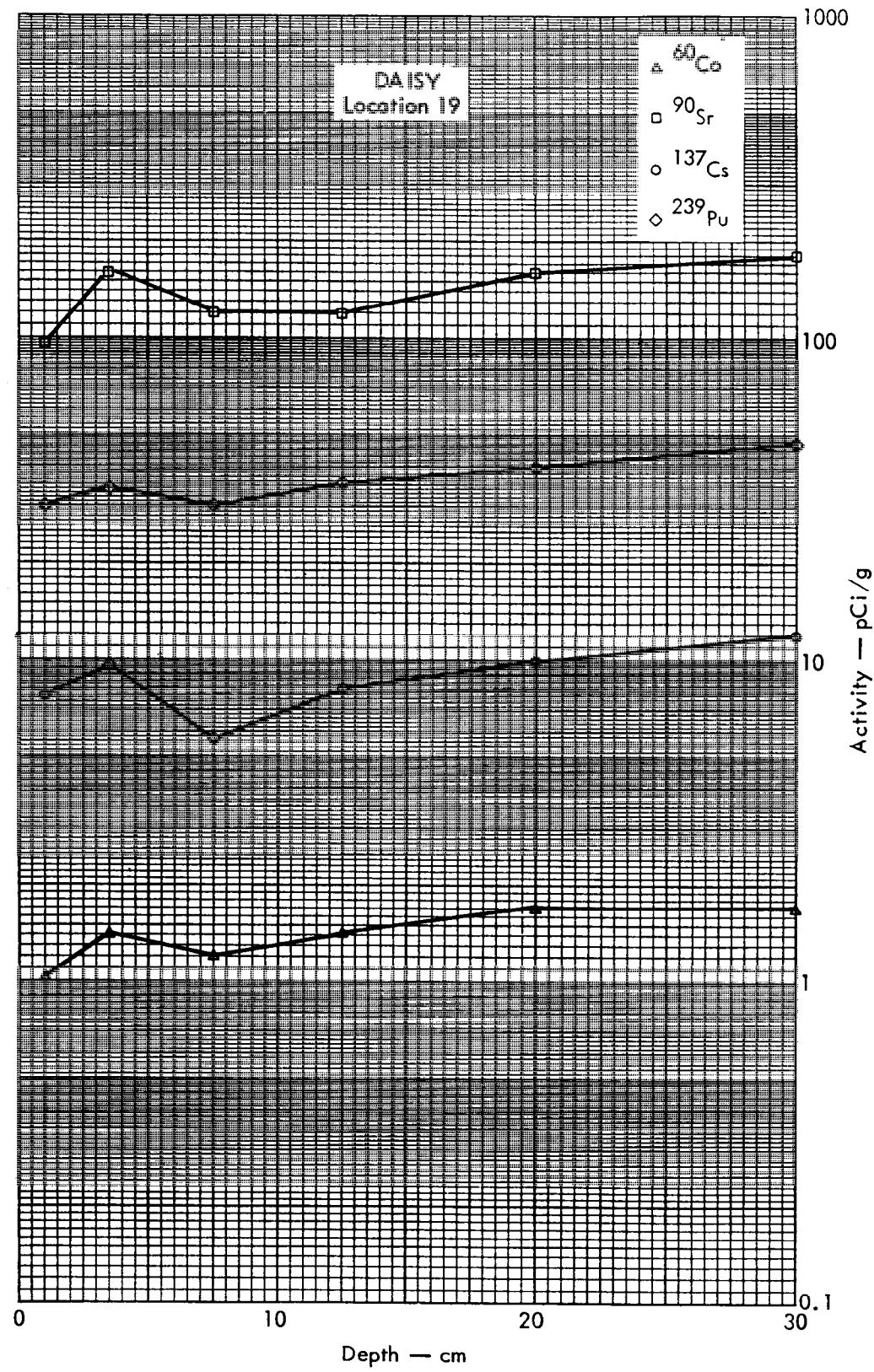


Fig. B. 4. 2d. Activities of selected radionuclides as a function of soil depth.

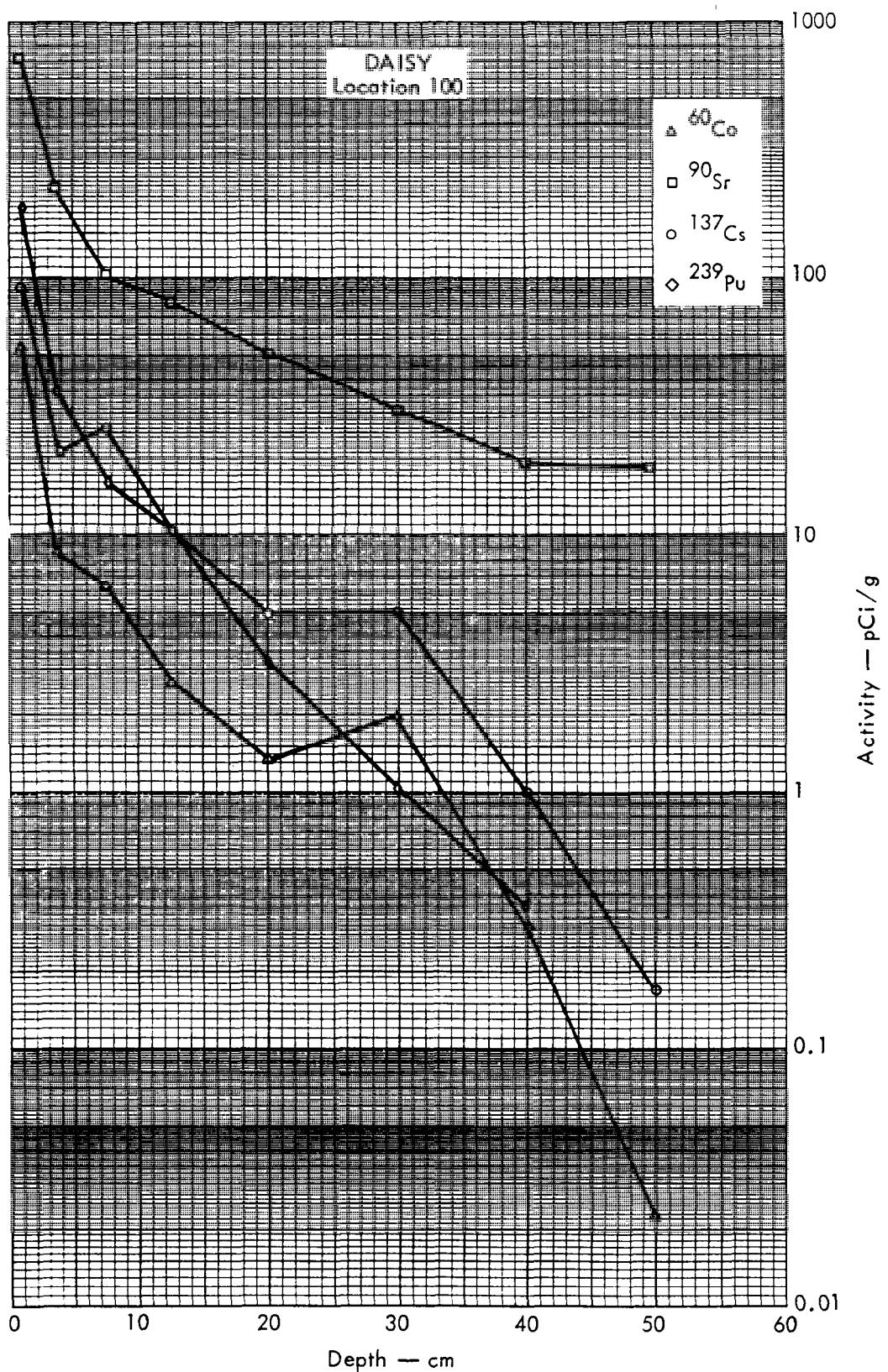


Fig. B.4.2e. Activities of selected radionuclides as a function of soil depth.

100 METERS

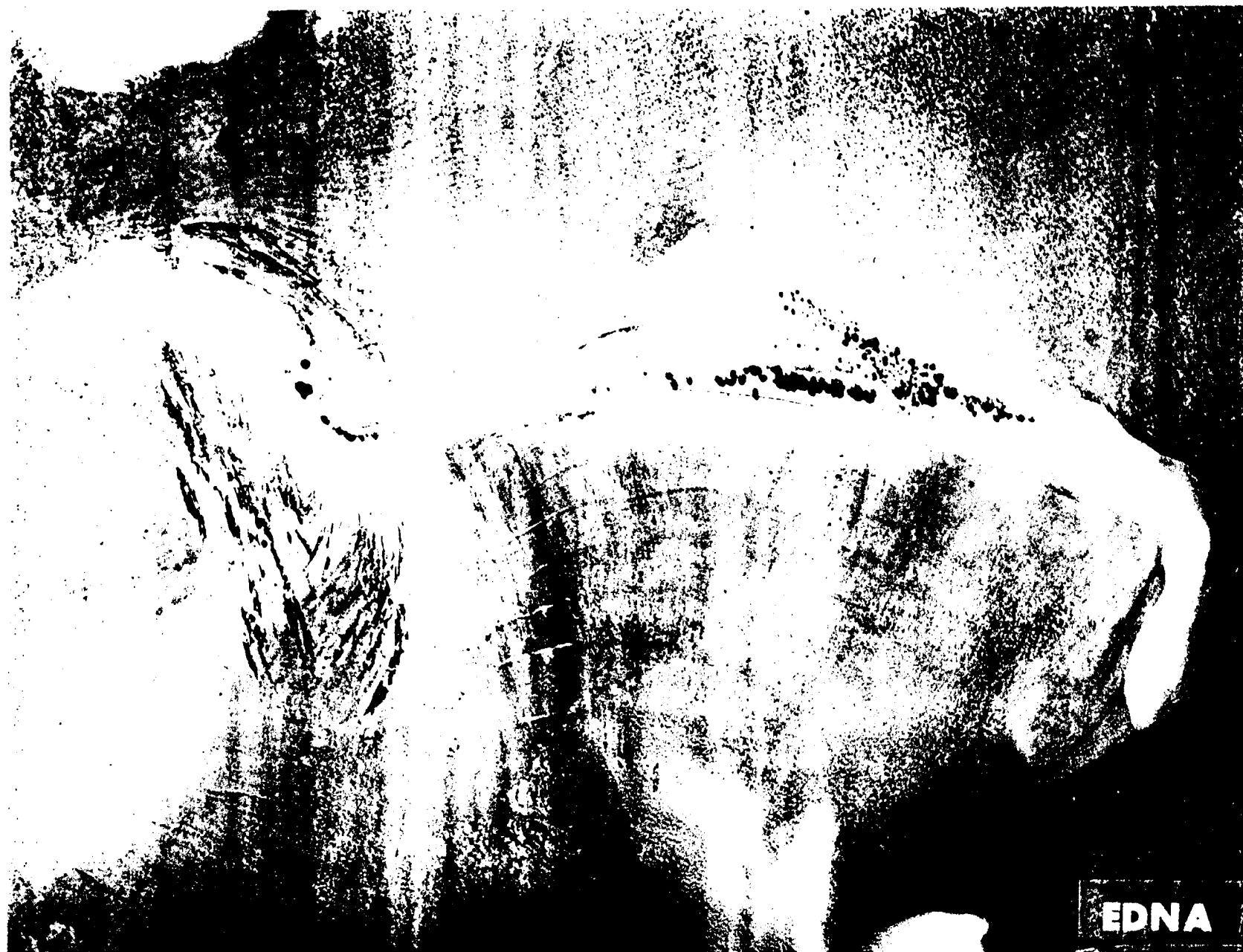


Fig. B.5.1.a.

100 METERS

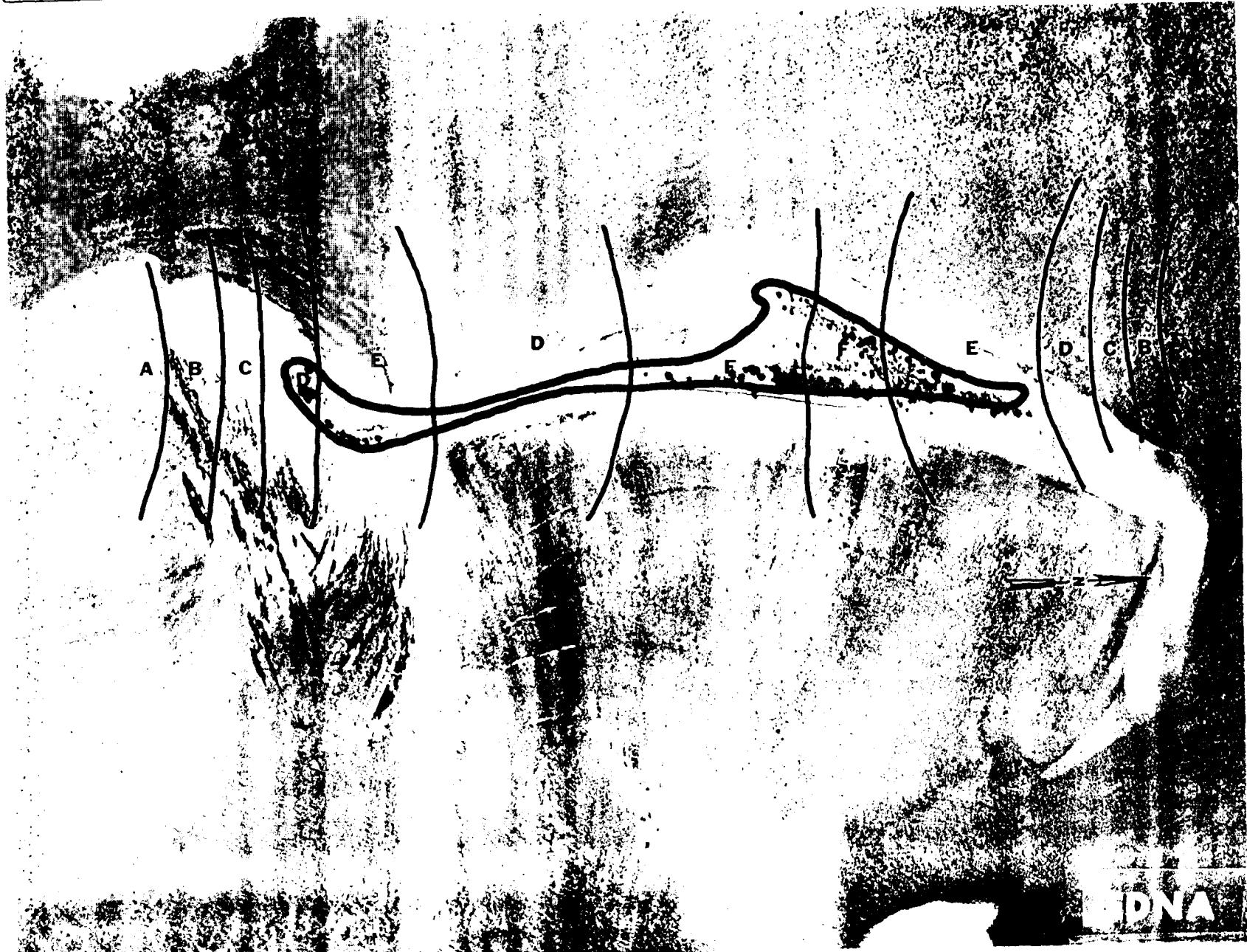


Fig. B.5.1.b. Gross count isoexposure contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

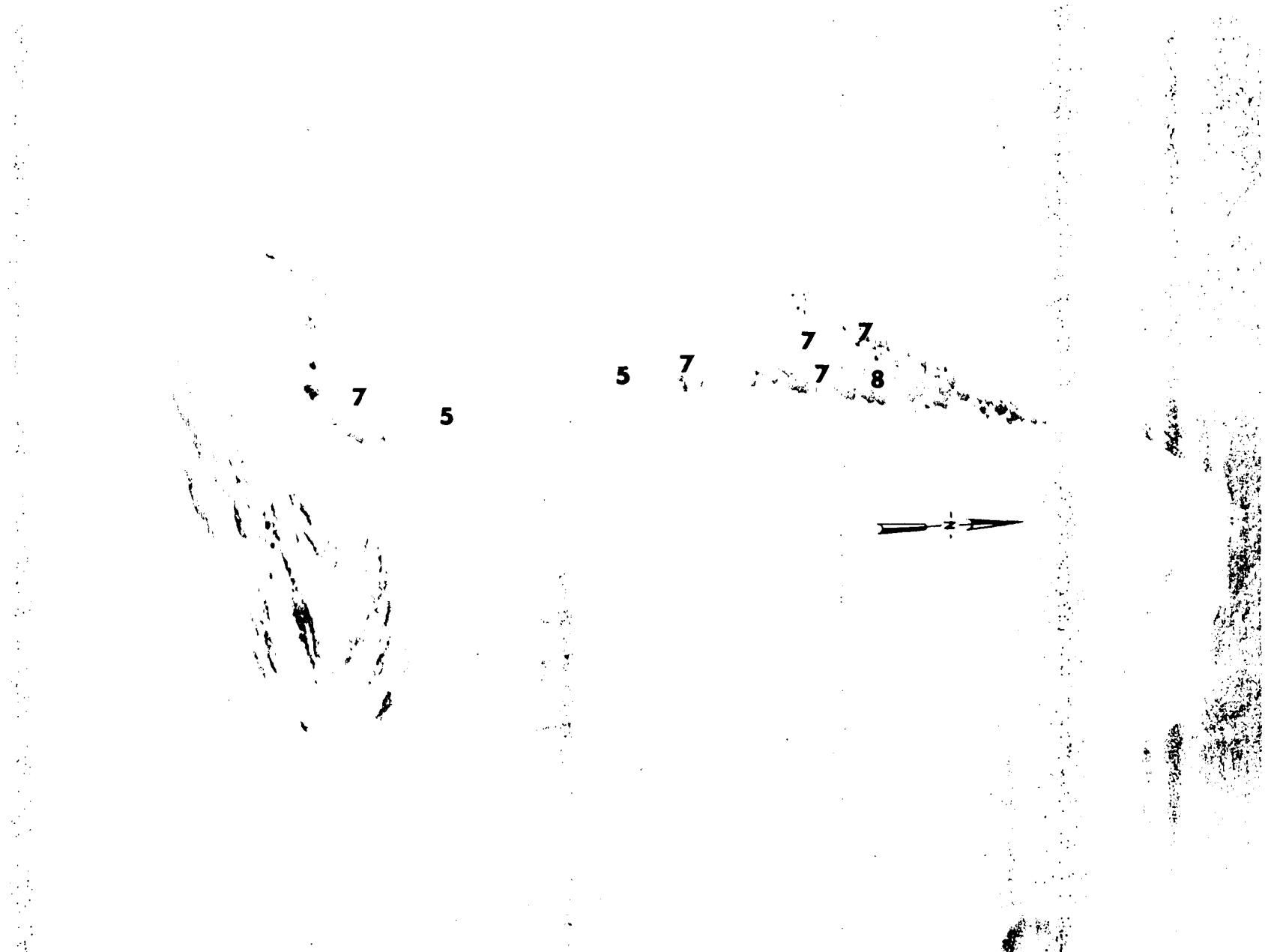
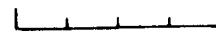


Fig. B.5.1.d. The gamma background exposure rate ( $\mu\text{R}/\text{hr}$ ) at 1 m above the ground, measured with a portable NaI scintillation counter.

100 METERS

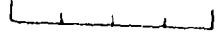


Fig. B.5.1.f. Soil-sample locations.

100 METERS



△ △ △ MESSERSCHMIDIA

Fig. B.5.1.g. Vegetation sample locations.

100 METERS



20 21 20 24 17 13 20 20

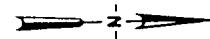


Fig. B.5.1.i. The average  $^{239}\text{Pu}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS



64  
36  
41 220  
44 30  
51 63

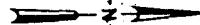


Fig. B.5.1.j. The average  $^{90}\text{Sr}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

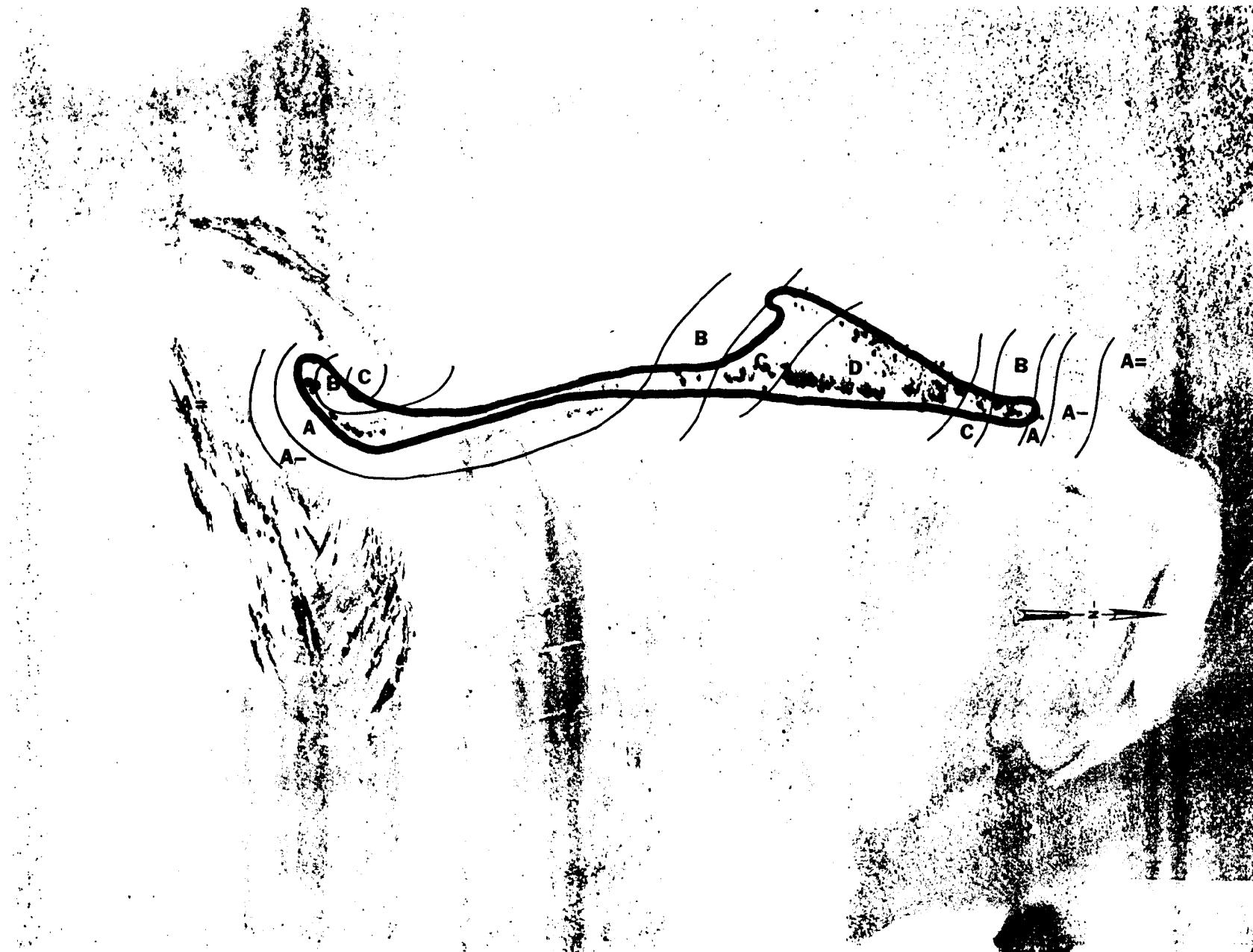


Fig. B.5.1.k.  $^{137}\text{Cs}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS



Fig. B.5.1.1. The average  $^{137}\text{Cs}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

100 METERS

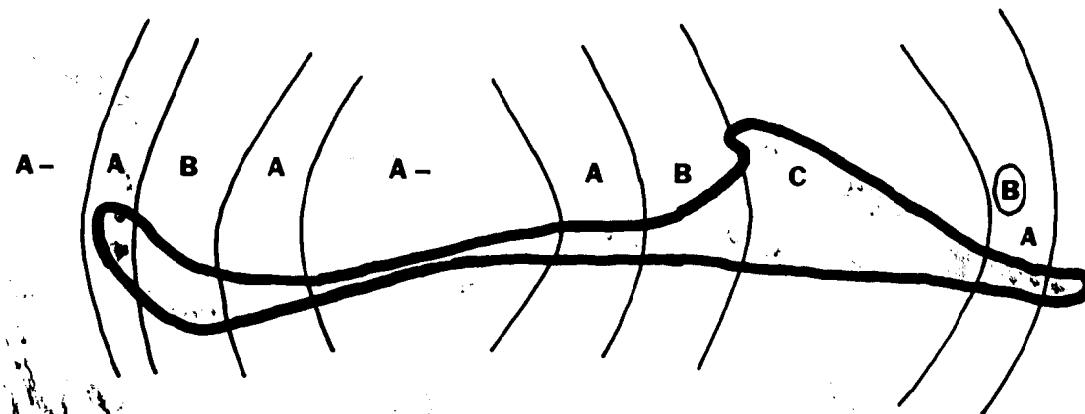


Fig. B.5.1.m.  $^{60}\text{Co}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

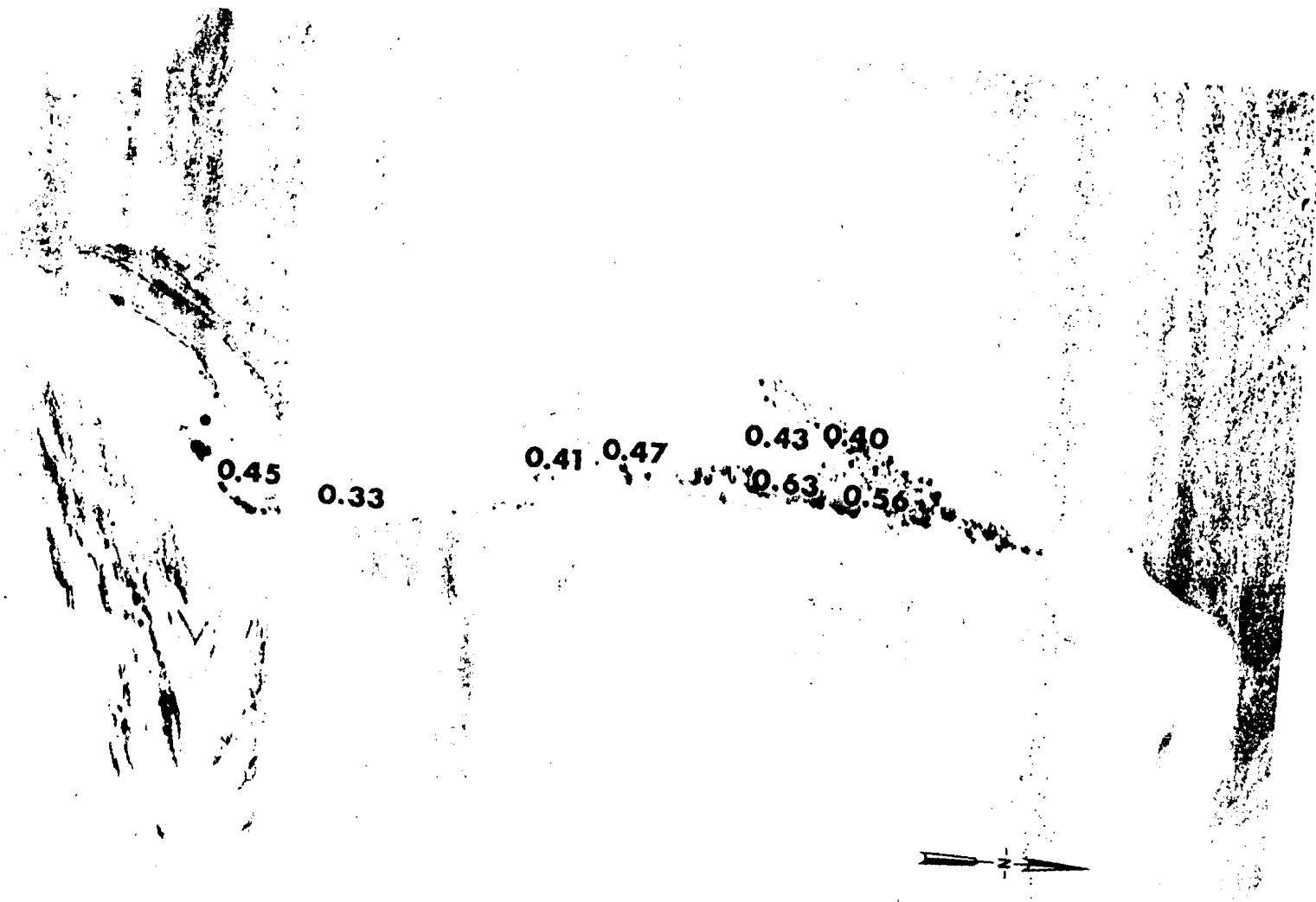
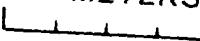


Fig. B.5.1.n. The average  $^{60}\text{Co}$  activities (pCi/g) in soil samples collected to a depth of 15 cm.

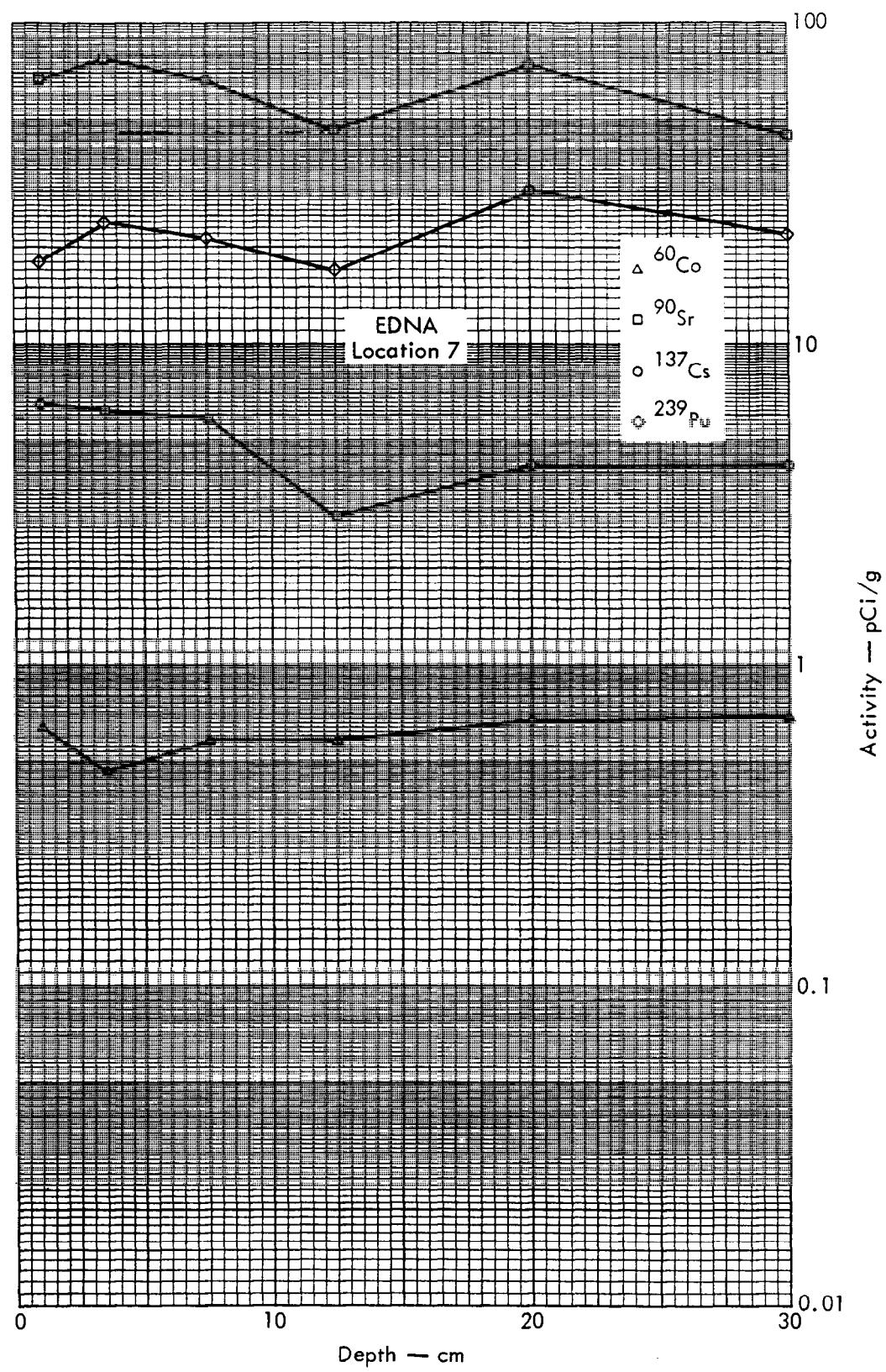


Fig. B.5.2a. Activities of selected radionuclides as a function of soil depth.

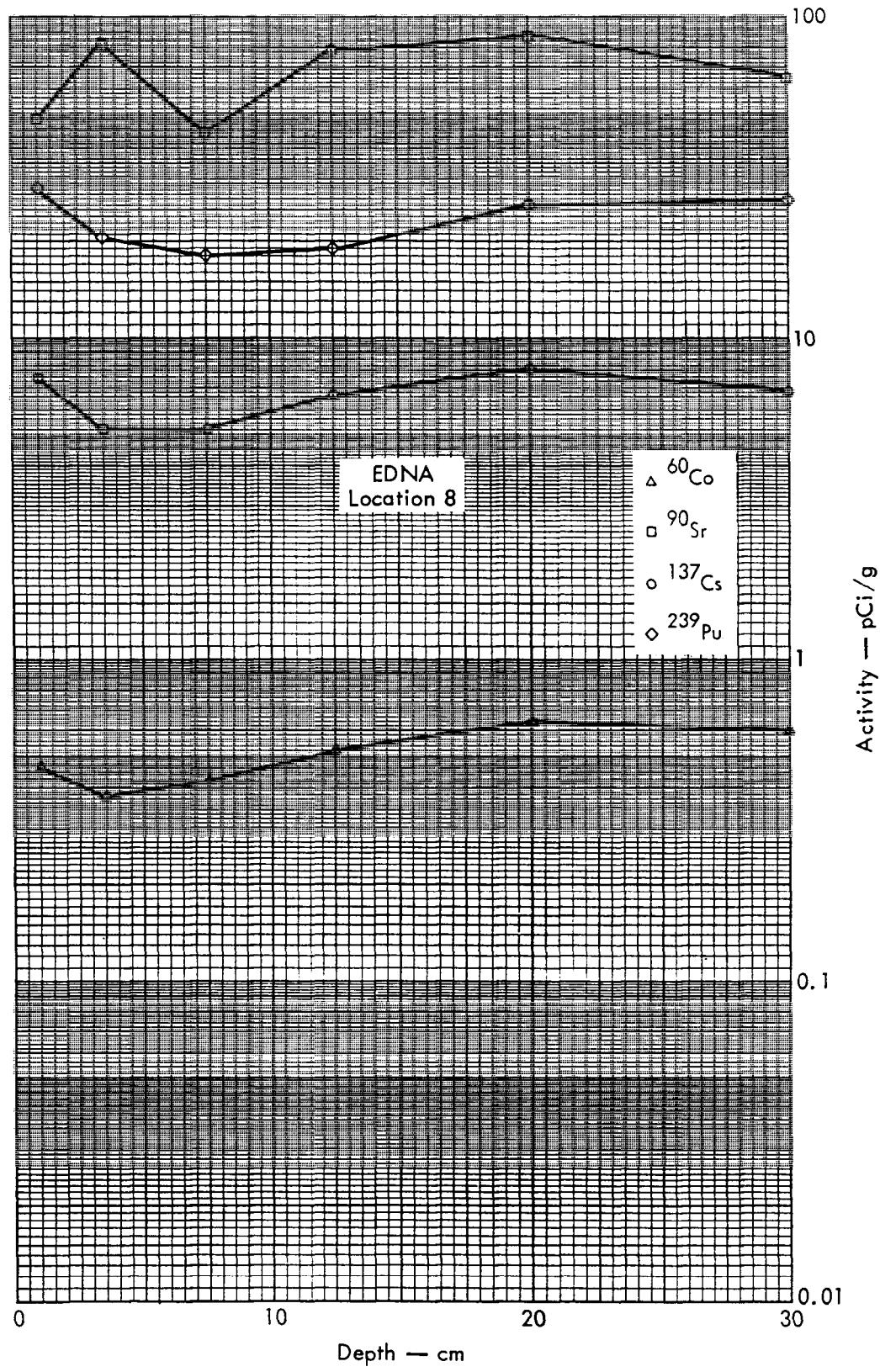


Fig. B. 5. 2b. Activities of selected radionuclides as a function of soil depth.

100 METERS



Fig. B.6.1.a.

100 METERS

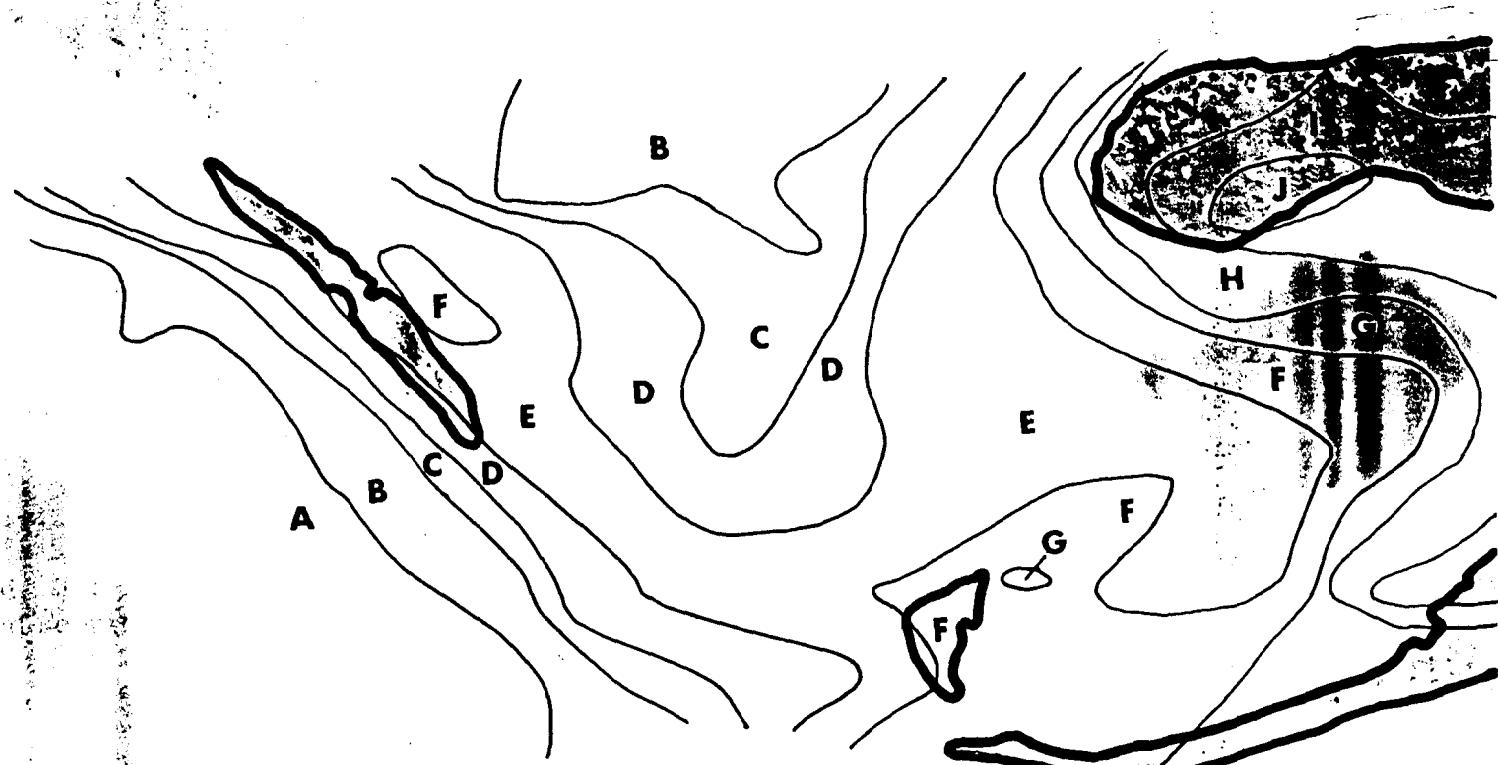


Fig. B.6.1.b. Gross count isoexposure contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS



4  
6  
5  
8

3

6

5

25

6

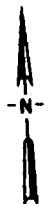
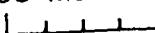
22

90  
20  
22

10  
45  
25  
12  
65  
65  
20

Fig. B.6.1.d. The gamma background exposure rate ( $\mu\text{R}/\text{hr}$ ) at 1 m above the ground, measured with a portable NaI scintillation counter.

100 METERS



42

41

40

38

37

36

35

SAMPLES (0-35)

SAMPLES (0-65 cm)

SAMPLES (0-185 cm)

SAMPLES (15 cm)



Fig. B.6.1.f. Soil-sample locations.

100 METERS

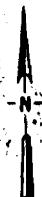
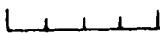


Fig. B.6.1.g. Vegetation sample locations.

100 METERS  
[Scale Bar]

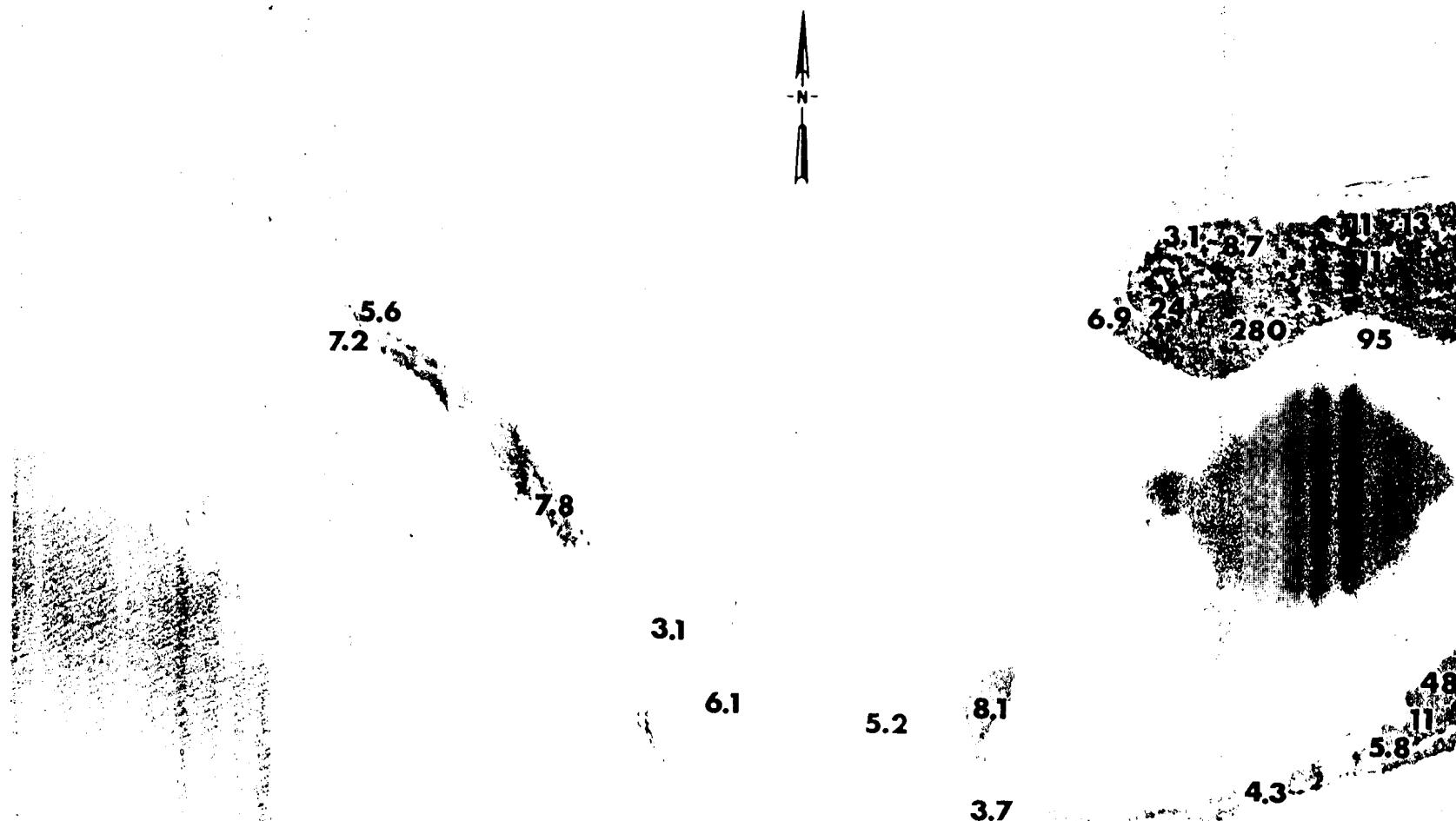


Fig. B.6.1.i. The average  $^{239}\text{Pu}$  activities (pCi/gm) in soil samples collected to a depth of 15 cm.

100 METERS

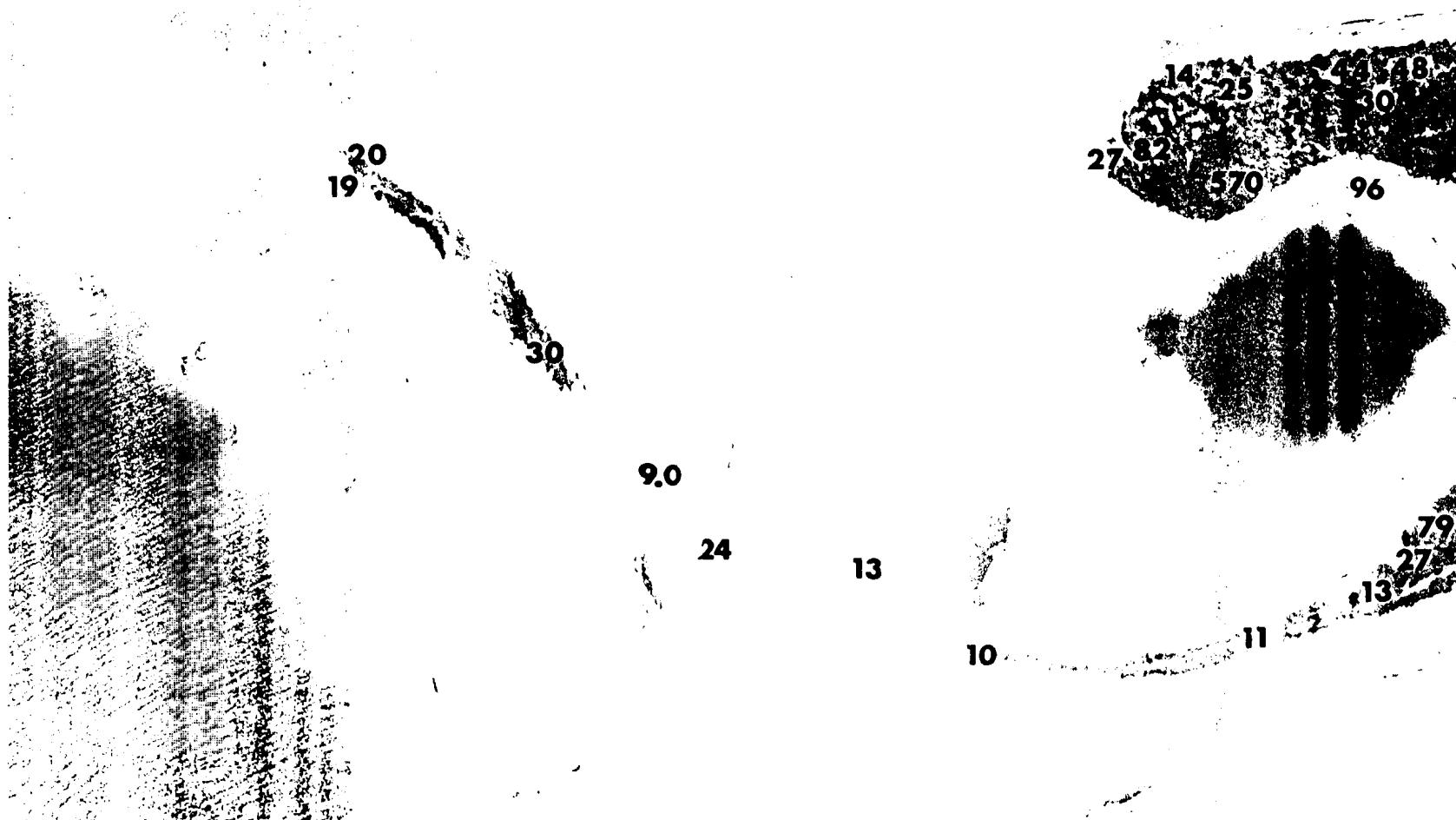
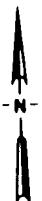


Fig. B.6.1.j. The average <sup>90</sup>Sr activities (pCi/gm) in soil samples collected to a depth of 15 cm.

100 METERS



Fig. B.6.1.k.  $^{137}\text{Cs}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

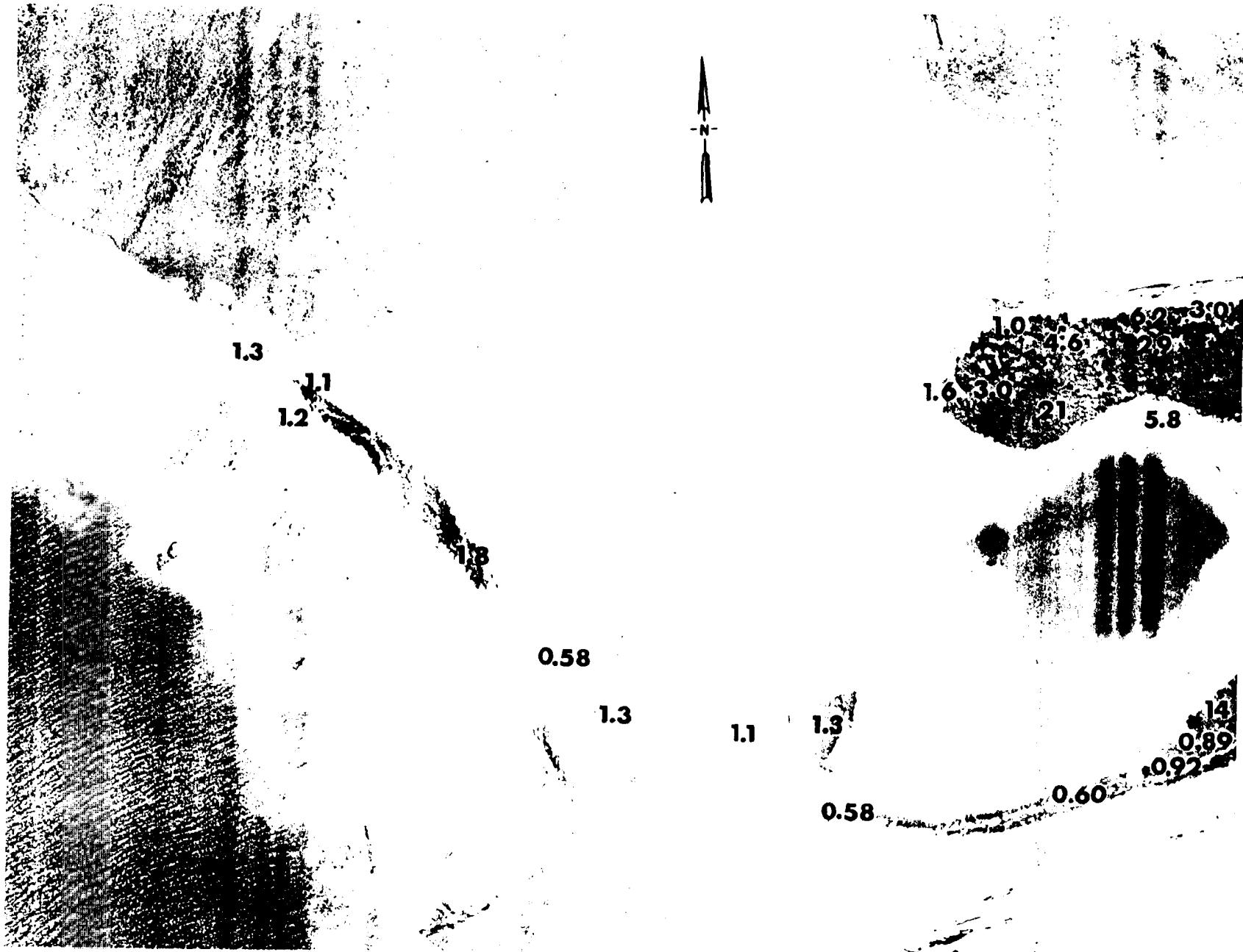
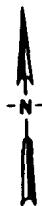


Fig. B.6.1.1. The average  $^{137}\text{Cs}$  activities (pCi/gm) in soil samples collected to a depth of 15 cm.

100 METERS



Fig. B.6.1.m.  $^{60}\text{Co}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

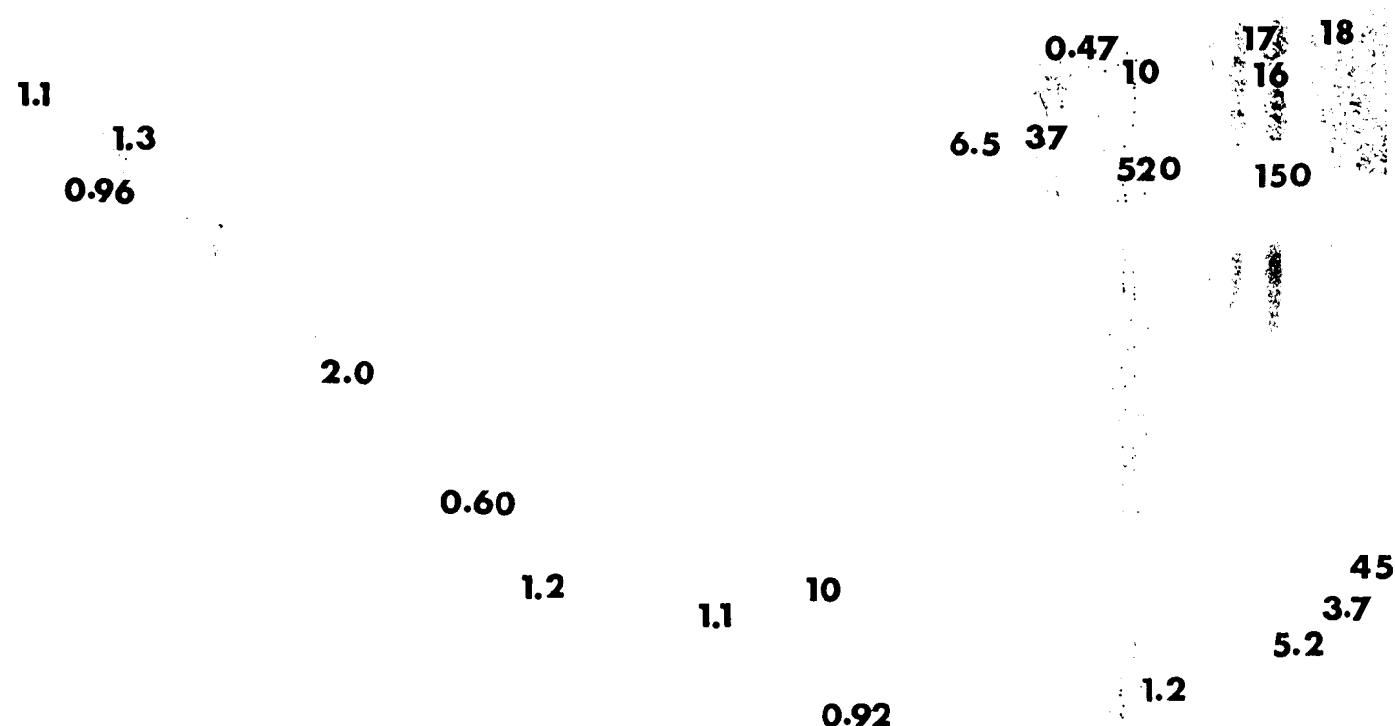
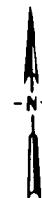


Fig. B.6.1.n. The average  $^{60}\text{Co}$  activities (pCi/gm) in soil samples collected to a depth of 15 cm.

100 METERS

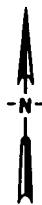
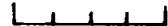


Fig. B.6.1.o. Terrestrial animal sample locations.

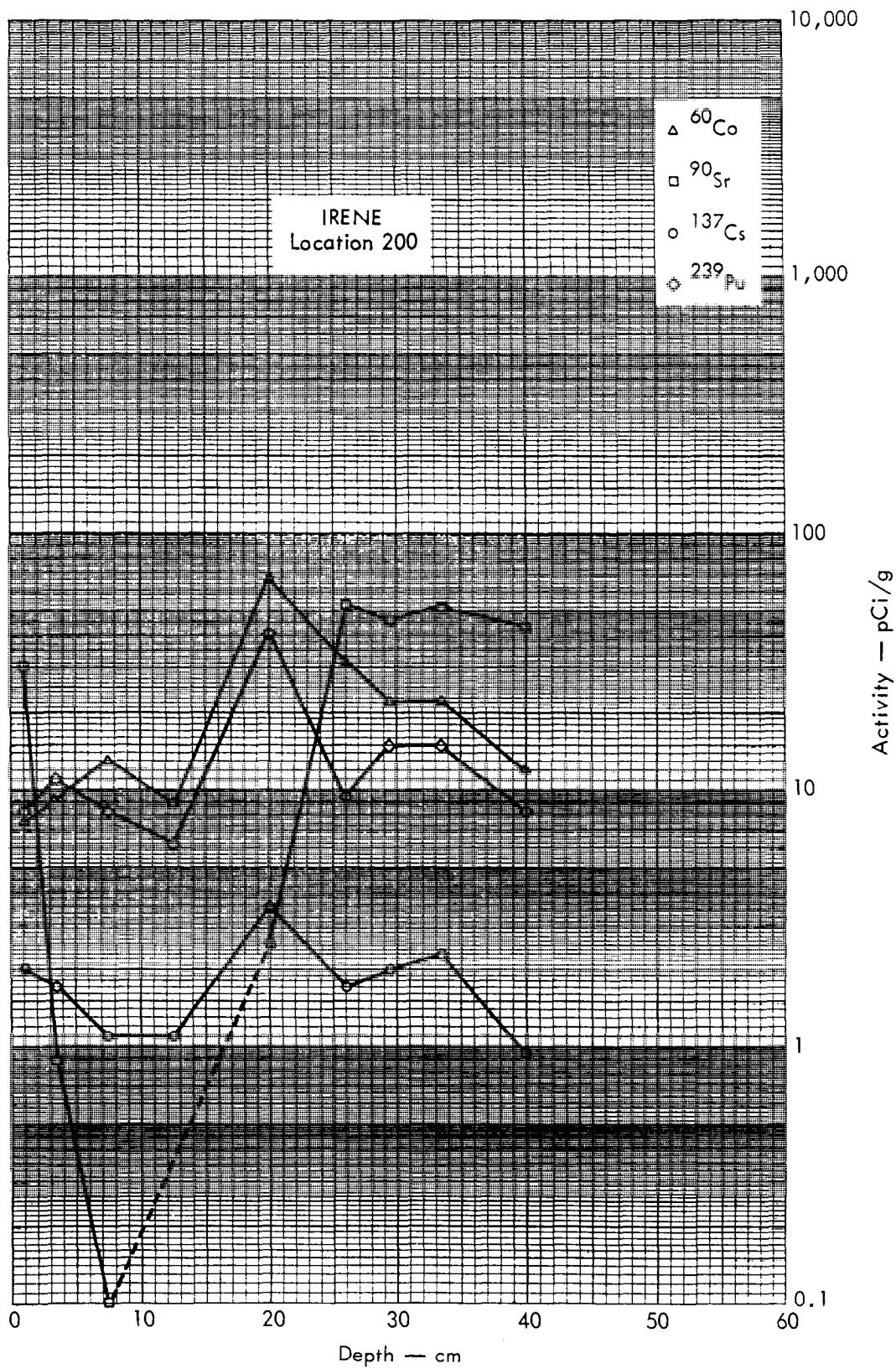


Fig. B. 6.2a. Activities of selected radionuclides as a function of soil depth.

100 METERS



Fig. B.7.1.a.

100 METERS

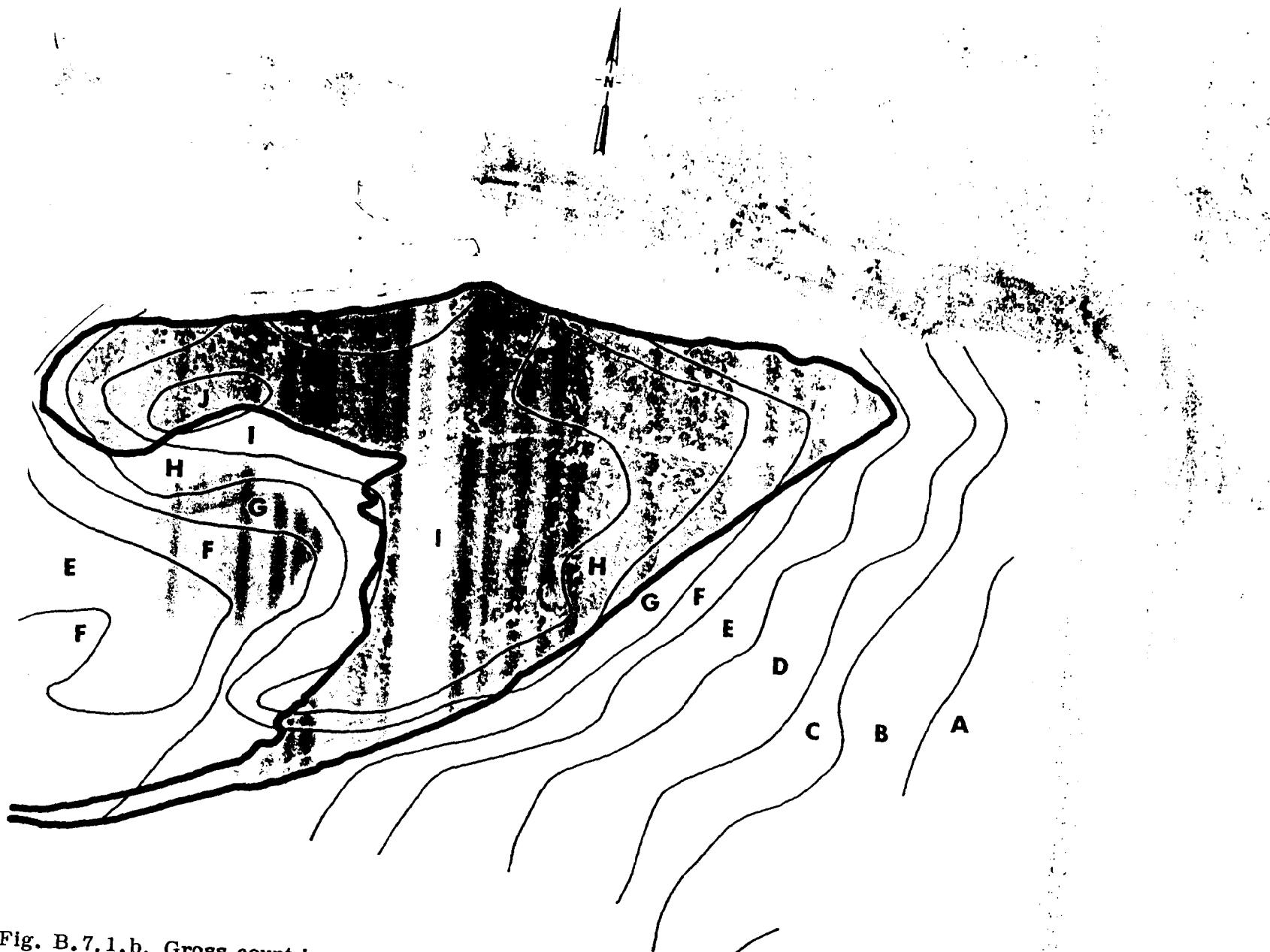


Fig. B.7.1.b. Gross count isoexposure contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

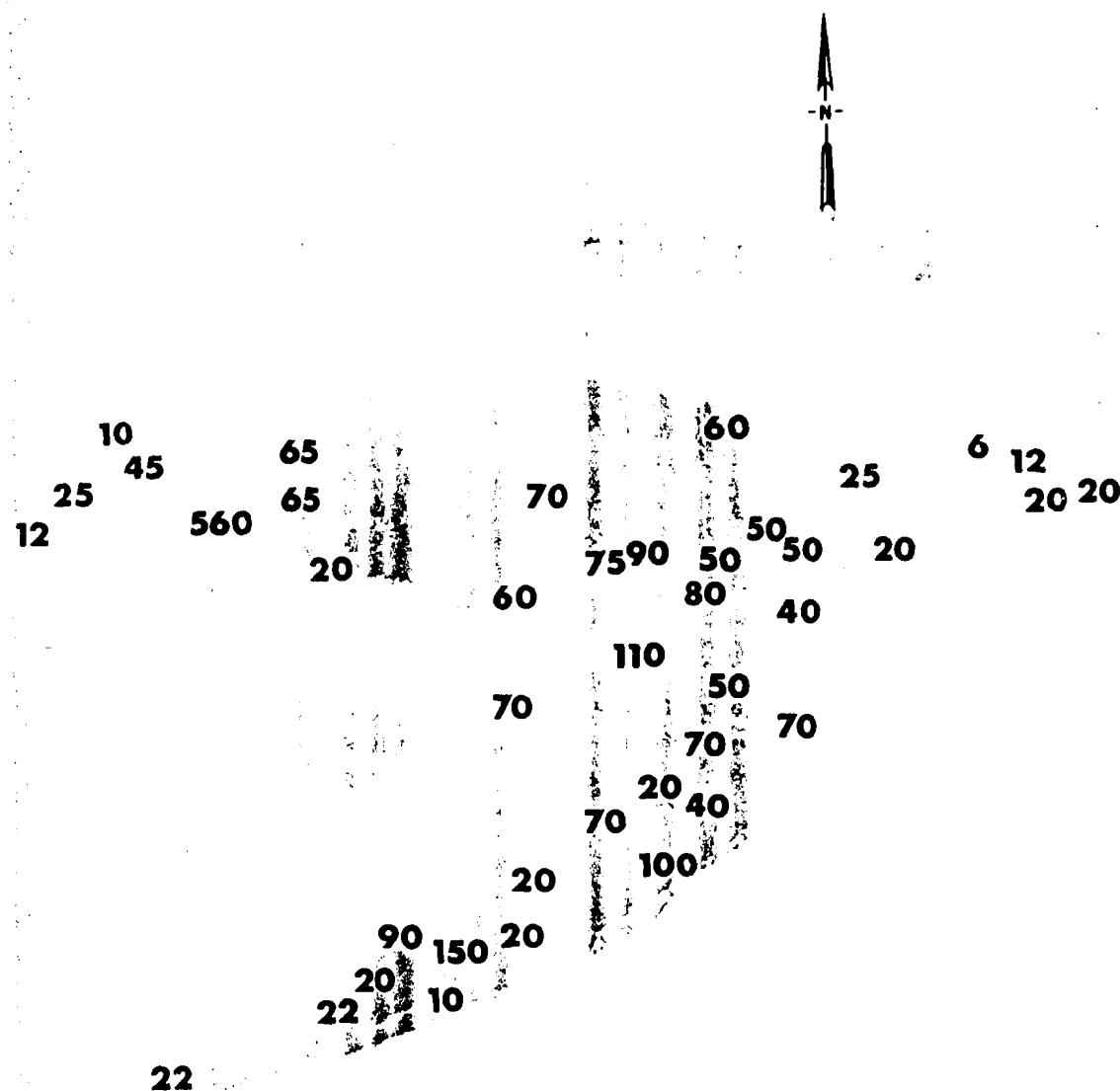


Fig. B.7.1.d. The gamma background exposure rate ( $\mu\text{R}/\text{hr}$ ) at 1 m above the ground, measured with a portable NaI scintillation counter.

100 METERS



- PROFILE SAMPLES (0-35 cm)
- PROFILE SAMPLES (0-65 cm)
- △ PROFILE SAMPLES (0-185 cm)
- CORE SAMPLES (15 cm)

Fig. B.7.1.f. Soil-sample locations.

100 METERS

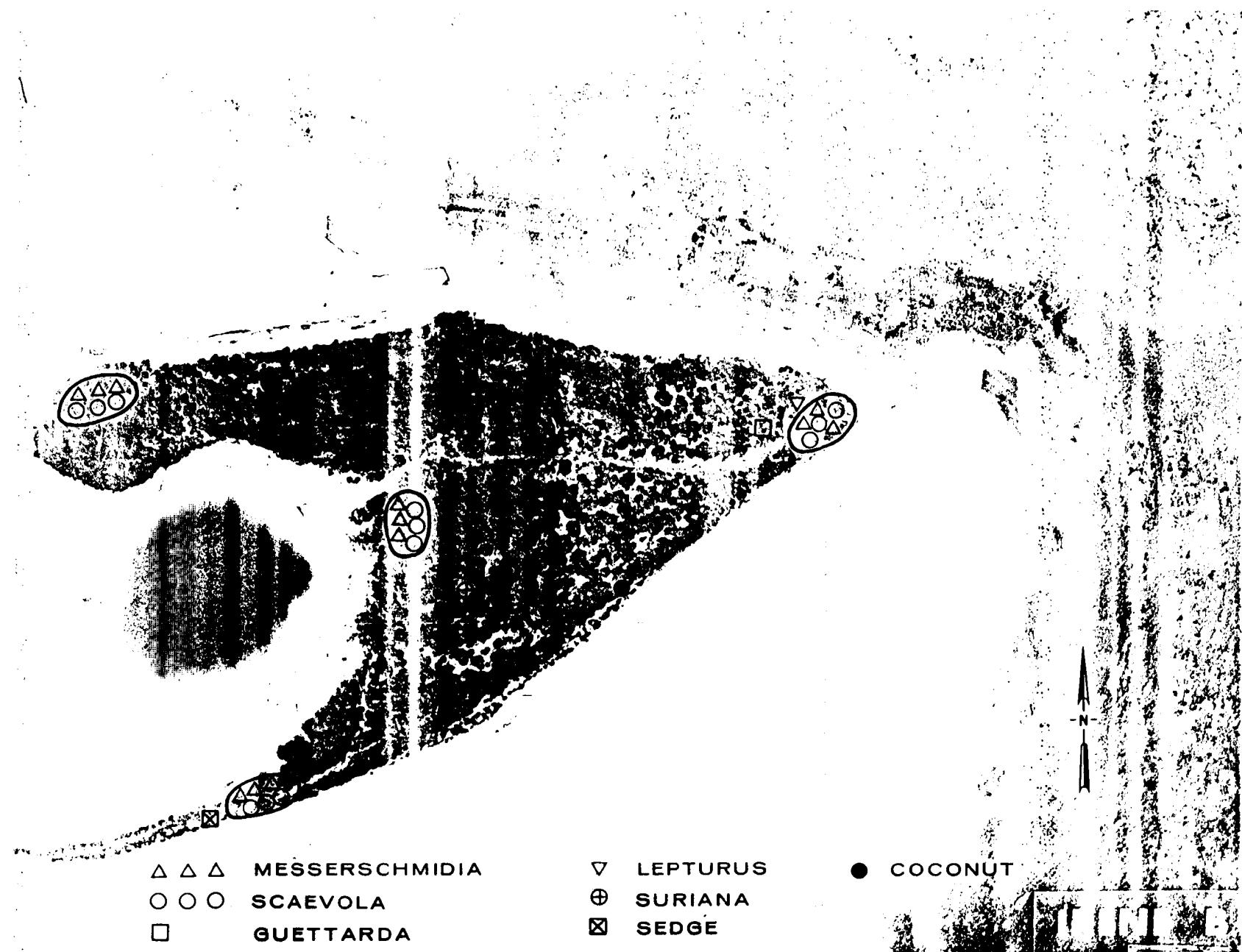


Fig. B.7.1.g. Vegetation sample locations.

△ △ △ MESSERSCHMIDIA  
○ ○ ○ SCAEVOA  
□ GUETTARDA

▽ LEPTURUS  
⊕ SURIANA  
✖ SEDGE

● COCONUT

100 METERS

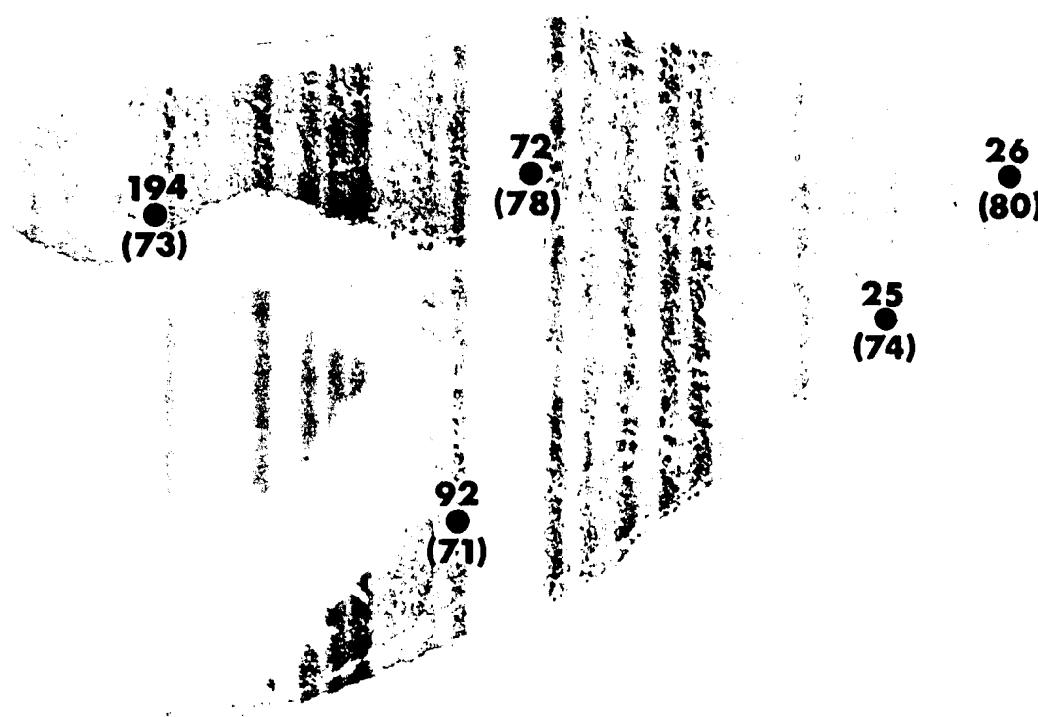
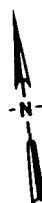


Fig. B.7.1.h. The gamma-ray exposure rates ( $\mu\text{R}/\text{hr}$ ) measured 1 m above the ground by the LiF thermoluminescent dosimeters (TLD). The numbers shown in parentheses denote the location identification numbers.

100 METERS

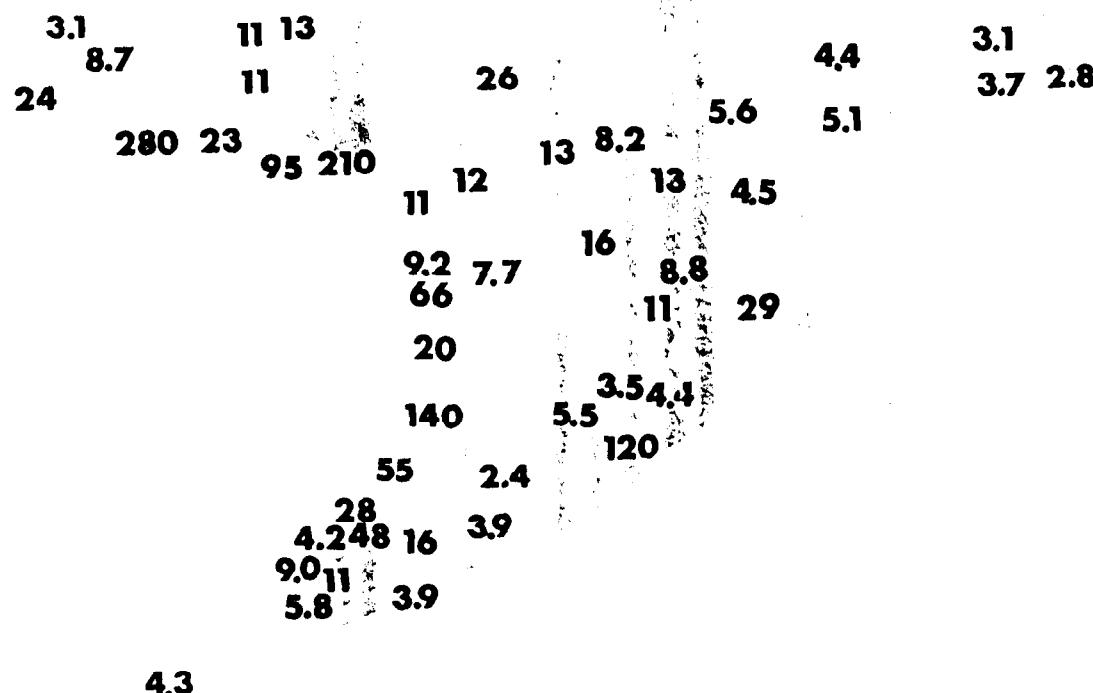
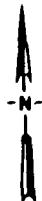
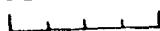
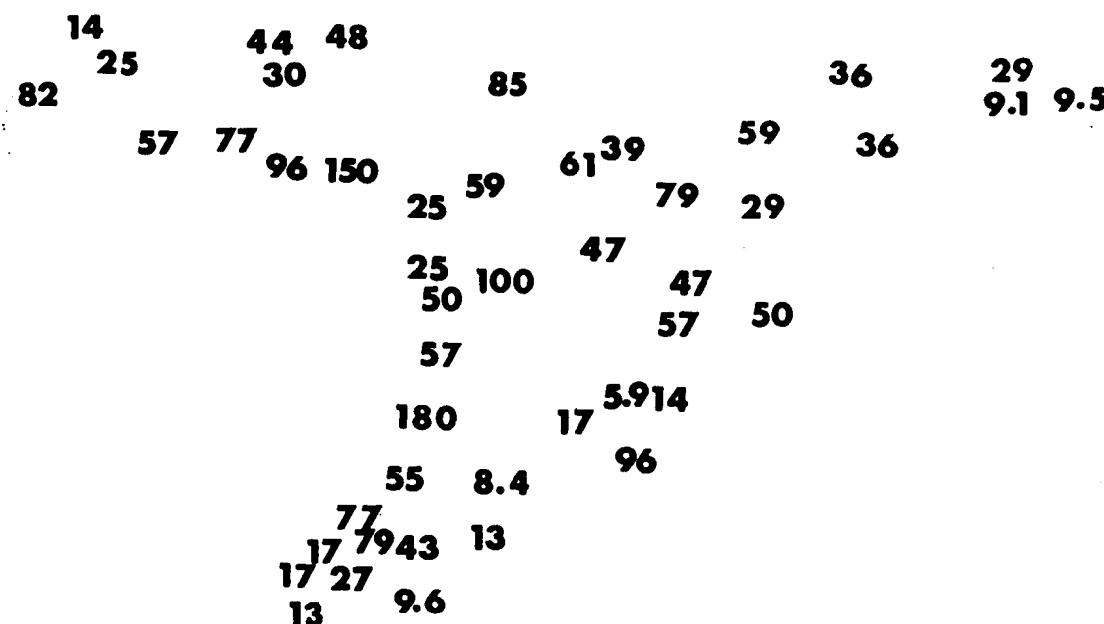
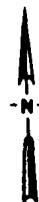


Fig. B.7.1.i. The average  $^{239}\text{Pu}$  activities (pCi/gm) in soil samples collected to a depth of 15 cm.

100 METERS



11

Fig. B.7.1.j. The average  $^{90}\text{Sr}$  activities (pCi/gm) in soil samples collected to a depth of 15 cm.

100 METERS

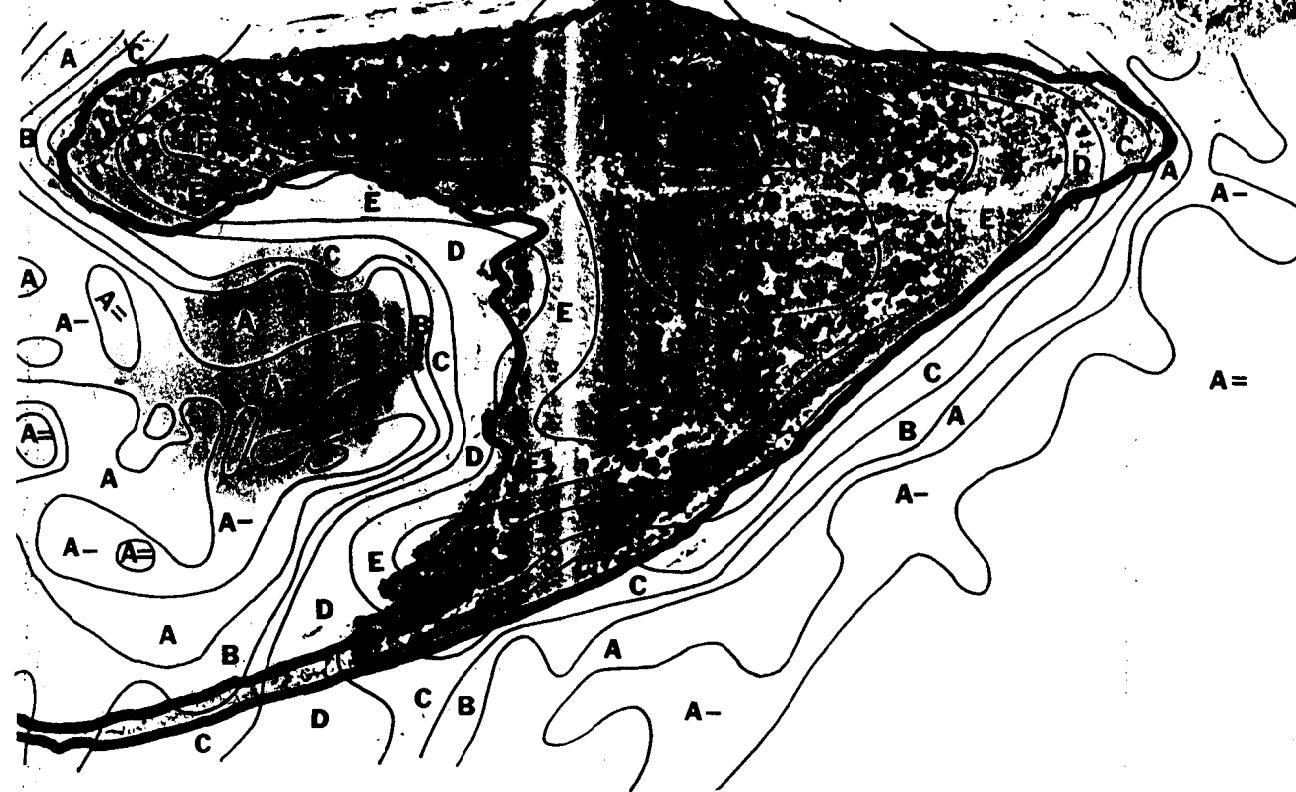
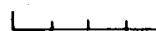


Fig. B.7.1.k. <sup>137</sup>Cs isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS



N

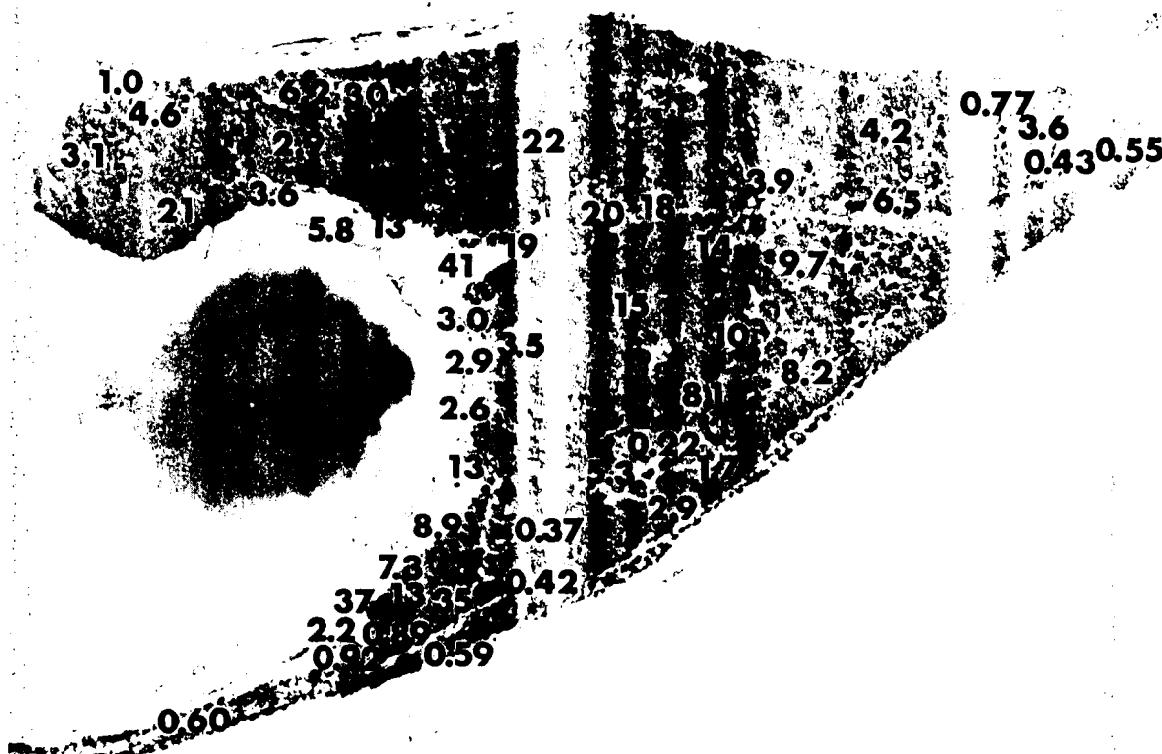


Fig. B.7.1.1. The average  $^{137}\text{Cs}$  activities ( $\text{pCi/gm}$ ) in soil samples collected to a depth of 15 cm.

100 METERS

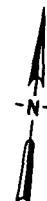


Fig. B.7.1.m.  $^{60}\text{Co}$  isoexposure and isoconcentration contours. (Refer to alphabetic symbol key in this appendix.)

100 METERS

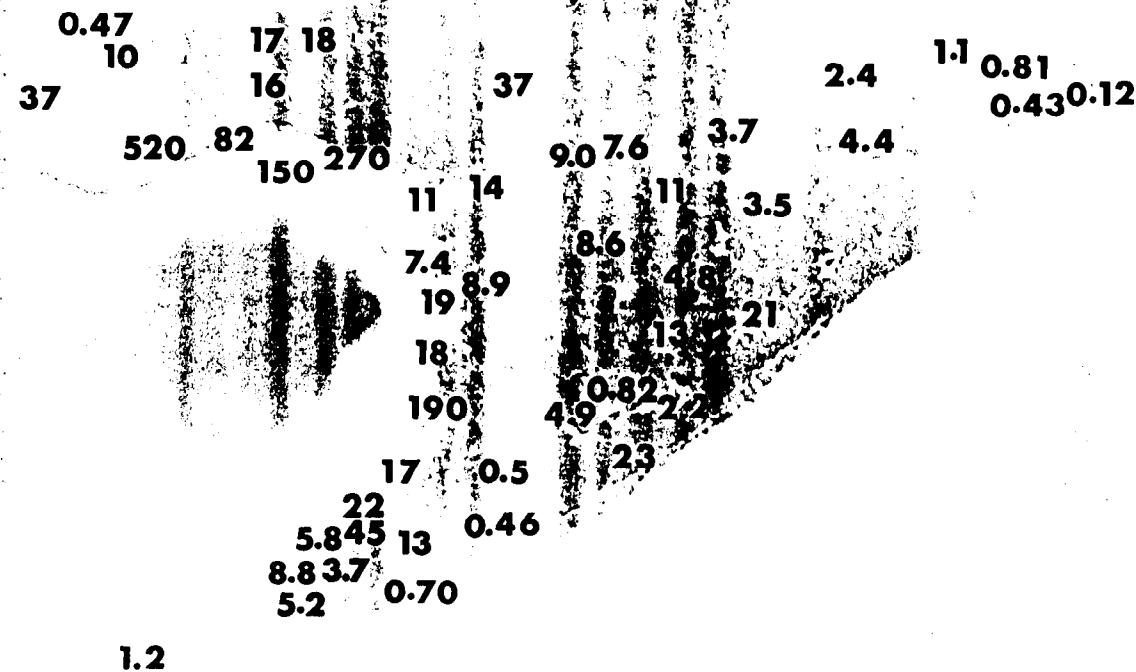
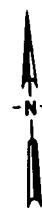


Fig. B.7.1.n. The average  $^{56}\text{Co}$  activities (pCi/gm) in soil samples collected to a depth of 15 cm.

100 METERS

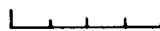


Fig. B.7.1.o. Terrestrial animal sample locations.

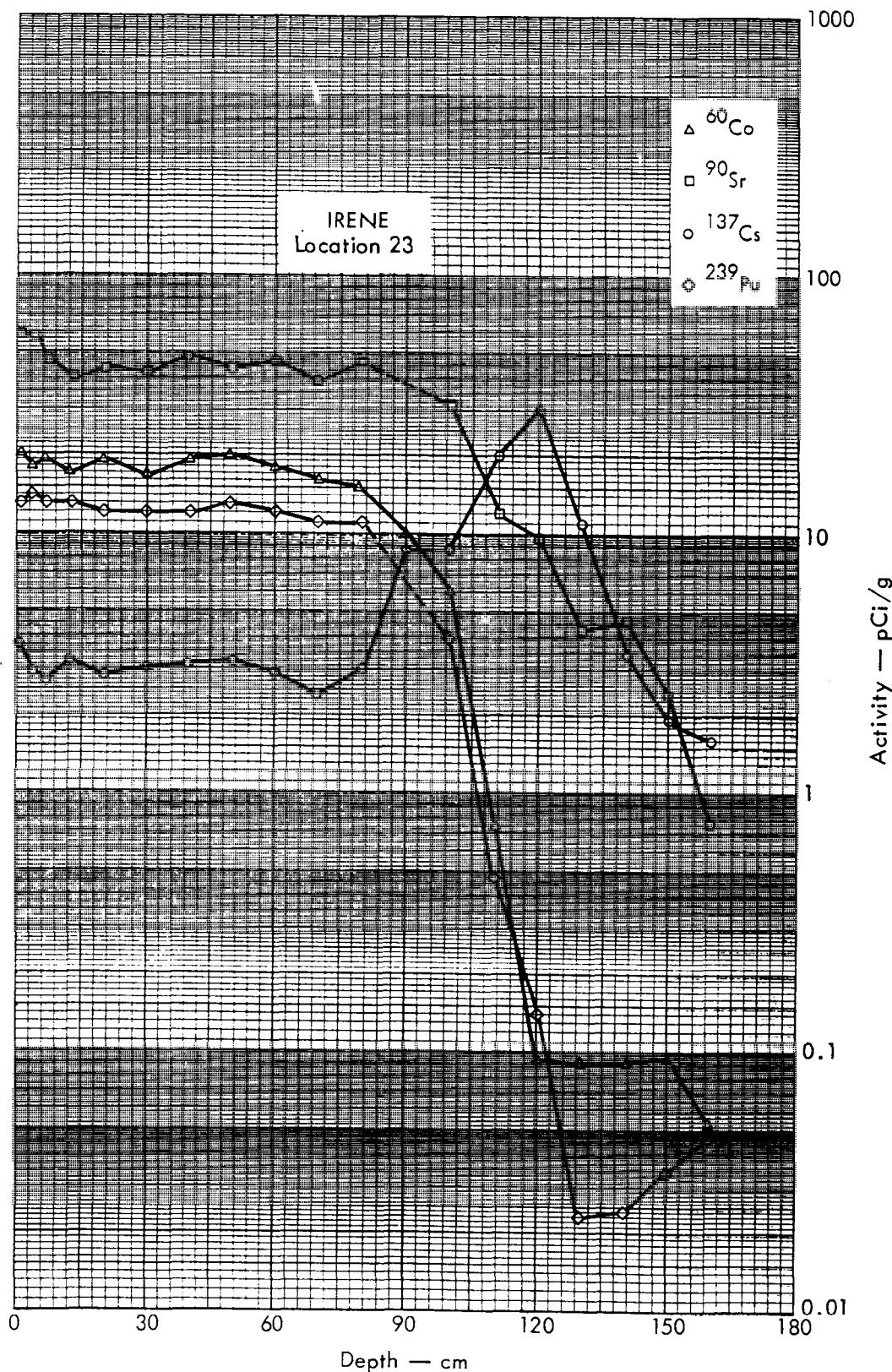


Fig. B. 7.2a. Activities of selected radionuclides as a function of soil depth.

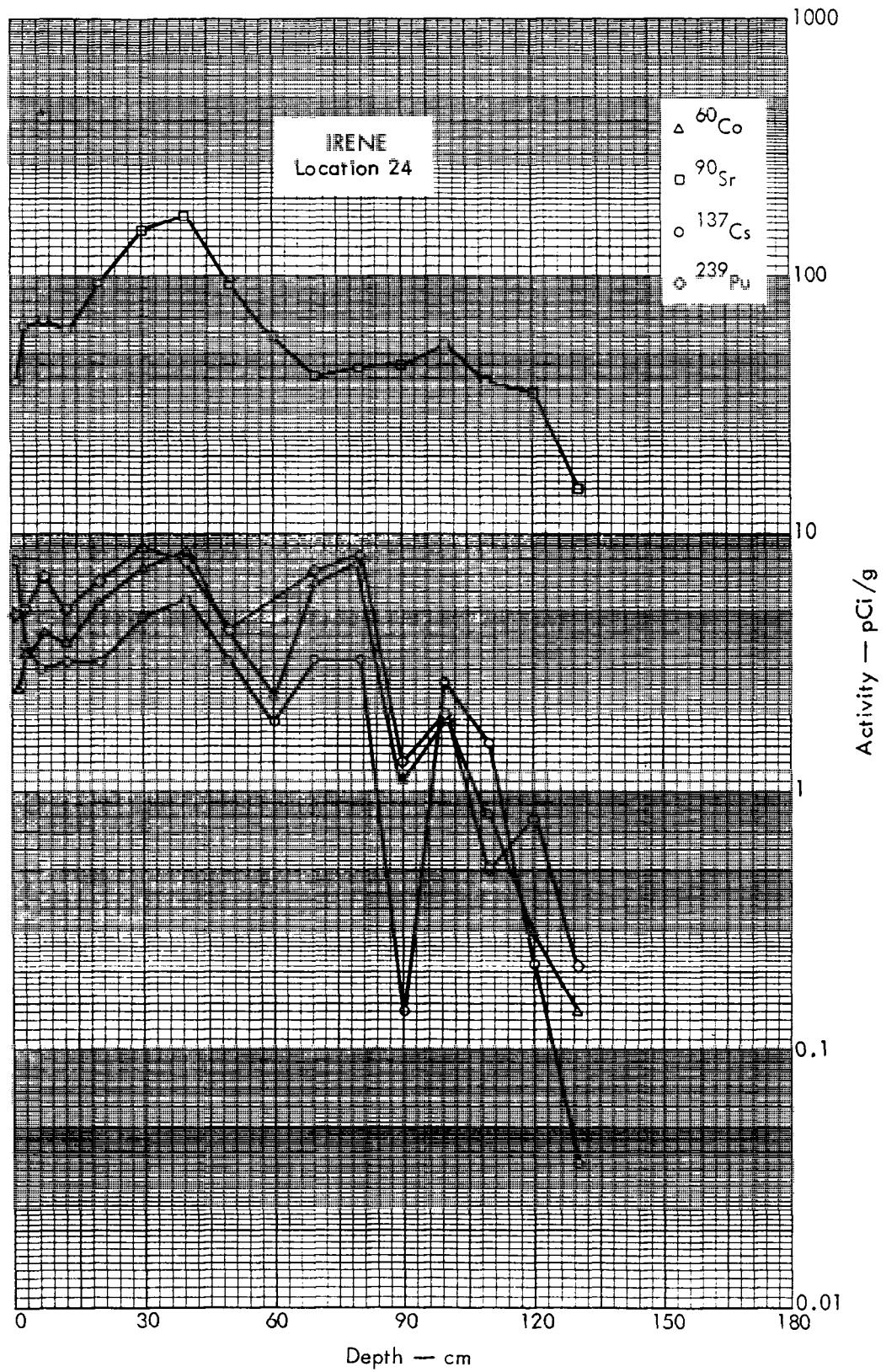


Fig. B.7.2b. Activities of selected radionuclides as a function of soil depth.

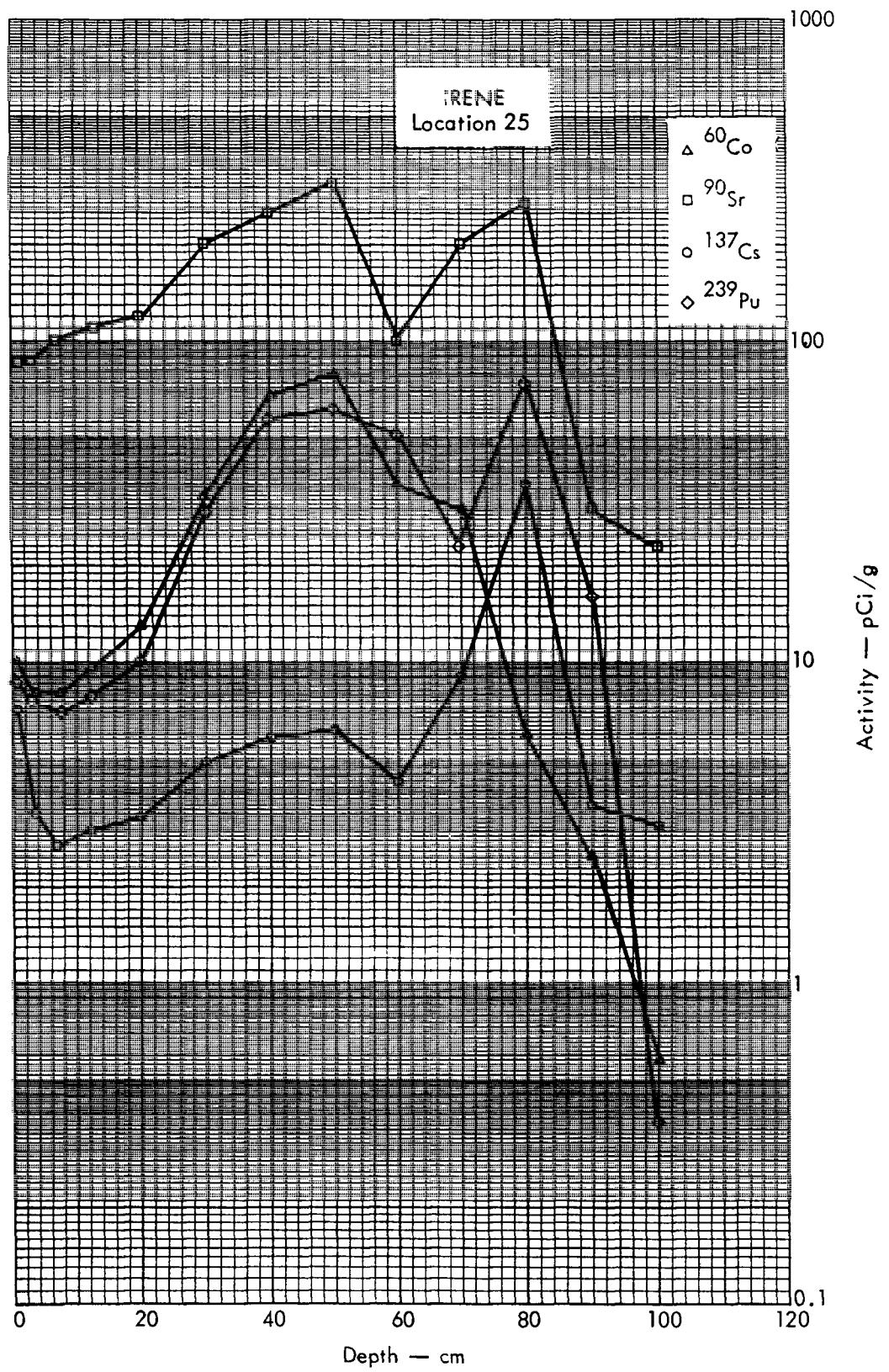


Fig. B.7.2c. Activities of selected radionuclides as a function of soil depth.

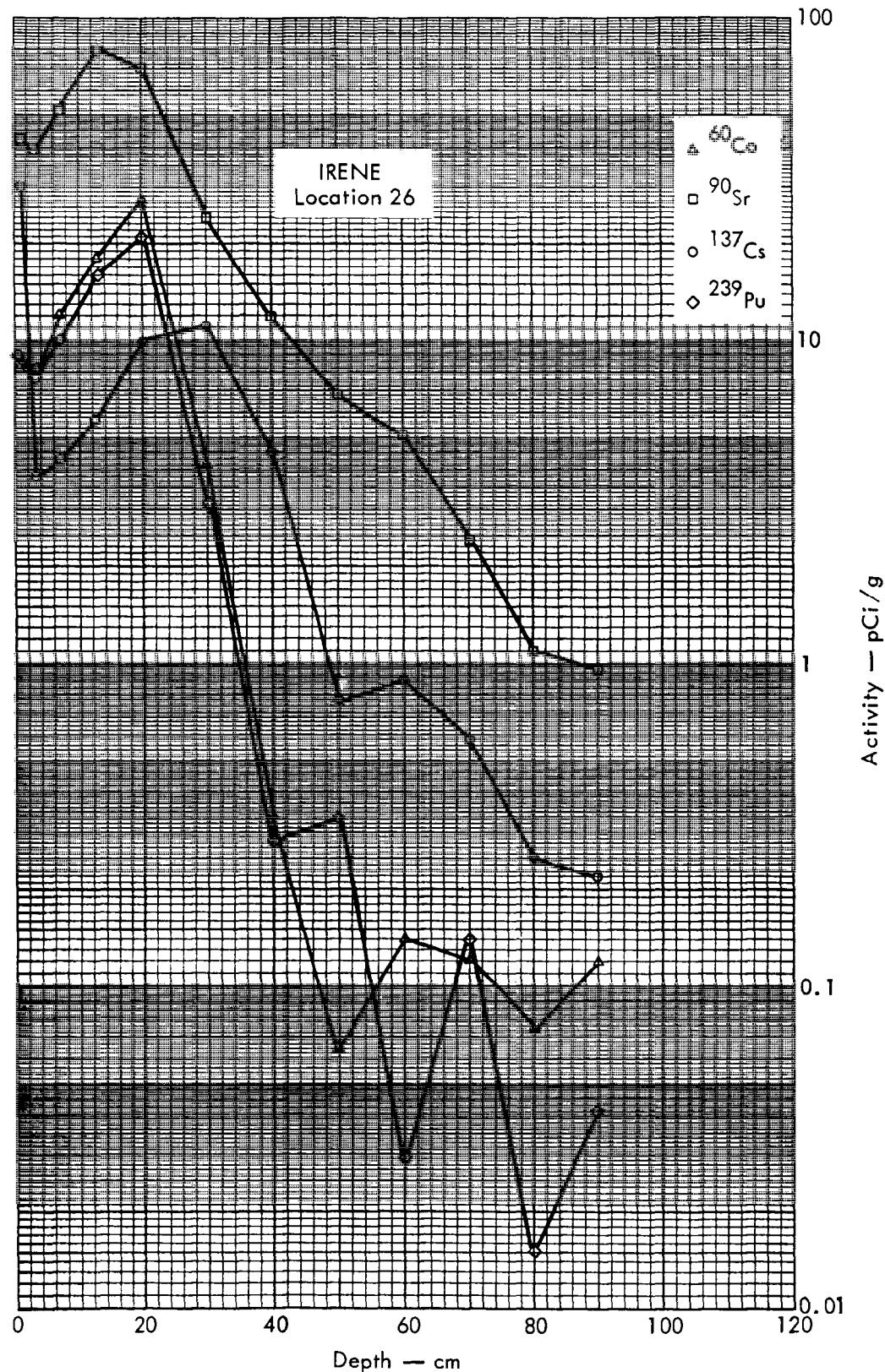


Fig. B. 7.2d. Activities of selected radionuclides as a function of soil depth.

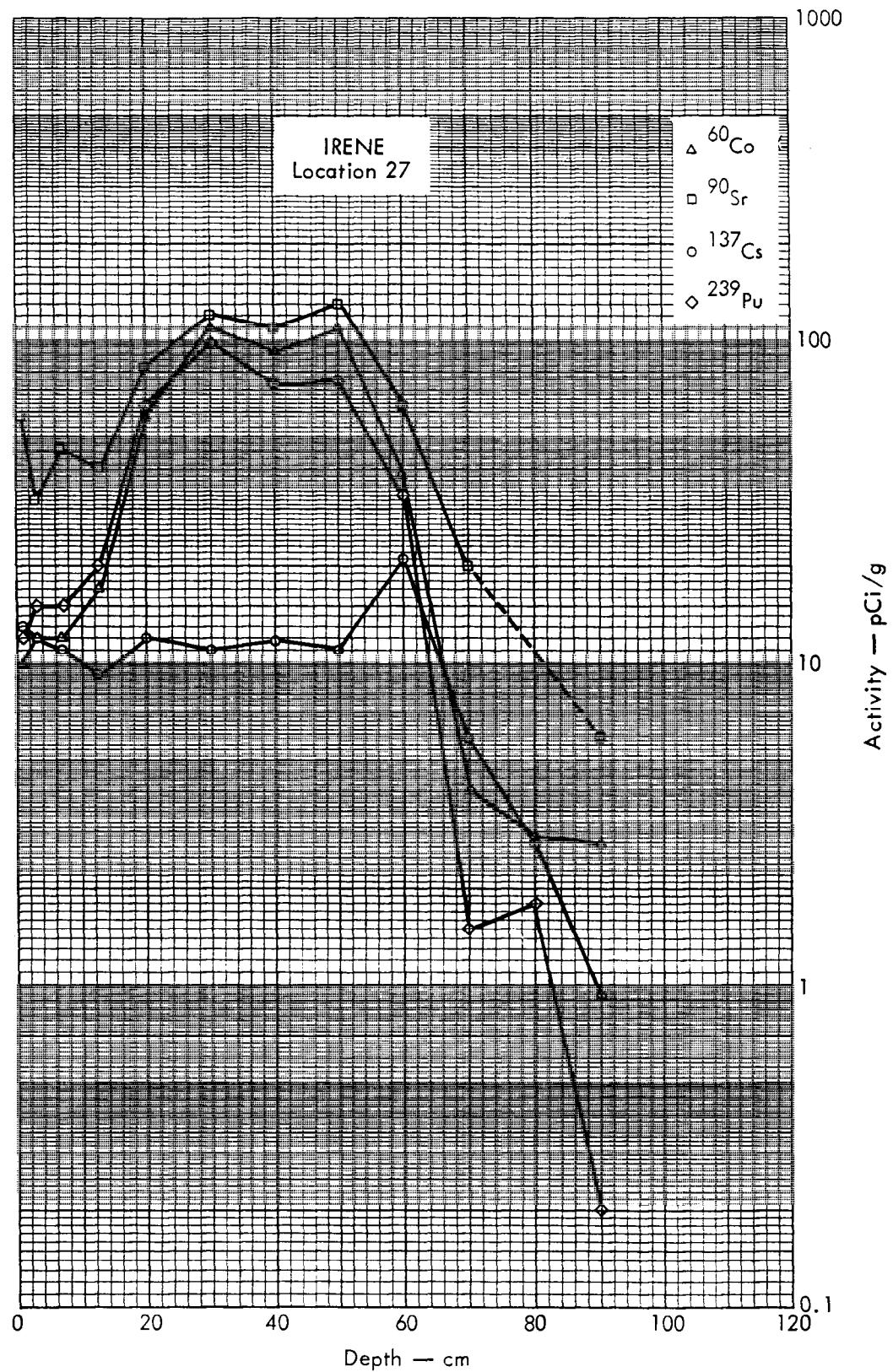


Fig. B. 7.2e. Activities of selected radionuclides as a function of soil depth.

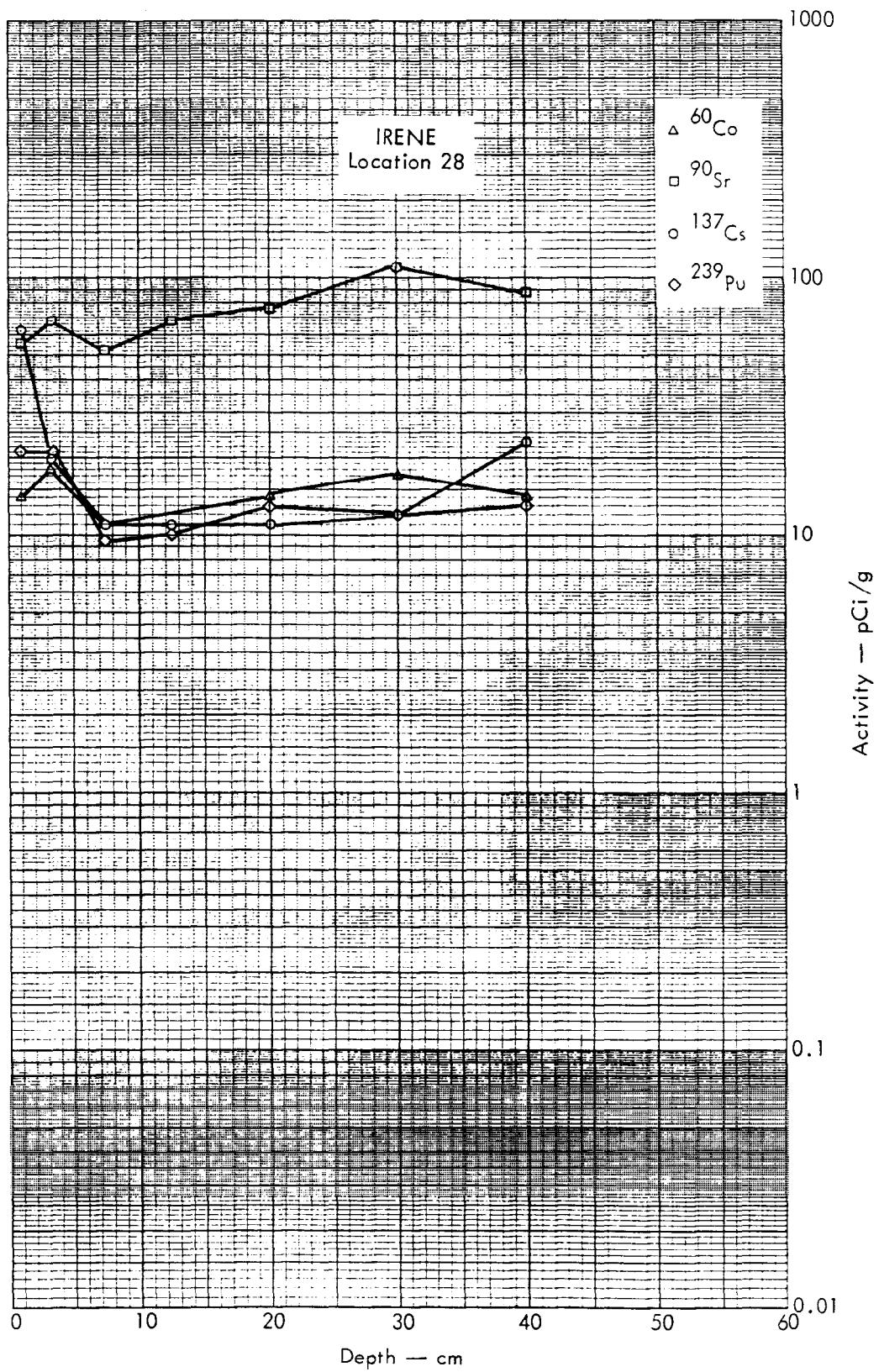


Fig. B. 7.2f. Activities of selected radionuclides as a function of soil depth.

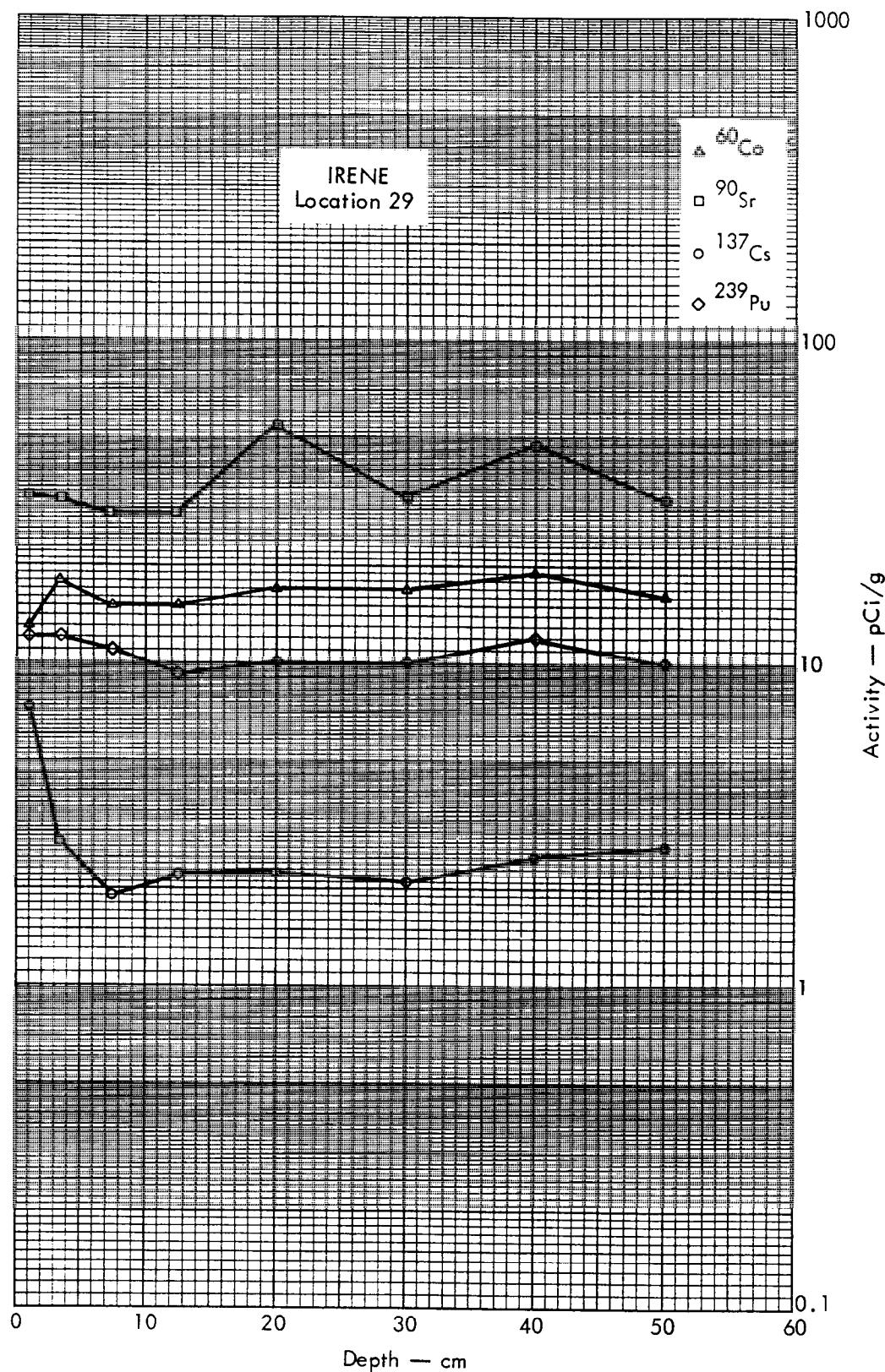


Fig. B.7.2g. Activities of selected radionuclides as a function of soil depth.

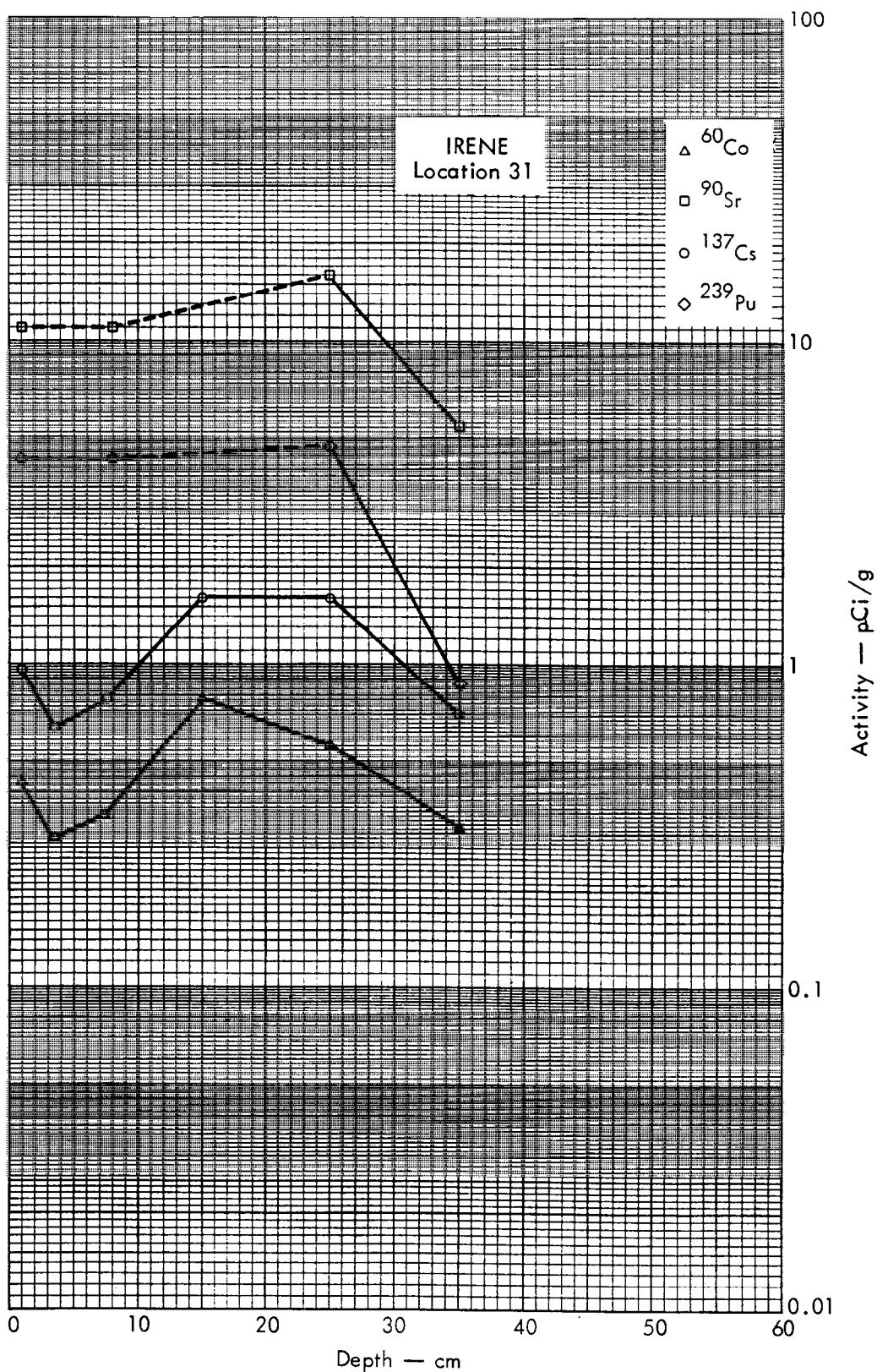


Fig. B. 7.2h. Activities of selected radionuclides as a function of soil depth.

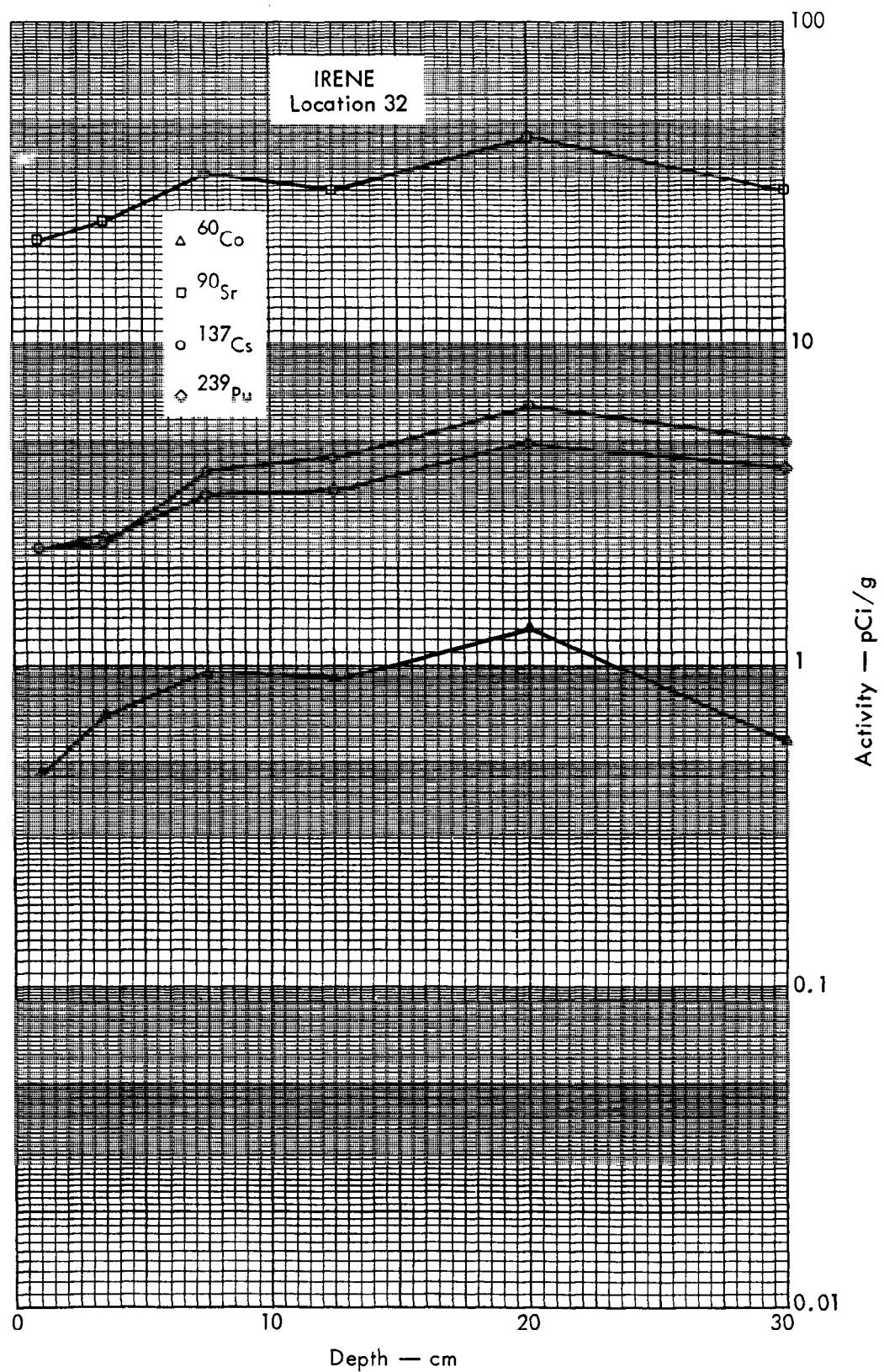


Fig. B. 7.2i. Activities of selected radionuclides as a function of soil depth.

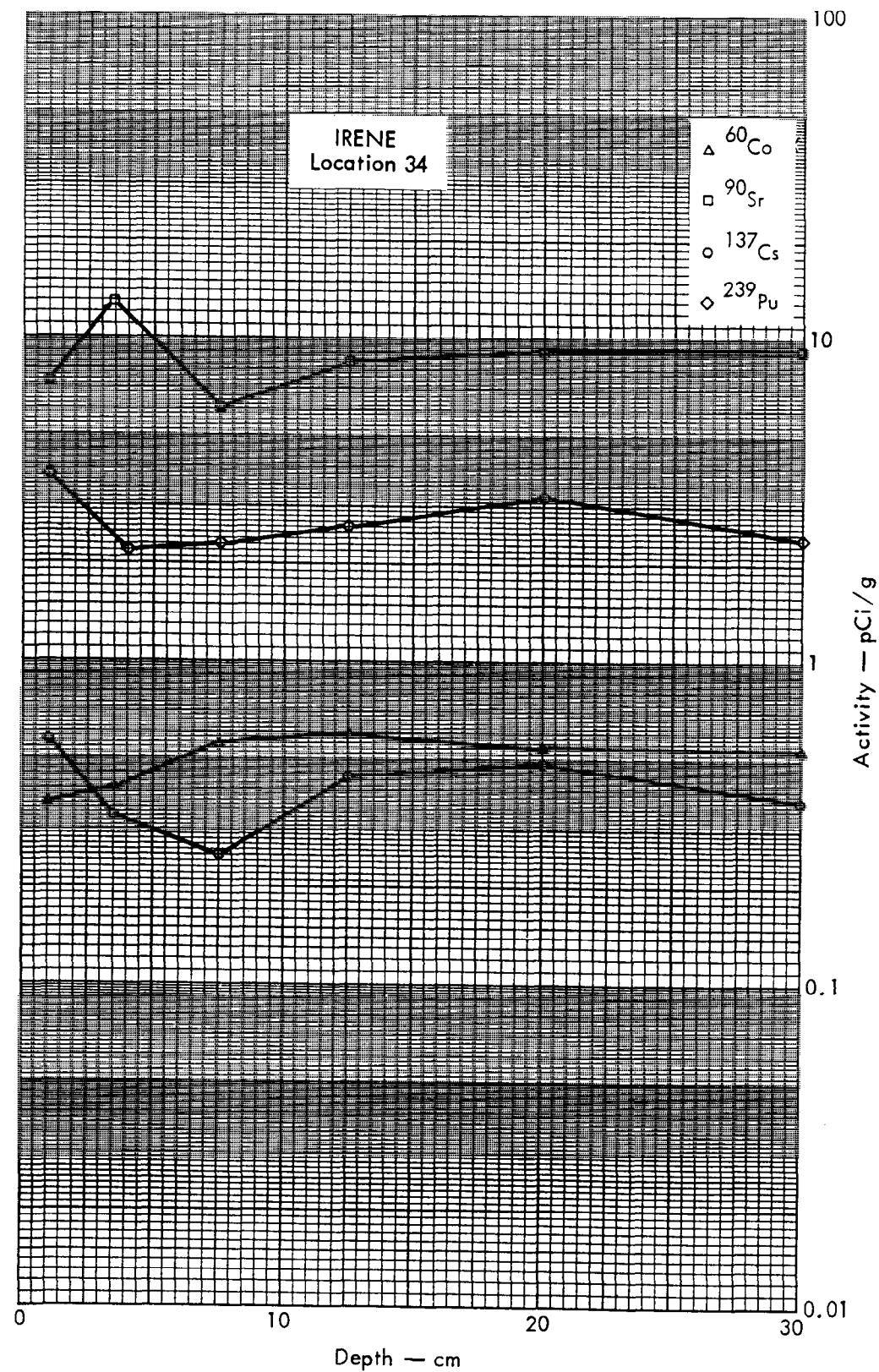


Fig. B. 7.2j. Activities of selected radionuclides as a function of soil depth.

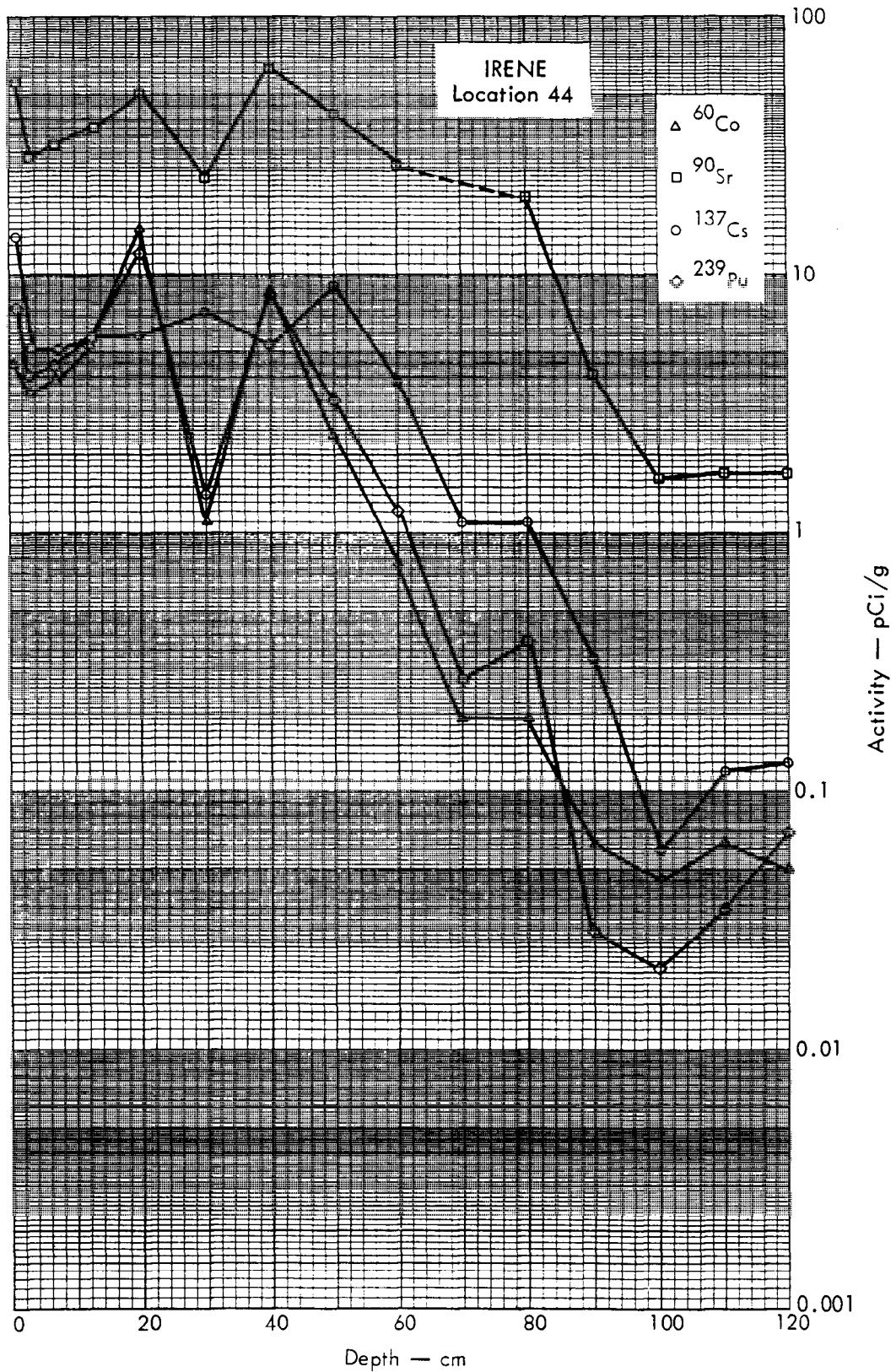


Fig. B.7.2k. Activities of selected radionuclides as a function of soil depth.

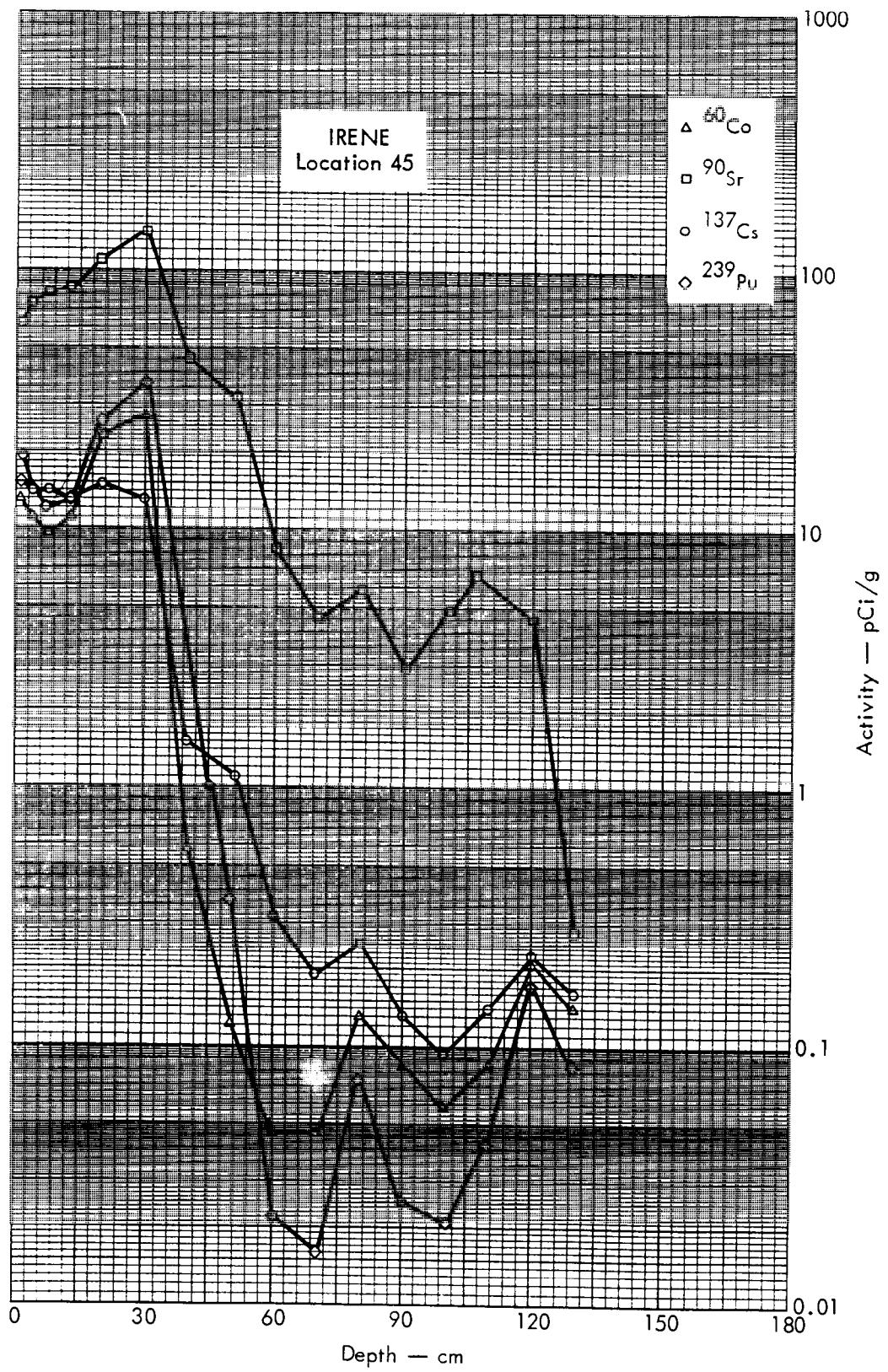


Fig. B.7.21. Activities of selected radionuclides as a function of soil depth.

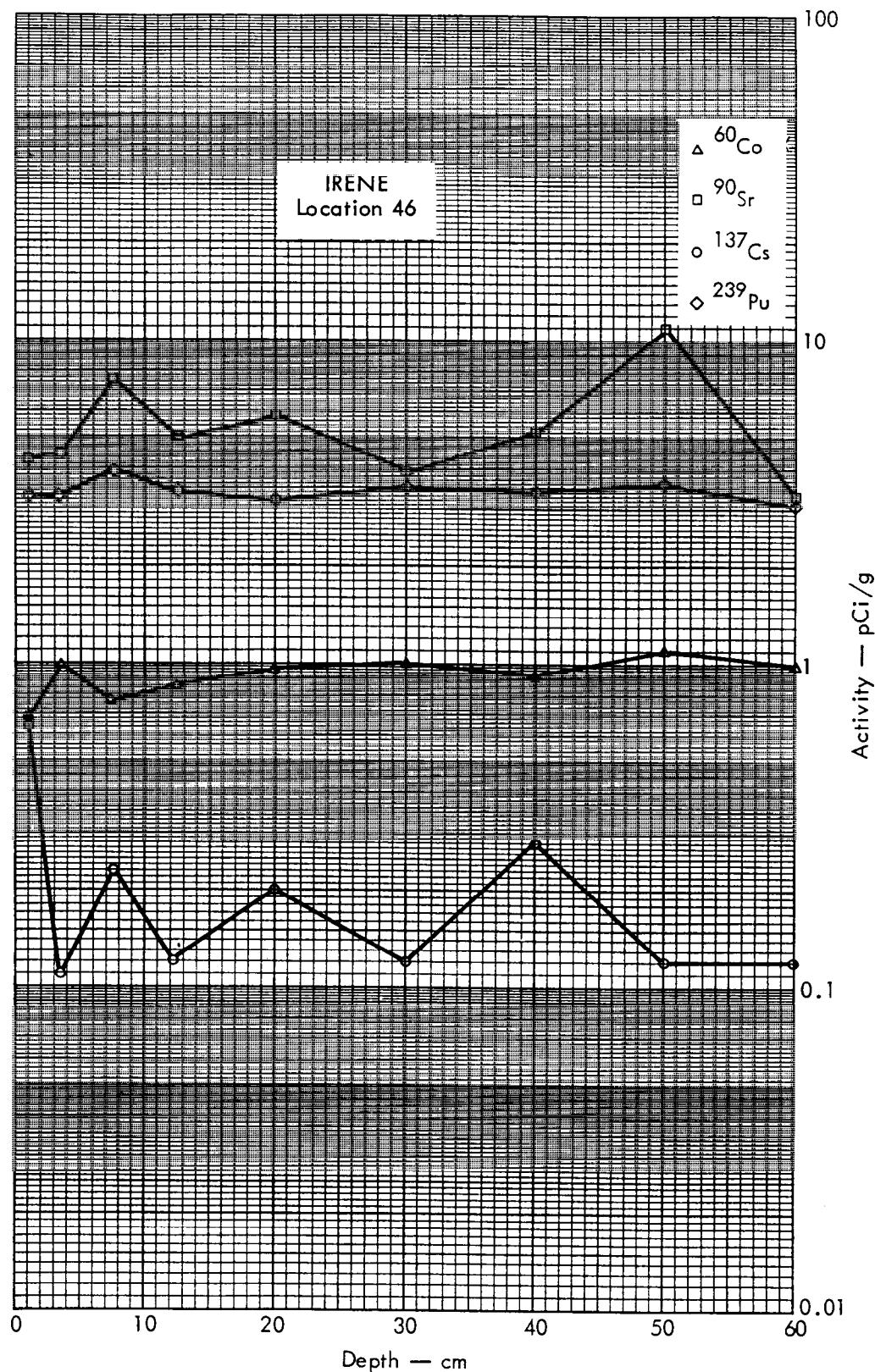


Fig. B.7.2m. Activities of selected radionuclides as a function of soil depth.

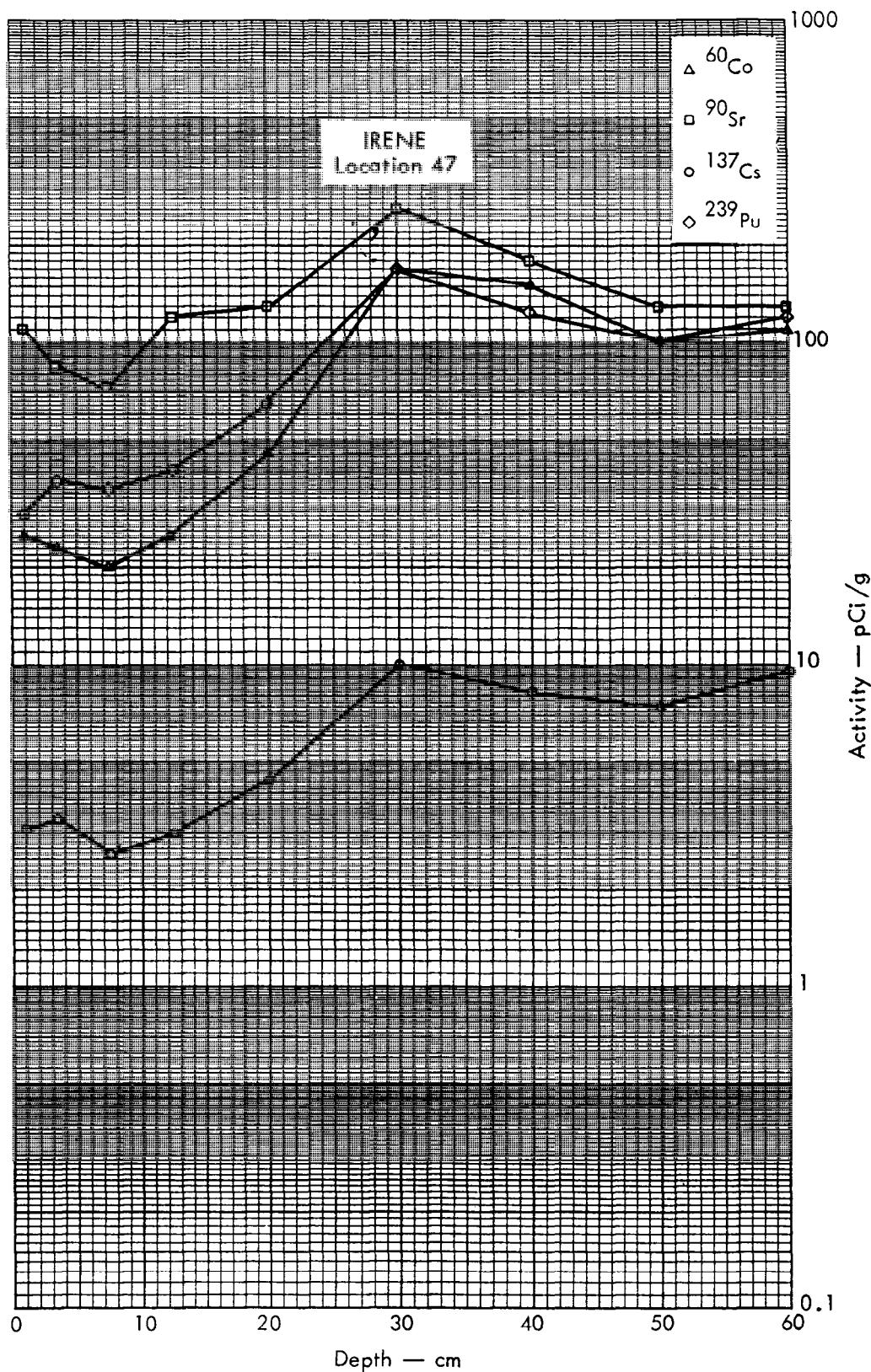


Fig. B.7.2n. Activities of selected radionuclides as a function of soil depth.

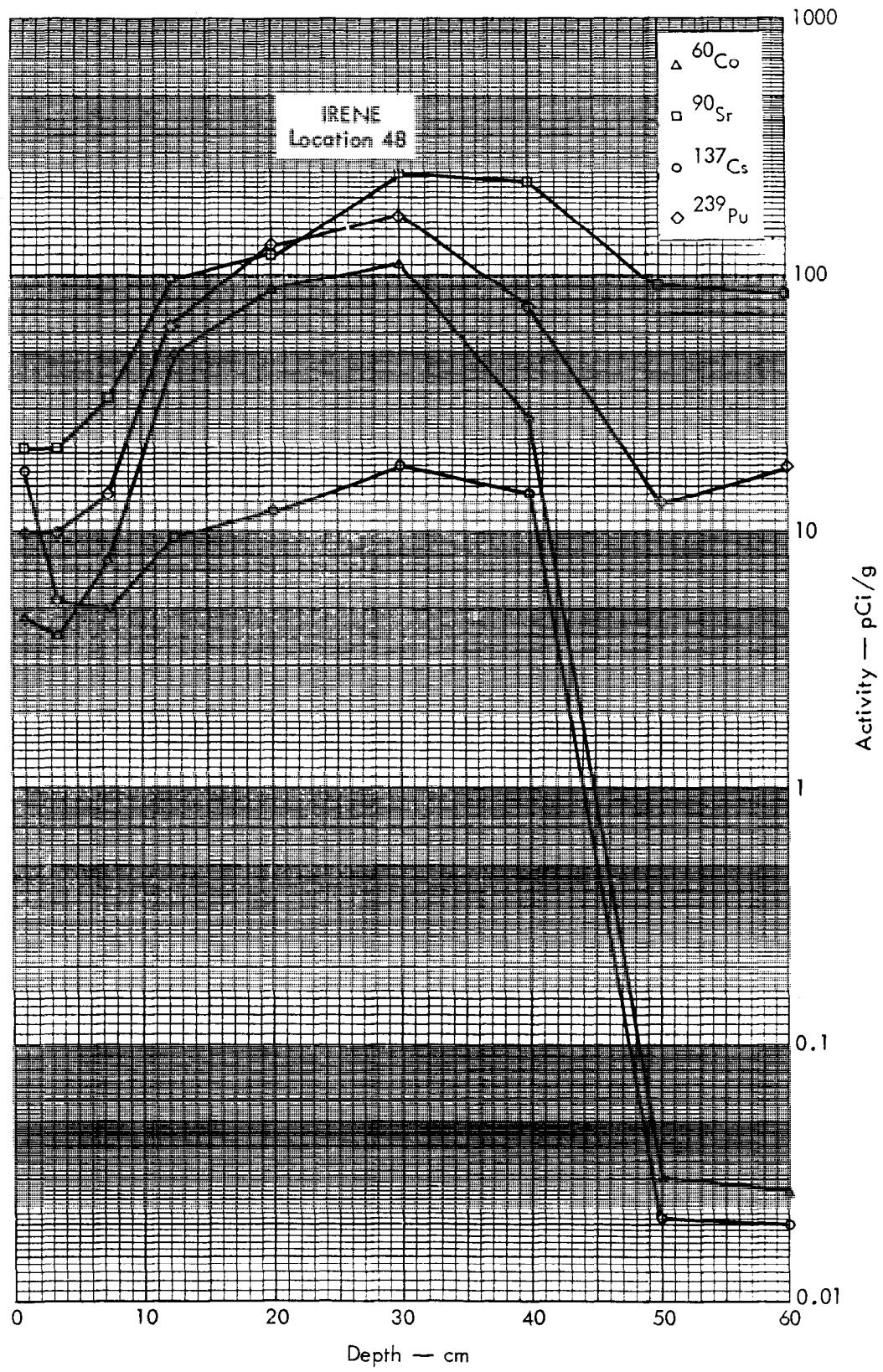


Fig. B.7.2o. Activities of selected radionuclides as a function of soil depth.

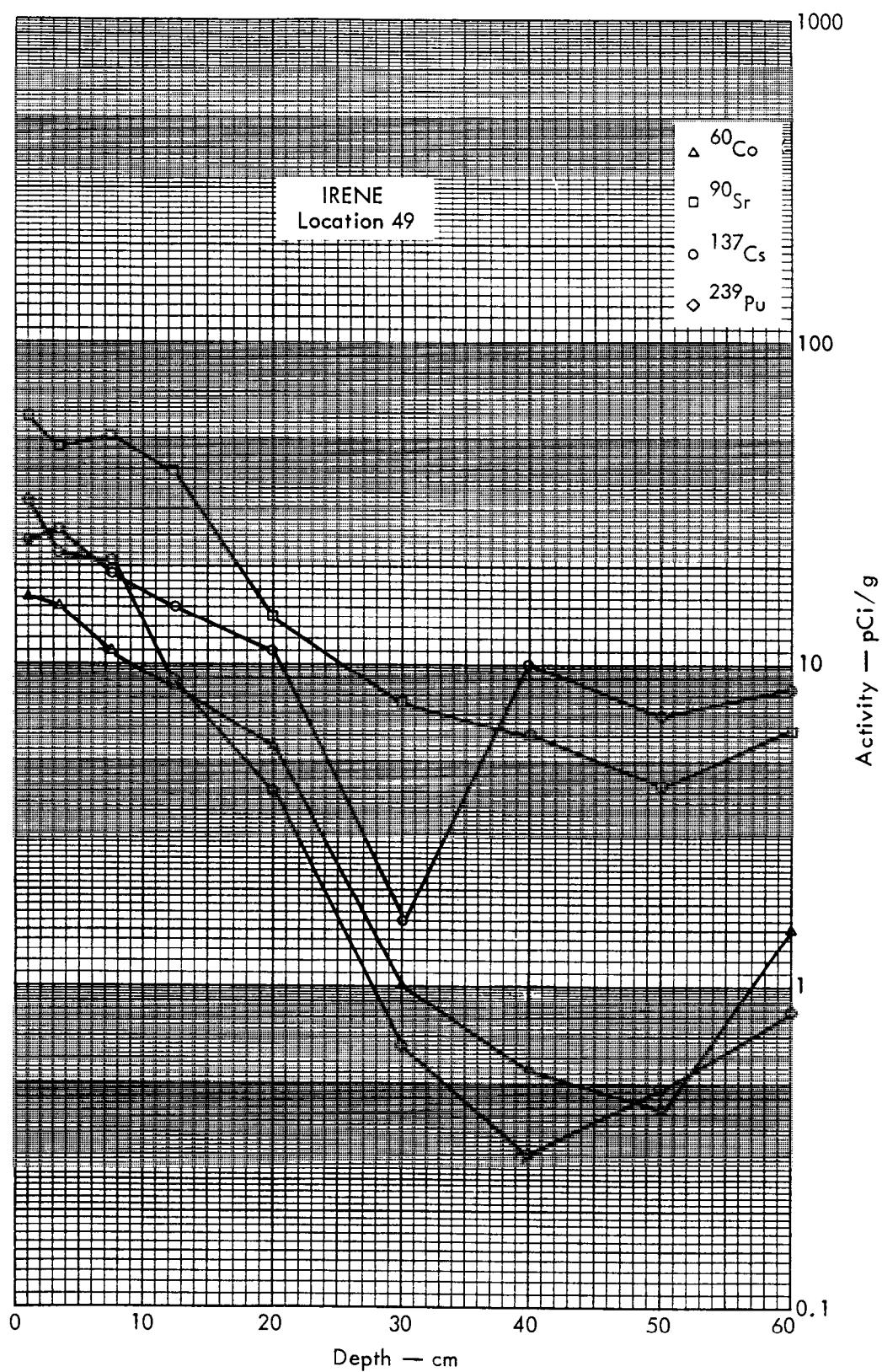


Fig. B. 7.2p. Activities of selected radionuclides as a function of soil depth.

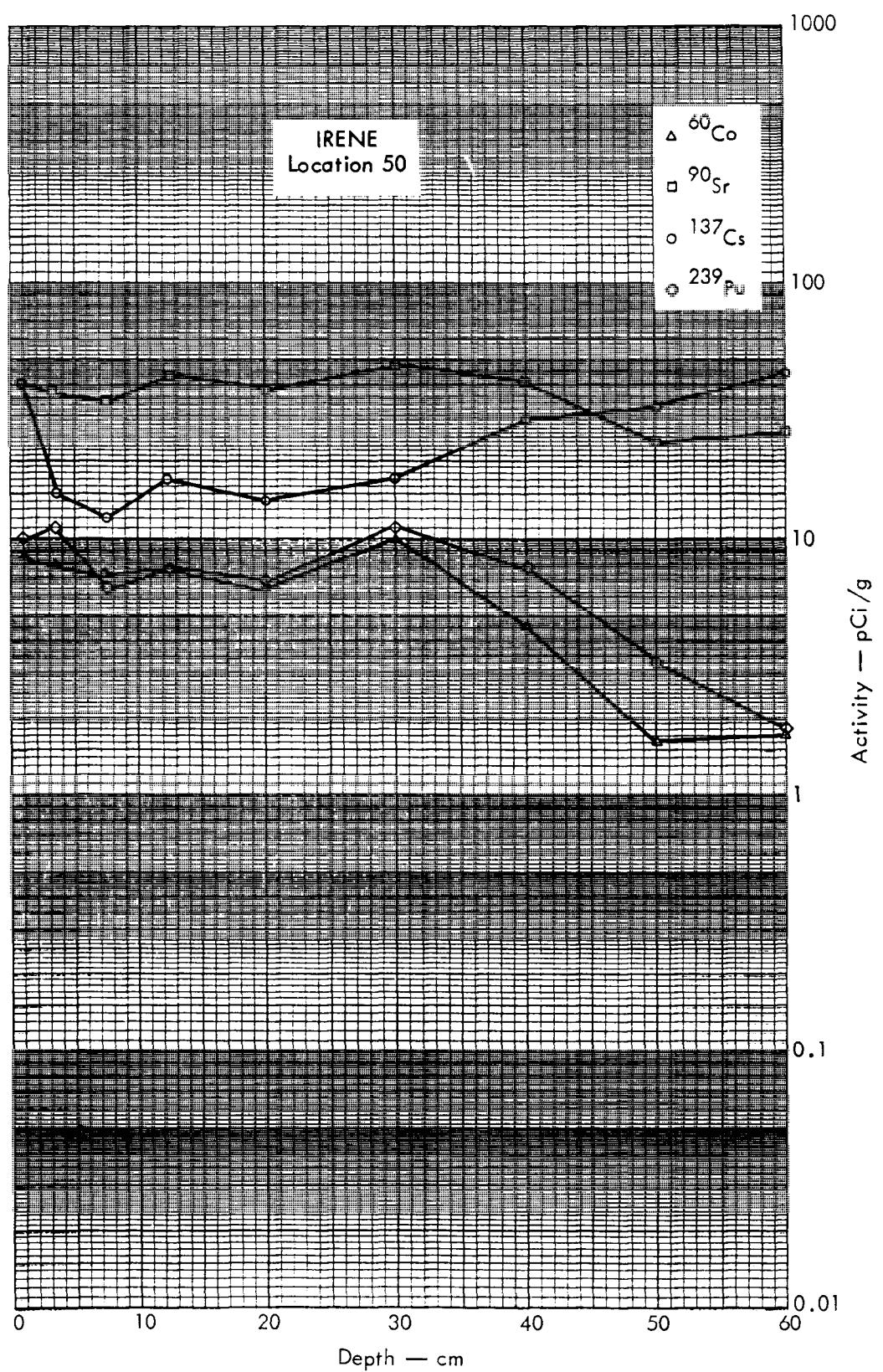


Fig. B.7.2q. Activities of selected radionuclides as a function of soil depth.

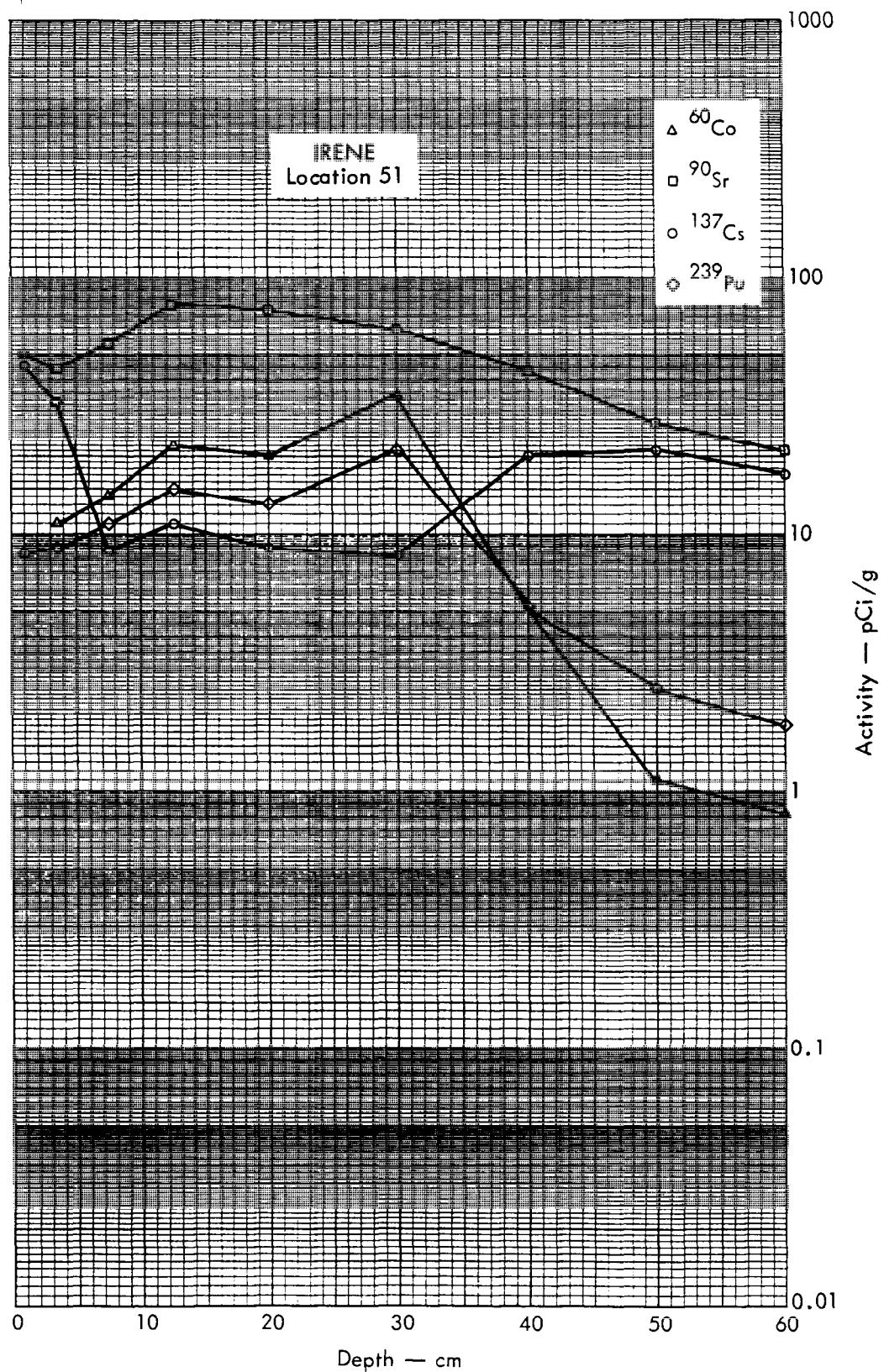


Fig. B. 7.2r. Activities of selected radionuclides as a function of soil depth.

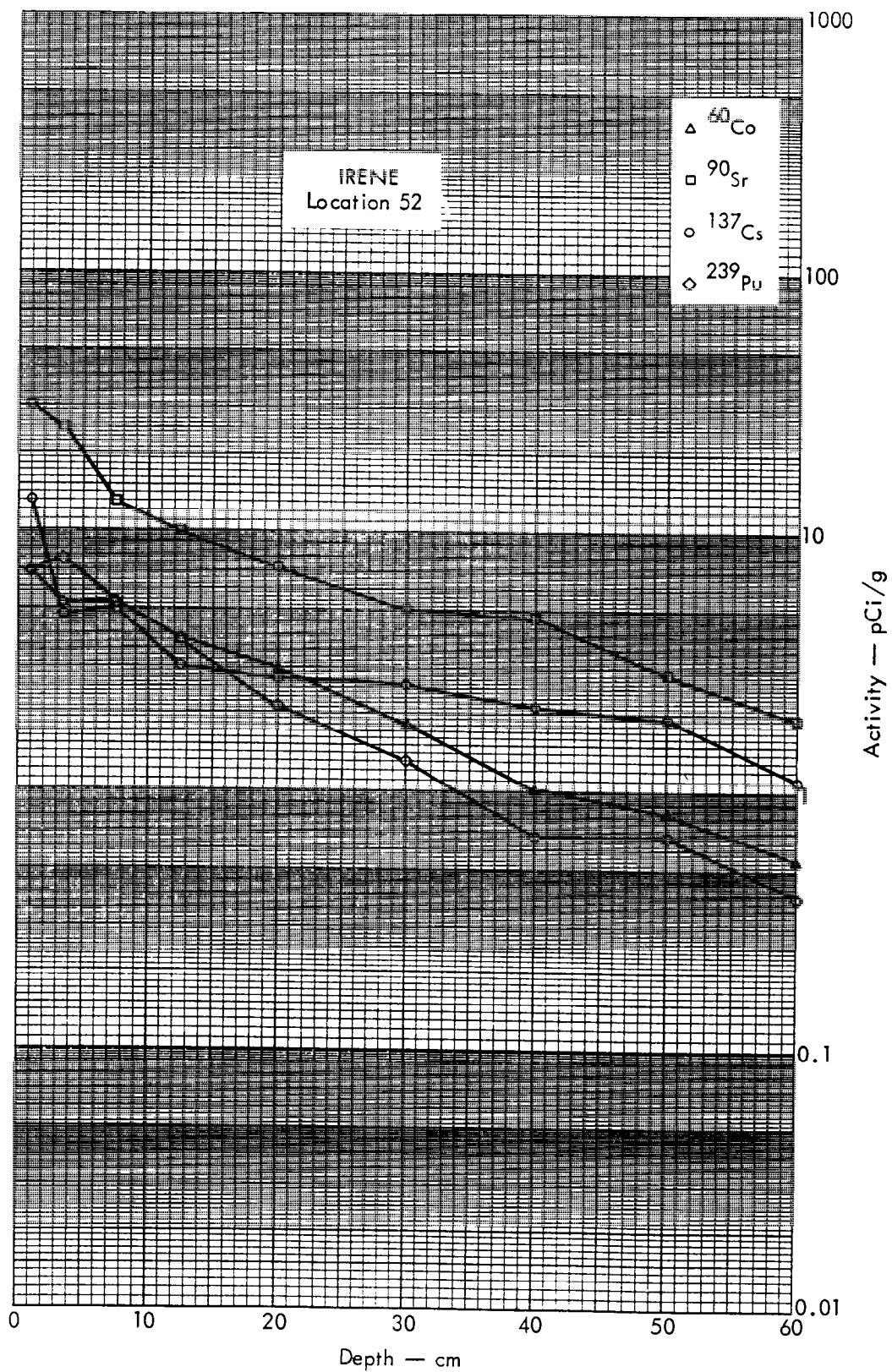


Fig. B. 7.2s. Activities of selected radionuclides as a function of soil depth.