

OBSERVATOIRE DE TAMANRASSET

DIRECTEUR: G.GRENET

BULLETIN SÉISMIQUE PROVISOIRE

JANVIER 1949

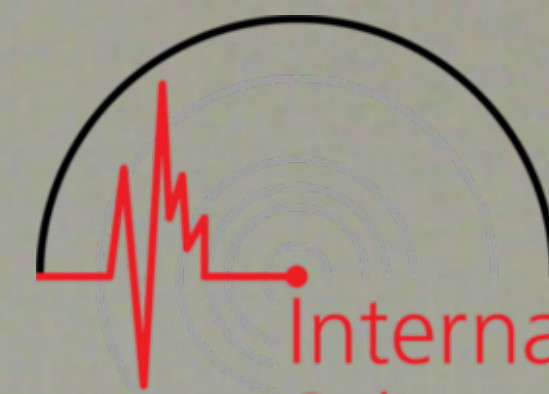
Longitude 5° 31'4 E Gr.

Latitude 22° 47'5 N

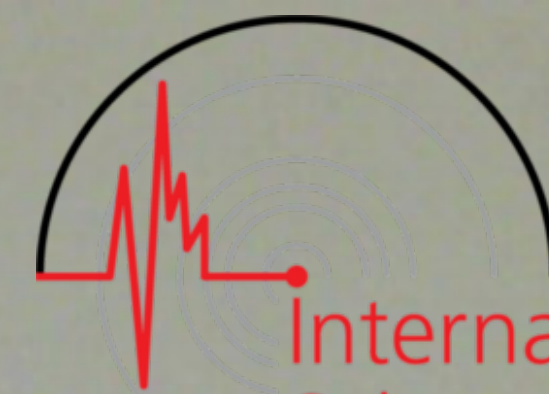
Altitude 1.395 m

| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|--------|-----------------|-----------------|-----------------|-----------|
| 1 | 2 | e | 04 ^R | 56 ^m | 47 ^s | |
| | | i | | 57 | 01 | D |
| | | i | | | 11 | C |
| 2 | 2 | i | 09 | 08 | 11 | D |
| | | | | 09 | 35 | C |
| 3 | 2 | iP | 12 | 59 | 44 | C |
| | | i | 13 | 00 | 18 | D |
| | | e | | | 53 | |
| | | e | | 02 | 12 | |
| 4 | 2 | eP | 18 | 06 | 54 | |
| | | i | | 07 | 01 | C |
| | | i | | | 07 | C |
| | | i(PP) | | | 30 | C |
| 5 | 3 | i | 18 | 22 | 05 | D |
| | | e | | | 09 | |
| 6 | 4 | eP | 19 | 51 | 44 | |
| 7 | 5 | traces | 18 | 37 | 35 | |
| | | e | | 39 | 02 | |
| | | i | | 40 | 35 | D |
| | | i | | | 45 | D |
| | | i | | 41 | 06 | D |
| | | e | | 49 | | |
| 8 | 9 | i | 10 | 46 | 54 | C |
| | | e | | 47 | 47 | |

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------|-------------------|-----------------|-----------------|-----------------|--|---|
| 9 | 13 | iP ₁ ' | 09 ^h | 06 ^m | 32 ^s | D Δ = 18.900 km. h = 600 km. | |
| | | eP ₂ ' | | 08 | 03 | | |
| | | eP ₂ ' | | 10 | 22 | | |
| | | ePP | | 12 | 01 | | |
| | | e(PPP) | | 15 | 51 | | |
| | | e | | 17 | 50 | | |
| | | e | | 18 | 04 | | |
| | | e | | 21 | 44 | | |
| 10 | 14 | i | 01 | 23 | 02 | D | |
| | | i | | | 05 | C | |
| | | e | | 24 | 33 | | |
| 11 | 14 | eP | 15 | 59 | 02 | Δ = 2.700 km. | |
| | | ePP | | | 34 | | |
| | | ePPP | | | 46 | | |
| | | eS | 16 | 03 | 47 | | |
| 12 | 14 | traces | 19 | 47 | 47 | | |
| | | e | | 49 | 41 | | |
| | | i | | 50 | 25 | C | |
| | | i | | | 43 | D | |
| | | i | | 51 | 07 | C | |
| 13 | 15 | traces | 02 | 11 | 14 | | |
| | | e | | 12 | 56 | | |
| | | e | | 16 | 50 | | |
| 14 | 15 | traces | 10 | 54 | 24 | enregistrement très perturbé. 3 secousses ressenties à Ferrata. | |
| | | e | | 57 | 57 | | |
| | | i | | 58 | 16 | | D |
| | | i | | | 25 | | D |
| | | i | | | 39 | | D |
| | | e | | | 49 | | |
| 15 | 15 | e | 19 | 41 | | enregistrement perturbé même que précédent. | |
| | | i | 20 | 14 | D | | |
| | | i | | 39 | D | | |
| | | i | 21 | 00 | D | | |
| | | i | 21 | 19 | C | | |
| | | e | | 41 | | | |



| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------|-------------------|-----------------|-----------------|-----------------|--|---|
| 16 | 15 | traces | 13 ^h | 29 ^m | 37 ^s | enregistrement perturbé même que précédent. | |
| | | traces | | 33 | 05 | | |
| 17 | 19 | traces | 13 | 56 | H1 | | |
| 18 | 19 | traces | 15 | 17 | 28 | C | |
| | | i | | 18 | 19 | | |
| 19 | 20 | eP | 06 | 54 | 04 | Δ = 2.600 km. | |
| | | ePP | | | 35 | | |
| | | ePPP | | | 46 | | |
| 20 | 20 | traces | 13 | H2 | 25 | | |
| | | e | | H3 | 00 | | |
| 21 | 20 | e | 15 | H8 | H0 | | |
| | | e | 16 | 00 | 32 | | |
| 22 | 20 | i | 16 | H2 | H3 | D | |
| | | i | | | H7 | D | |
| | | i | | | 52 | D | |
| | | i | | H3 | 07 | D | |
| 23 | 22 | e | 03 | 59 | 25 | | |
| 24 | 22 | eP ₁ ' | 05 | 54 | 12 | Δ = 18.500 km. | |
| | | eP ₂ ' | | 55 | 19 | | |
| | | ePP | | 59 | 19 | | |
| 25 | 23 | traces | 01 | 17 | 30 | | |
| 26 | 23 | e | 06 | H4 | 11 | Δ = 10.200 km. h = 100 km. | |
| | | iP | | | 15 | | C |
| | | i | | | 19 | | C |
| | | iPP | | | 36 | | C |
| | | i | | | H0 | | C |
| | | iSP | | | H5 | | C |
| | | iPP | | H7 | 57 | | D |
| | | i (iPP) | | H8 | 14 | | C |
| 27 | 24 | e | 05 | 17 | 26 | | |



| N° | Date | Phase | Heure | | | Remarques | | |
|----|------|------------------|-----------------|-----------------|-----------------|-----------|--|---|
| | | | T.U. | | | | | |
| 27 | 24 | e | 05 ^h | 17 ^m | 35 ^s | | | |
| 28 | 24 | iP' | 09 | 35 | 49 | D | $\Delta = 19.700 \text{ km.}$ $h = 100 \text{ km.}$ | |
| | | eP' | | 36 | 11 | | | |
| | | eS P' | | 37 | 25 | | | |
| | | eP' ₂ | | | 40 | | | |
| | | iPP | | 41 | 33 | | | D |
| | | i | | 44 | 40 | | | C |
| | | i | | 46 | 10 | | | C |
| | | e | | 48 | 14 | | | |
| | | e | | 59 | | | | |
| | | e | 51 | 59 | | | | |
| 29 | 26 | i | 23 | 51 | 48 | D | | |
| 30 | 27 | eP' | 07 | 37 | 44 | D | $\Delta = 15.600 \text{ km.}$ | |
| | | ePP | | 40 | 36 | | | |
| 31 | 27 | e | 11 | 17 | 48 | | | |
| 32 | 27 | eP' | 15 | 18 | 12 | D | $\Delta = 15.600 \text{ km.}$ Réplique du n° 30 | |
| | | ePP | | 21 | 05 | | | |
| 33 | 28 | eP | 08 | 26 | 20 | D | $\Delta = 5.200 \text{ km. Ca.}$ | |
| | | i | | | 27 | | | |
| | | eS | | 33 | 10 | | | |
| 34 | 28 | traces | 23 | 44 | 27 | | | |
| 35 | 29 | i | 05 | 43 | 52 | D | | |
| | | i | | 44 | 07 | D | | |
| 36 | 29 | traces | 17 | 54 | 06 | | | |
| 37 | 30 | e | 01 | 57 | 23 | D | | |
| | | i | | | 30 | | | |
| 38 | 31 | traces | 00 | 33 | 35 | | | |
| | | traces | | 35 | 12 | | | |
| 39 | 31 | traces | 01 | 07 | 23 | | | |

J. Castet,
Melle A. Grandjean.

OBSERVATOIRE DE TAMANRASSET

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BULLETIN SÉISMIQUE PROVISOIRE

FÉVRIER 1949

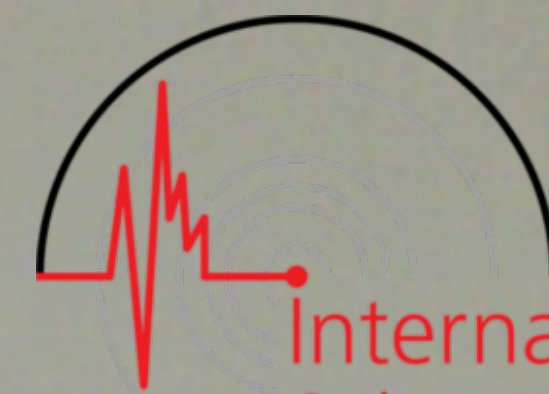
Longitude 5° 31'4 E Gr.

Latitude 22° 47'5 N

Altitude 1.395 m.

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|-----------------|-------|-----------------|-----------------|-----------------|--|---------------|
| 1 | 1 ^{er} | e | 14 ^h | 23 ^m | 36 ^s | | |
| 2 | 1 ^{er} | eP' | 18 | 35 | 02 | Δ = 13.800 km. | |
| | | ePP | | 36 | 59 | | |
| | | e | | 47 | 01 | | |
| | | e | | | 56 | | |
| 3 | 2 | eP | 17 | 55 | 15 | Δ = 11.500 km h = 200 km | |
| | | iPP | | 56 | 00 | | D |
| | | e | | 58 | 35 | | |
| | | ePP | | 59 | 35 | | |
| | | iPP | 18 | 00 | 25 | | C |
| | | i | | | 39 | | D |
| | | ePPP | | 01 | 52 | | |
| i | | 11 | 18 | D | | | |
| 4 | 3 | e | 16 | 49 | 31 | masqué par agitation microsismique. | |
| 5 | 3 | e | 22 | 34 | 50 | | |
| 6 | 4 | e | 15 | 49 | 30 | | |
| | | e | | | 41 | | |
| | | e | | 54 | 54 | | |
| 7 | 5 | iP | 00 | 33 | 54 | C | Δ = 2.980 km. |
| | | i | | 34 | 01 | C | |
| | | i | | | 12 | D | |
| | | ePP | | | 36 | | |
| | | ePPP | | | 49 | | |
| | | e | | 36 | 21 | | |
| eS | | 38 | 14 | | | | |

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------|-----------------|-----------------|-----------------|-----------------|------------------|---|
| 8 | 5 | e | 01 ^h | 05 ^m | 19 ^o | | |
| | | e | | 07 | 21 | | |
| | | e | | 09 | 26 | | |
| 9 | 5 | e | 09 | 06 | 04 | | |
| | | e | | 08 | 20 | | |
| 10 | 5 | eP | 15 | 28 | 52 | Réplique du n° 7 | |
| | | i | | | 59 | | C |
| | | iPP | | 29 | 34 | | D |
| 11 | 5 | traces | 20 | 29 | 41 | | |
| 12 | 6 | i | 08 | 57 | 07 | D | |
| | | i | | | 11 | D | |
| 13 | 6 | e | 09 | 36 | 16 | | |
| | | e | | | 51 | | |
| | | e | | 37 | 27 | | |
| 14 | 9 | e | 13 | 33 | 59 | | |
| 15 | 9 | traces | 17 | 50 | 25 | | |
| 16 | 10 | eP ₁ | 22 | 16 | 53 | Δ = 19.200 km. | |
| | | eP ₂ | | 18 | 18 | | |
| | | ePP | | 22 | 09 | | |
| | | ePPP | | 26 | 07 | | |
| 17 | 11 | e | 03 | 59 | 11 | | |
| | | e | | | 40 | | |
| 18 | 11 | traces | 14 | 56 | 34 | | |
| | | i | | 57 | 33 | D | |
| | | i | | | 49 | C | |
| | | e | | 59 | 21 | | |
| 19 | 13 | iP ₁ | 18 | 44 | 27 | C | |
| | | iP ₂ | | 45 | 40 | D | |
| | | e | | 46 | 24 | | |
| | | ePP | | 49 | 27 | | |
| | | i | | 51 | 28 | C | |



| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|--------|-----------------|-----------------|-----------------|-----------|
| 19 | 13 | iPPP | 18 ^h | 53 ^m | 43 ^s | C |
| 20 | 13 | i | 20 | 55 | 40 | C |
| | | l | | 56 | 11 | D |
| | | e | | | 37 | |
| 21 | 14 | i | 16 | 44 | 25 | C |
| | | e | | | 42 | |
| | | i | | 49 | 05 | D |
| 22 | 14 | traces | 19 | 00 | 26 | |
| | | e | | | 46 | |
| 23 | 14 | e | 22 | 36 | 41 | |
| 24 | 15 | e | 22 | 27 | 58 | |
| 25 | 16 | i | 11 | 56 | 19 | C |
| | | e | | 57 | 04 | |
| | | e | 12 | 00 | 49 | |
| | | i | | 01 | 34 | D |
| | | e | | 08 | 48 | |
| 26 | 16 | e | 15 | 17 | 42 | |
| | | e | | 18 | 59 | |
| 27 | 17 | eP | 21 | 04 | 03 | |
| | | iPP | | | 12 | D |
| | | iPPP | | | 17 | D |
| | | iS | | 06 | 37 | D |
| | | i | | | 49 | D |
| | | e | | 07 | 03 | |
| | | i | | | 57 | D |
| | | i | | 08 | 21 | C |
| 28 | 19 | iP' | 01 | 15 | 38 | C |
| | | i | | | 51 | D |
| | | e | | 16 | 15 | |
| | | i | | | 26 | C |
| | | e | | | 53 | |
| 29 | 19 | i | 02 | 46 | 12 | C |

$\Delta = 1480$ km.
destructeur à Ferrata
(Constantine)

| N° | Date | Phase | Heure T.U. | | | Remarques |
|--|------|--|-----------------|-----------------|---|--------------------------------------|
| 29 | 19 | traces | 02 ^h | 47 ^m | 48 ^s | |
| 30 | 21 | i | 02 | 38 | 55 | D |
| Pas d'enregistrement du 21, 7 ^h 34 ^m au 22, 7 ^h 56 ^m . | | | | | | |
| 31 | 23 | i e | 15 | 33 | 21 42 | C |
| 32 | 23 | eP i i iPcP i ePP ePPP eS | 16 | 19 | 04 02 18 24 55 21 35 23 14 27 58 | C C C D |
| Δ = 7.500 km. | | | | | | |
| 33 | 23 | i | 16 | 47 | 35 | C dans le précédent. |
| 34 | 24 | i i i | 05 | 38 | 53 58 25 | C D D enregistrement perturbé. |
| 35 | 24 | e i e e | 23 | 11 | 04 08 36 54 | C |
| 36 | 26 | e i i e | 00 | 49 | 13 49 50 26 51 15 | D D |
| 37 | 27 | i e | 10 | 04 | 37 44 | C |
| 38 | 27 | e i i | 10 | 44 | 06 14 46 12 | C D |



| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------|-------|-----------------|-----------------|-----------------|-----------|---|
| 39 | 28 | i | 00 ^h | 25 ^m | 40 ^s | D | |
| | | i | | | 42 | D | |
| | | i | | 25 | | 49 | D |
| | | e | | 26 | | 34 | |
| 40 | 28 | e | 11 | 25 | 39 | | |
| | | i | | | 43 | D | |
| | | i | | | 55 | D | |

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MARS 1949

Longitude 5° 31'4 E Gr.

Latitude 22° 47'5 N.

Altitude 1.395 m.

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------|---------|------------|----|----|---------------------------|-----------------------------|
| | | | h | m | s | | |
| 1 | 2 | eP | 07 | 03 | 22 | Δ = 5.000 km. | |
| | | i | | | 30 | | D |
| | | i | | | 40 | | D |
| | | ePP | | 05 | 17 | | |
| | | eS | | 09 | 58 | | |
| 2 | 2 | e | 07 | 46 | 50 | au changement de feuille. | |
| 3 | 3 | traces | 04 | 56 | 35 | | |
| | | e | | 57 | 00 | | |
| 4 | 4 | iP | 01 | 30 | 33 | D | Δ = 10.500 km. 97.8 |
| | | i | | | 44 | D | |
| | | iPP | | 34 | 24 | D | |
| | | eS | | 41 | 45 | | |
| | | eSS | | 47 | 53 | | |
| 5 | 4 | e | 08 | 39 | 10 | | |
| | | e | | 40 | 05 | | |
| 6 | 4 | eP | 10 | 28 | 54 | | Δ = 6.300 km h = 200 km. |
| | | i | | | 55 | C | |
| | | iPP | | 29 | 43 | C | |
| | | e | | 33 | 29 | | |
| | | iS | | 36 | 26 | D | |
| | | e | | 37 | 55 | | |
| | | e (S.S) | | 40 | 29 | | |
| | | e | | 58 | 17 | | |
| 7 | 6 | i | 16 | 44 | 39 | | C |
| | | e | | 45 | 03 | | |

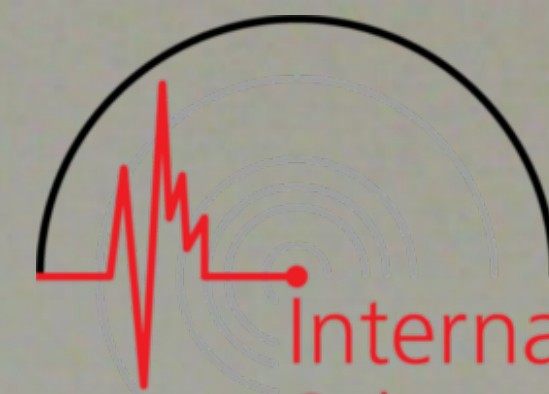
| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|--|-----------------------|-----------------------|-----------------------|-----------|
| 8 | 7 | traces traces | 14 ^h 15 | 56 ^m 02 | 54 ^s 48 | |
| 9 | 9 | traces | 14 | 29 | 36 | |
| 10 | 9 | e P ₁ ' e i p P ₁ ' i P ₂ ' e p P ₂ ' e PP e PPP | 15 | 15 | 26 | |
| | | | | | 35 | |
| | | | | | 09 | D |
| | | | | 16 | 55 | D |
| | | | | 17 | 37 | |
| | | | | 20 | 45 | |
| | | | | 24 | 40 | |
| 11 | 10 | e i e e | 21 | 31 | 45 | |
| | | | | | 54 | C |
| | | | | 32 | 30 | |
| | | | | 37 | 24 | |
| 12 | 11 | i | 22 | 40 | 38 | D |
| 13 | 13 | i P e i p P i Δ P | 18 | 55 | 29 | |
| | | | | | 35 | |
| | | | | 56 | 01 | C |
| | | | | | 23 | D |
| 14 | 14 | e | 17 | 57 | 36 | |
| 15 | 15 | traces | 17 | 22 | 28 | |
| 16 | 16 | i P' e p P' e PP e p PP | 22 | 34 | 42 | |
| | | | | | 59 | |
| | | | | 38 | 22 | |
| | | | | | 46 | |
| 17 | 17 | e | 03 | 22 | 13 | |
| 18 | 17 | i i(P') i p P' e PP e p PP | 21 | 24 | 47 | |
| | | | | | 55 | D |
| | | | | 25 | 10 | D |
| | | | | 28 | 32 | |
| | | | | | 57 | |

Δ = 19.000 km.
h = 180 km. Ca.

Δ = 9.200 km.
h = 150 km.

Δ = 15.800 km.
h = 50 km.

Réplique du n° 16



| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|---|-----------------|-----------------|-----------------|-----------|
| 19 | 17 | i e | 23 ^h | 13 ^m | 41 ^s | D |
| | | | | 17 | 15 | |
| 20 | 18 | e | 17 | 58 | 24 | |
| 21 | 22 | e i | 02 | 15 | 16 | |
| | | | | | 35 | D |
| 22 | 22 | e e e | 20 | 26 | 12 | |
| | | | | | 19 | |
| | | | | | 39 | |
| 23 | 23 | e e e | 06 | 55 | 53 | |
| | | | | 58 | 22 | |
| | | | | 59 | 28 | |
| 24 | 24 | iP i i | 19 | 36 | 07 | D |
| | | | | | 15 | D |
| | | | | | 32 | C |
| 25 | 24 | traces e | 21 | 14 | 54 | |
| | | | | 15 | 09 | |
| 26 | 27 | eP diffracté e iP ePP iPPP i i i(PS) | 06 | 49 | 37 | |
| | | | | 52 | 48 | |
| | | | | 52 | 57 | D |
| | | | | 54 | 15 | |
| | | | | 56 | 37 | C |
| | | | | 58 | 06 | D |
| | | | | | 55 | D |
| | | | 07 | 03 | 59 | D |
| 27 | 27 | i e | 12 | 05 | 02 | D |
| | | | | 08 | 58 | |
| 28 | 28 | traces | 06 | 32 | 51 | |
| 29 | 30 | eP' ₁ eP' ₂ ePP | 15 | 07 | 59 | |
| | | | | 09 | 28 | |
| | | | | 13 | 22 | |
| 30 | 31 | e | 21 | 59 | 36 | |

Δ = 19.200 km.

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Mlle A. Grandjean.

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AVRIL, MAI 1949

Longitude 5° 31'4 E Gr.

Latitude 22° 47'5 N.

Altitude 1.395 m.

Arrêt de la station du 14 au 19 pour installations de nouveaux appareils dans une cave.
Coordonnées de la station sans changement.

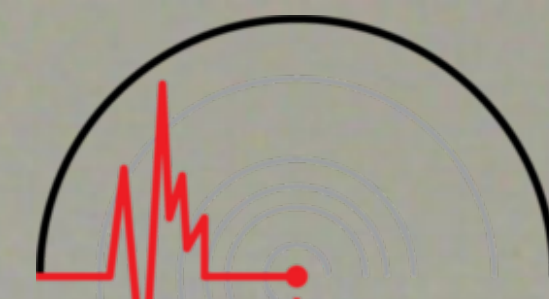
Cave dans le gneiss à une profondeur de 7^m 50.

Appareils: Un vertical courte période, amplification maximum environ 40.000 pour une
seconde de période, les caractéristiques ne pourront être fournies qu'à l'automne prochain.

Un vertical faux Wenner période 90 secondes. Cet appareil est un appareil d'essai dont
les caractéristiques seront données ultérieurement s'il est maintenu en service.

Du 19 Avril au 28 Mai, la cave n'étant pas bien fermée, l'influence du vent sur le
courte période a perturbé l'enregistrement de bien des séismes.

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|---------|-----------------|--|-----------------|-----------------|-----------------|-----------|------------------------------|
| AVRIL 1 | 1 ^{er} | traces | 09 ^h | 17 ^m | 24 ^s | | |
| | | Arrêt du 14, 7 ^h 57 ^m au 19, 15 ^h 45 ^m . | | | | | |
| 2 | 20 | iP | 03 | 42 | 25 | C | Δ = 10.600 km. h = 70 km. |
| | | i | | | 28 | D | |
| | | i | | | 31 | C | |
| | | ipP | | | 44 | C | |
| | | iPP | | 46 | 17 | D | |
| | | i | | | 25 | D | |
| | | i(pPP) | | | 32 | D | |
| | | eSP | | 54 | 50 | | |
| | | eSSP | | 55 | 20 | | |
| | | iSS | | 59 | 52 | C | |
| | | iSSS | 04 | 00 | 46 | C | |
| | | iSSS | | 03 | 18 | D | |
| | | iP'D' | | 07 | 32 | D | |
| | | e | | 09 | 22 | | |
| | | LR | | 14 | | | |
| | | F | 05 | 50 | | | |



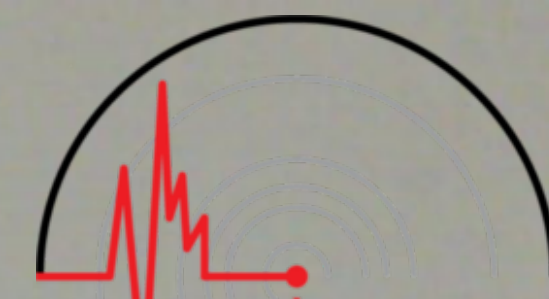
| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|---|-----------------|-----------------|--|--|
| 3 | 22 | e e | 17 ^h | 36 ^m | 17 ^s 37 59 | |
| 4 | 23 | ePP ePS e LR F | 11 12 13 | 35 11 41 | 16 52 | $\Delta = 12.000 \text{ km.}$ |
| 5 | 24 | iP iPP iS eSS L M F | 04 06 | 30 06 | 37 28 32 58 | D D D $\Delta = 5.270 \text{ km}$ |
| 6 | 25 | iP iPcP ipP isP iPP ipPP iPPP eS epS iSP iPS e(SS) LR (M) F | 14 16 | 07 01 | 25 27 52 12 16 10 31 40 56 30 41 52 | D C D D D D D C C $\Delta = 9.320 \text{ km.}$ $h = 100 \text{ km.}$ |
| 7 | 25 | e | 19 | 14 | 43 | |
| 8 | 25 | i i | 23 | 15 | 46 51 | C D |
| 9 | 30 | traces eP' diffracté i ePP | 01 | 38 | 17 59 07 07 | $\Delta = 12.800 \text{ km.}$ $h = 100 \text{ km.}$ C |

| N° | Date | Phase | Heure T.U. | | | Remarques |
|-----------|------|-----------------------|-----------------|-----------------|-----------------|-----------|
| 9 (suite) | 30 | epPP e (PKKP) e | 01 ^h | 38 ^m | 31 ^s | |
| | | | | 52 | 44 | |
| | | | | | 52 | |
| Mai 1 | 2 | e(L) | 11 | 02 | | |
| 2 | 3 | iP | 06 | 10 | 32 | C |
| | | i | | | 37 | C |
| | | i | | | 44 | D |
| | | epP | | 11 | 07 | |
| | | e | | 13 | 01 | |
| | | i | | | 47 | C |
| | | i(PP) | | 15 | 20 | C |
| | | i | | | 25 | D |
| | | L | | 46 | | |
| | | F | 07 | 09 | | |
| 3 | 5 | e | 21 | 25 | 52 | |
| | | L | 22 | 10 | | |
| | | F | | 32 | | |
| 4 | 6 | (L) traces | 15 | 22 | | |
| 5 | 8 | iP | 21 | 36 | 51.5 | |
| | | iPcP | | | 53 | C |
| | | e | | 37 | 24 | |
| | | ipP | | | 26 | |
| | | L | 22 | 05 | | |
| 6 | 9 | iP | 13 | 49 | 16 | D |
| | | i | | | 50 | C |
| | | i | | 51 | 42 | D |
| | | iPP | | 52 | 58 | D |
| | | ePPP | | 54 | 54 | |
| | | eS | 14 | 00 | 06 | |
| | | L | | 17 | | |
| | | F | 16 | 29 | | |
| 7 | 12 | i | 10 | 31 | 35 | D |
| | | i | | | 36 | C |
| | | i | | | 41 | D |

$\Delta = 11.400 \text{ km.}$
 $h = 125 \text{ km ca.}$

$\Delta = 9.500 \text{ km.}$
 $h = 140 \text{ km ca.}$

$\Delta = 9.900 \text{ km.}$



| N° | Date. | Phase. | Heure T.U. | | | Remarques |
|----|-------|--------------------|-----------------|-----------------|-----------------|------------------|
| 8 | 15 | L | 20 ^h | 32 ^m | | |
| 9 | 14 | i | 22 | 40 | 03 ^Δ | D |
| 10 | 16 | traces | 04 | 51 | 05 | Δ 17.000 Km. ca. |
| | | eP' | | 52 | 11 | |
| | | e | | 54 | 26 | |
| | | e(PP) | | | 55 | |
| | | e(PPP) | 05 | 00 | 06 | |
| | | e | | 02 | 06 | |
| | | eL | | 32 | | |
| | | F | 06 | 50 | | |
| 11 | 17 | traces | 02 | 41 | 26 | |
| | | traces | | 43 | 53 | |
| | | traces | | 47 | 12 | |
| 12 | 21 | e | 08 | 03 | 08 | |
| | | e | | 04 | 56 | |
| | | e | | 08 | 47 | |
| | | e | | 11 | 50 | |
| 13 | 21 | e | 17 | 46 | 24 | |
| | | i | | | 27 | D |
| | | i | | | 29,5 | D |
| | | e | | | 40 | |
| 14 | 21 | traces | 21 | 57 | 44 | Δ = 11.900 Km. |
| | | i PP | | 58 | 51 | D |
| | | i | | | 57,5 | D |
| | | e PPP | 22 | 01 | 07 | |
| | | e(PS) | | 08 | 31 | |
| | | e(SSS) | | 19 | 19 | |
| | | eL | | 32 | | |
| | | e | 23 | 44 | | |
| | | F | 00 | 22 | | |
| 15 | 23 | i P ₁ ' | 04 | 37 | 36 | D |
| | | i | | | 53 | D |
| | | e P ₂ ' | | 38 | 57 | |
| | | i | | | 59 | D |
| | | e PP | 42 | 46 | | |

| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|---------|---------------------------------|-----------------|-----------------|-----------|
| 15 | 23 | traces | 04 ^h | 46 ^m | 10 ^s | |
| | | e PPP | | | 58 | |
| | | e (SSS) | 05 | 10 | 00 | |
| | | e | | 29 | | |
| | | eL | | 44 | | |
| | | F | -dans le changement de feuille. | | | |
| 16 | 23 | e | 05 | 43 | 54 | |
| | | i | | | 56,5 | C |
| | | i | | | 59 | D |
| 17 | 24 | traces | 02 | 48 | 41 | |
| | | e | | 50 | 30 | |
| | | e | | 54 | 30 | |
| | | traces | | 57 | 29 | |
| 18 | 25 | iP | 08 | 34 | 39 | D |
| | | i | | | 41,5 | D |
| | | i | | | 46 | C |
| | | iPcP | | | 53 | D |
| | | iPP | | 37 | 06 | D |
| | | | Δ = 7300 km. | | | |
| 19 | 25 | i | 23 | 45 | 37 | D |
| | | e | | | 41 | |
| | | e | | | 46 | |
| 20 | 26 | e | 15 | 05 | 35 | |
| | | e | | | 50 | |
| | | e | | 06 | 30 | |
| 21 | 30 | iP | 01 | 45 | 14 | D |
| | | iPcP | | | 23 | C |
| | | iPP | | | 42,5 | C |
| | | i | | | 44 | D |
| | | iSP | | | 57 | C |
| | | e(S) | | 55 | 29 | |
| | | e(pS) | | 56 | 21 | |
| | | | Δ = 9.400 km. h = 100 km. | | | |

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OBSERVATOIRE DE TAMANRASSET

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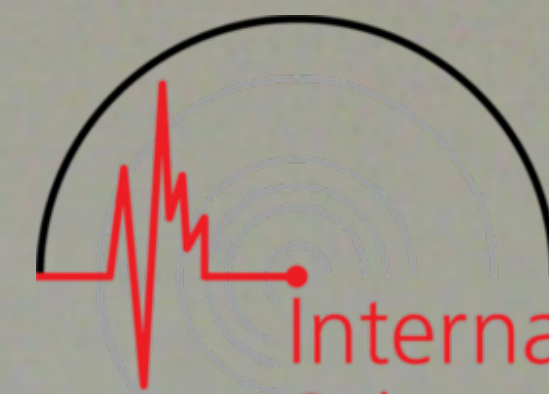
JUIN 1949

Longitude 5° 31'4 E Gr.

Latitude 22° 47'5 N

Altitude 1.395 m.

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------|-------------------|------------|----|------|---------------|---|
| | | | h | m | s | | |
| 1 | 9 | eP ₁ ' | 21 | 38 | 40 | Δ = 1.900 km. | |
| | | e | | 39 | 29 | | |
| | | iP ₂ ' | | 40 | 10 | | D |
| | | e | | 41 | 00 | | |
| | | ePP | | 44 | 00 | | |
| | | traces (PPP) | | 47 | 58 | | |
| | | traces | | 50 | 43 | | |
| 2 | 12 | traces | 04 | 42 | 45 | | |
| 3 | 12 | iP | 18 | 03 | 52 | C | Δ = 9.200 km. h = 600 km. dans le suivant |
| | | i | | 04 | 10 | D | |
| | | epP | | 05 | 59 | | |
| | | ePP | | 07 | 13 | | |
| | | e(SKS) | | 13 | 13 | | |
| | | eL | | 26 | | | |
| 4 | 12 | iP | 18 | 07 | 20 | D | perturbé par le précédent réplique. |
| | | i | | | 36 | C | |
| | | epP | | 09 | 26 | | |
| 5 | 13 | iP | 02 | 10 | 24 | C | |
| | | i | | | 34 | D | |
| | | i | | | 31,5 | D | |
| 6 | 14 | iP | 00 | 33 | 54 | D | Δ = 9.000 km. |
| | | ePcP | | 34 | 01 | | |
| | | e | | | 26 | | |
| | | i | | | 34 | D | |
| | | e | | | 44 | | |
| | | ePP | | 37 | 01 | | |
| | | e | | | 41 | | |



| N° | Date | Phase | Heure T.U | | Remarques | | |
|----|------|-----------------|-----------|----------|-----------------|-------------------|---------------|
| | | | h | m | | | |
| 6 | 14 | L F | 01 | 01 31 | | | |
| 7 | 16 | eP | 18 | 05 | 17 ^o | Δ = 4.200 km. ca. | |
| | | i | | | 20 | | D |
| | | e(PP) | | 06 | 00 | | |
| | | L | | 18 | | | |
| | | M ₁ | | 19 | | | |
| | | M ₂ | | 22 | | | |
| | | F | | 58 | | | |
| 8 | 17 | eP | 01 | 41 | 11 | | |
| | | e | | 48 | 24 | | |
| | | e | | 49 | 27 | | |
| | | L | | 50 | | | |
| | | F | 02 | 05 | | | |
| | | | | | | | |
| 9 | 17 | iP | 04 | 26 | 04 | C | Δ = 2.500 km. |
| | | ePP | | | 31 | | |
| | | iPcP | | 30 | 13 | C | |
| | | iS | | | 24 | C | |
| | | e | | | 31 | | |
| | | L | | 33 | 30 | | |
| | | F | | 42 | | | |
| 10 | 19 | e | 09 | 02 | 08 | | |
| | | i | | | 16 | | D |
| | | i | | | 26 | | C |
| | | L | 10 | 01 | | | |
| | | F | | 28 | | | |
| 11 | 19 | iP | 12 | 32 | 44 | D | Δ = 5.100 km. |
| | | i | | | 55 | D | |
| | | iPcP | | 34 | 21 | D | |
| | | iPP | | | 37 | D | |
| | | L | | 47 | | | |
| | | F | 13 | 00 | | | |
| 12 | 23 | eP ₁ | 22 | 46 | 57 | | |
| | | e | | 47 | 46 | | |
| | | iP ₁ | | | 49 | | C |
| | | e(PP) | | 50 | 33 | | |

| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|--------------------------|-----------------|-----------------|-----------------|------------------------------------|
| 12 | 25 | e(pPP) | 22 ^h | 51 ^m | 16 ^s | |
| 13 | 24 | iP | 22 | 52 | 37 | D $\Delta = 11.400 \text{ km ca.}$ |
| | | e | | 56 | 16 | |
| | | ePP | | | 45 | |
| 14 | 25 | traces (P ₁) | 19 | 37 | 23 | |
| | | traces (P ₂) | | 39 | 12 | |
| | | traces (PP) | | 43 | 04 | |
| | | traces | | 46 | 13 | |
| 15 | 26 | iP | 05 | 47 | 11 | D $\Delta = 2.600 \text{ km ca}$ |
| | | i | | | 15 | C |
| | | i | | | 21 | D |
| | | ePP | | | 40 | |
| | | ePPP | | | 49 | |
| | | e | | 53 | 25 | |
| 16 | 26 | traces | 06 | 14 | 26 | |
| 17 | 26 | traces | 08 | 57 | 10 | |
| | | traces | | 59 | 48 | |
| | | e P' | 09 | 00 | 06 | |
| 18 | 28 | e | 20 | 17 | 00 | |

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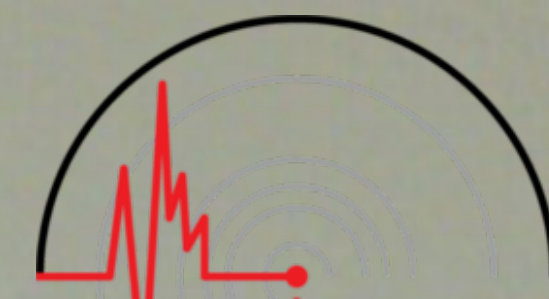
JUILLET 1949

Longitude 5° 31'4 E Gr.

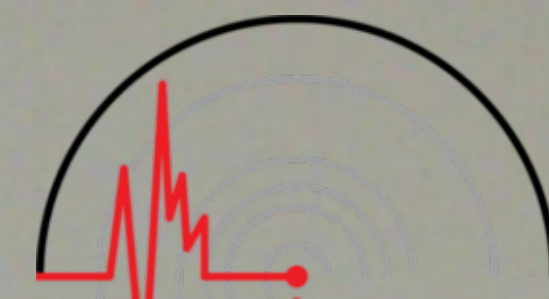
Latitude 22° 47'5 N

Altitude 1.395 m.

| N° | Date | Phase | Heure T.U. | | | | Remarques |
|----|-----------------|--------------------|------------|----|------|---|-------------------|
| | | | h | m | s | | |
| 1 | 1 ^{er} | e | 22 | 23 | 50 | | |
| 2 | 2 | i PKP ₁ | 11 | 47 | 25.5 | C | Δ = 1.600 km. Ca. |
| | | i PKP ₂ | | | 31 | D | |
| | | e | | | 59 | | |
| | | e(PP) | | 51 | 21 | | |
| | | L | 12 | 28 | | | |
| | | L | | | 46 | | |
| | | F | 13 | 57 | | | |
| 3 | 2 | e | 11 | 55 | 01 | | dans le précédent |
| | | i | | | 14 | C | |
| 4 | 2 | e PKP | 20 | 16 | 16 | | Δ = 14.100 km. |
| | | i | | | 18 | C | |
| | | e | | | 38 | | |
| | | ePP | | 18 | 09 | | |
| | | e | | | 20 | | |
| | | ePPP | | 21 | 00 | | |
| | | e | | 27 | 55 | | |
| | | L | | | 58 | | |
| F | 22 | 40 | | | | | |
| 5 | 3 | i | 21 | 58 | 48 | D | |
| | | e | | | 47 | | |
| | | e | | | 54 | | |
| 6 | 4 | i P | 03 | 49 | 09 | D | Δ = 5.100 km. |
| | | i | | | 17 | C | |
| | | e | | | 50 | | |
| | | i | | 50 | 11 | D | |
| | | e | | | 37 | | |

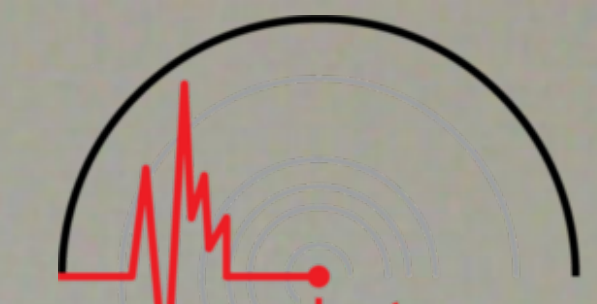


| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|-----------|-----------------|-----------------|-----------------|-----------------|--------------------------------|
| 6 | H (suite) | ePP | 03 ^h | 50 ^m | 57 ^s | (nouveau début?) |
| | | i | | 52 | 30 | D |
| | | iS | | 55 | 51 | D |
| | | e | 04 | 00 | 02 | |
| | | L | | 05 | 30 | |
| | | M | | 11 | 22 | |
| | | F | | 18 | | |
| 7 | H | eP | 04 | 31 | 07 | réplique probable du précédent |
| | | e | | | 15 | |
| | | e(PP) | | 33 | 02 | |
| 8 | H | i | 10 | 53 | 55 | D |
| | | e | | 54 | 00 | |
| 9 | H | traces | 11 | 08 | 00 | |
| | | d° | | 09 | 13 | |
| | | de | | 12 | 19 | |
| 10 | 5 | iP | 02 | 38 | 30 | réplique probable du n° 6. |
| | | i | | | 35 | D |
| | | i | | | 37 | D |
| | | ePP | | 40 | 23 | |
| | | L | | 54 | | |
| | | e | 03 | 00 | | |
| | | F | | 11 | | |
| 11 | 6 | iP* | 15 | 36 | 04,5 | local Δ = 65 km. Ca. |
| | | eP _n | | | 07 | |
| | | iS* | | | 13,5 | D |
| | | eS _n | | | 15 | |
| 12 | 6 | iP* | 16 | 59 | 19,5 | local réplique probable |
| | | eP _n | | | 21 | du précédent |
| | | iS _g | | | 26 | D |
| | | eS* | | | 27,5 | |
| | | eS _n | | | 30,5 | |
| 13 | 6 | traces | 20 | 04 | 59 | |
| 14 | 6 | i | 23 | 56 | 46 | C |
| | | e | | | 51 | |



| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|---|-----------------|-----------------|--|--|
| 15 | 7 | traces s° | 02 ^h | 12 ^m | 51 ^s 57 | |
| 16 | 7 | traces iPP i ePPP ePcP e | 04 | 38 | 01 39 45 55 40 43 49 | $\Delta = 4.200 \text{ km.}$ D C |
| 17 | 7 | traces | 11 | 01 | 44 | |
| 18 | 7 | eP i ePP | 12 | 26 | 13 15 43 | $\Delta = 2.600 \text{ km.}$ D |
| 19 | 7 | e e | 22 | 35 | 13 36 03 | |
| 20 | 8 | e e | 08 | 00 | 26 49 | |
| 21 | 8 | e e | 08 | 12 | 04 16 | |
| 22 | 8 | eP e ePP | 18 | 26 | 58 27 28 55 | $\Delta = 5.500 \text{ km.}$ |
| 23 | 9 | e i e | 00 | 49 | 24 25 36 | D |
| 24 | 9 | i i e | 18 | 55 | 39 49 56 08 | D D $\Delta = 6.500 \text{ km.}$ |
| 25 | 10 | iP i ePcP ePP ePPP | 04 | 03 | 25 31 04 05 06 13 33 59 | D D |

| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------------|--|------------|----|----|----------------------------------|
| 25 | 10 (suite) | eS L M ₁ M ₂ F | 07 | 11 | 32 | |
| | | | | 20 | | |
| | | | | 24 | | |
| | | | | 34 | | |
| | | | 07 | 55 | | |
| 26 | 10 | eP | 04 | 44 | 09 | dans le précédent - probablement |
| 27 | 10 | e | 04 | 53 | 00 | réplique δ° |
| 28 | 10 | e | 04 | 56 | 42 | δ° |
| 29 | 10 | traces | 05 | 11 | 11 | δ° |
| 30 | 10 | eP ePcP ePP | 05 | 25 | 16 | δ° |
| | | | | 26 | 04 | |
| | | | | 27 | 27 | |
| 31 | 10 | e | 09 | 20 | 12 | réplique du n° 25 |
| 32 | 10 | i | 10 | 53 | 45 | C δ° |
| 33 | 10 | e e e | 11 | 05 | 35 | δ° |
| | | | | | 38 | |
| | | | | 07 | 18 | |
| 34 | 10 | eP e iPP | 12 | 05 | 30 | δ° |
| | | | | 07 | 39 | |
| | | | | | 45 | D |
| 35 | 10 | e | 14 | 23 | 12 | δ° |
| 36 | 10 | i | 15 | 18 | 38 | D δ° |
| 37 | 10 | iP ePP | 15 | 28 | 49 | D δ° |
| | | | | 30 | 56 | |
| 38 | 10 | eP i ePcP ePP eS | 15 | 59 | 04 | δ° |
| | | | | | 09 | D |
| | | | | | 52 | |
| | | | 16 | 01 | 22 | |
| | | | | 07 | 09 | |



| N° | Date | Phase | Heure T.U. | | | | Remarques | | |
|----|------|-------------------|-----------------|-----------------|-----------------|----|---------------------|----|----|
| 39 | 10 | iP | 16 ^h | 33 ^m | 50 ^s | D | réplique du n° 25 | | |
| | | i | | | | C | | | |
| | | iPP | | | | 35 | | 59 | D |
| | | ePPP | | | | 37 | | 38 | |
| | | eS | | | | 41 | | 48 | |
| 40 | 10 | i | 17 | 50 | 35 | D | ∅° | | |
| 41 | 10 | e | 19 | 04 | 33 | | ∅° | | |
| 42 | 10 | e | 23 | 19 | 45 | | ∅° | | |
| 43 | 11 | e | 01 | 22 | 13 | | ∅° | | |
| 44 | 11 | traces | 04 | 05 | 25 | | ∅° | | |
| 45 | 11 | traces | 16 | 25 | 16 | | | | |
| | | e | | | | 27 | | 50 | |
| | | e | | | | 28 | | 54 | |
| | | i | | | | 29 | | 07 | C |
| | | i | | | | | | 24 | C |
| 46 | 11 | ePKP ₁ | 16 | 46 | 51 | | Δ = 18.300 Km. | | |
| | | e | | | | 47 | | 54 | |
| | | ePKP ₂ | | | | 48 | | 07 | |
| | | i | | | | | | 16 | D |
| | | ePP | | | | 51 | | 40 | |
| | | e | | | | 52 | | 14 | |
| | | e | | | | 58 | | 46 | |
| 47 | 12 | i | 08 | 14 | 16 | D | | | |
| | | e | | | | | | | 38 |
| 48 | 13 | e | 10 | 23 | 43 | | Réplique du n° 25 ? | | |
| | | e | | | | | | 49 | |
| | | e | | | | | | 25 | 24 |
| | | e | | | | | | 31 | 06 |
| | | e | | | | | | | 44 |
| 49 | 13 | e | 18 | 38 | 13 | | ∅° | | |
| 50 | 14 | e | 03 | 45 | 22 | | ∅° | | |

| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|---|-----------------|-----------------|----------------------------------|---|
| 51 | 14 | e e | 23 ^h | 38 ^m | 58 ^s 40 | |
| 52 | 15 | iPKP ₁ ePKP ₂ i ePP | 09 | 35 | 15 25 47 27 | D D $\Delta = 16.000 \text{ km.}$ |
| 53 | 15 | e e e e | 11 | 14 | 10 27 19 41 | |
| 54 | 15 | e e e | 11 | 37 | 00 04 22 | |
| 55 | 18 | traces | 00 | 51 | 45 | |
| 56 | 18 | e e e | 05 | 00 | 35 53 36 | |
| 57 | 19 | iP* eP _n eS _g eS* eS _n | 11 | 19 | 29 31 35 37 41 | D local 65 km. ca. |
| 58 | 19 | i e ePcP ePP ePPP | 13 | 38 | 46 39 04 33 02 33 | D $\Delta = 6.800 \text{ km.}$ |
| 59 | 19 | eP i i ePP | 17 | 52 | 02 03 09 04 | $\Delta = 6.200 \text{ km.}$ C D |
| 60 | 20 | traces PR, | 22 | 37 | 55 | |



| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|--------------------|-----------------|-----------------|-------------------|----------------------------------|
| 61 | 21 | eP | 08 ^h | 14 ^m | 06,5 ^s | Δ = 9.300 Km. h = 115 Km. Ca. |
| | | i | | | 08 | C |
| | | iPcP | | | 13 | D |
| | | i | | | 20 | D |
| | | epP | | | 36 | |
| | | i | | | 37.5 | D |
| | | e | | | 41 | |
| | | e | | | 53 | |
| 62 | 21 | e | 17 | 06 | 09 | |
| 63 | 21 | e | 21 | 34 | 53 | |
| | | e | | 36 | 47 | |
| 64 | 23 | e | 06 | 10 | 00 | |
| 65 | 23 | Traces | 07 | 09 | 23 | |
| | | e | | | 31 | |
| 66 | 23 | iPKP ₁ | 10 | 40 | 33 | D |
| | | ipPKP ₁ | | 47 | 20 | C |
| | | iPKP ₂ | | | 30 | D |
| | | ipPKP ₂ | | 48 | 18 | D |
| | | i | | 49 | 33 | D |
| | | e } PP | | 51 | 21 | |
| | | i } PP | | | 26 | C |
| | | epPP | | | 56 | |
| | | i | | 52 | 08 | C |
| | | e | | 57 | 21 | |
| | | L | 11 | 41 | | |
| | | M | 12 | 02 | | |
| | | F | | 39 | | |
| 67 | 23 | iP | 15 | 08 | 45 | C |
| | | i | | | 50 | D |
| | | epP | | 09 | 15 | |
| | | ePPP | | | 27 | |
| | | e | | | 38 | |
| | | i | | | 51 | D |
| | | i | | | 54 | D |
| | | i | | 12 | 45 | C |
| | | i(S) | | 13 | 15 | C |

| N° | Date | Phase | Heure T.U. | | | Remarques | | |
|----|------------|-------------------|-----------------|-----------------|----|-----------|--------------------|---|
| 67 | 23 (Suite) | L | 15 ^h | 15 ^m | 0 | | | |
| | | M ₁ | | 19 | | | | |
| | | M ₂ | | 22 | | | | |
| | | F | 17 | 13 | | | | |
| 68 | 24 | e | 10 | 22 | 39 | | | |
| 69 | 24 | e | 10 | 38 | 29 | | | |
| 70 | 24 | traces | 18 | 31 | 41 | | | |
| | | i | | 32 | 16 | D | | |
| 71 | 25 | traces | 11 | 43 | 32 | | | |
| | | e | | 45 | 18 | | | |
| 72 | 27 | iPKP ₁ | 15 | 31 | 50 | D | Δ = 19.200 km. | |
| | | i | | | 59 | D | | |
| | | i | | | 33 | 08 | | D |
| | | iPKP ₂ | | | 21 | C | | |
| | | iPP | | | 37 | 09 | | D |
| | | i | | | 40 | 29 | | D |
| | | ePPP | | | 41 | 37 | | |
| | | L | | | 16 | 30 | | |
| | | M | | | | 40 | | |
| | | F | | | 17 | 33 | | |
| 73 | 28 | e | 03 | 49 | 00 | | | |
| | | i | | | 25 | D | | |
| | | e | | | 32 | | | |
| 74 | 30 | eP | 17 | 52 | 20 | | | |
| | | i | | | 25 | C | réplique du n° 67. | |
| | | ePP | | | 51 | | | |
| | | ePPP | | | 53 | 01 | | |
| | | e | | | | 13 | | |
| 75 | 30 | e | 18 | 18 | 46 | | | |
| 76 | 31 | traces | 04 | 27 | 16 | | | |
| | | e | | | 22 | | | |

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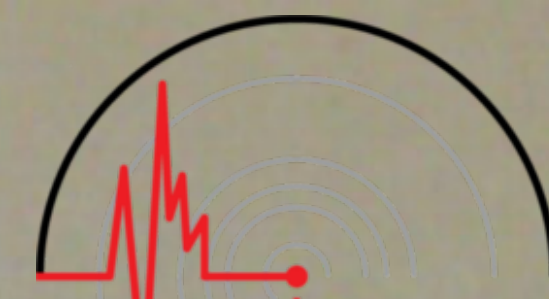
AOÛT 1949

Longitude 5° 31'4 E Gr.

Latitude 22° 47'5 N

Altitude 1.395 m.

| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|-------------|------------|----|------|---|
| | | | h | m | s | |
| 1 | 14 | traces | 07 | 49 | 58 | |
| | | e | | 52 | 14 | |
| 2 | 14 | e | 15 | 30 | 30 | |
| | | e | | 31 | 44 | |
| 3 | 14 | e | 22 | 47 | 38 | |
| | | i | | | 41 | D |
| | | e | | | 54 | |
| 4 | 3 | traces | 15 | 54 | 50 | ressenti à Miliana, Affreville (Alger) |
| 5 | 3 | eP | 20 | 35 | 28 | |
| | | i | | | 32 | C |
| | | e | | | 37 | |
| | | ePcP | | | 45 | |
| | | traces (PP) | | 38 | 16 | |
| 6 | 4 | eP | 21 | 28 | 46.5 | |
| | | e(PP) | | | 52 | |
| | | e(PPP) | | 29 | 00 | |
| | | eS | | 31 | 14 | |
| | | eSS | | | 26 | |
| | | i | | 32 | 48 | D |
| | | F | | 43 | | |
| 7 | 5 | e | 00 | 25 | 46 | |
| 8 | 5 | i | 07 | 23 | 10 | D |
| | | i | | | 15 | C |
| | | e | | | 35.5 | |



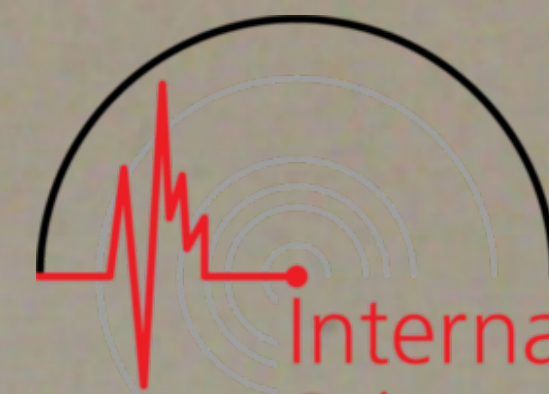
| N° | Date | Phase | Heure T.U. | | | Remarques |
|--|------|---|-----------------|-----------------|-----------------|-----------|
| 9 | 5 | i e e | 08 ^h | 02 ^m | 07 ^s | D |
| | | | | | 14 | |
| | | | | | 38 | |
| 10 | 5 | e e e | 19 | 15 | 33 | |
| | | | | | 37 | |
| | | | | | 53 | |
| 11 | 5 | eP ePcP i ePP ePPP eS eSS eSSS L L F | 19 | 21 | 24 | |
| | | | | | 28 | |
| | | | | | 37 | D |
| | | | | 24 | 37 | |
| | | | | 26 | 45 | |
| | | | | 31 | 58 | |
| | | | | 38 | | |
| | | | | 41 | | |
| | | | | 49 | | |
| | | | | 55 | | |
| | | | 21 | 33 | | |
| 12 | 5 | i | 22 | 37 | 09 | D |
| 13 | 6 | iPKP ₁ i e iPKP ₂ iPP eSKS e e(PPP) e L F | 00 | 55 | 42 | D |
| | | | | | 47 | C |
| | | | | 56 | 00 | |
| | | | | 57 | 21 | C |
| | | | 01 | 01 | 19 | C |
| | | | | 02 | 23 | |
| | | | | 04 | 39 | |
| | | | | 05 | 14 | |
| | | | | 08 | 21 | |
| | | | | 58 | | |
| | | | 02 | 19 | | |
| Arrêt du Courte période du 7,7 ^h au 8,8 heures. | | | | | | |
| 14 | 8 | e e L F | 07 | 28 | 08 | |
| | | | | | 30 | 03 |
| | | | | | 44 | |
| | | | 08 | 51 | | |
| 15 | 8 | e | 14 | 23 | 39 | |

$\Delta = 9.500 \text{ Km.}$

$\Delta = 19.500 \text{ Km.}$

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|---|------|----------------|-----------------|-----------------|-----------------|----------------|---|
| 16 | 8 | e | 19 ^h | 20 ^m | 11 ^s | | |
| | | e | | 26 | 13 | | |
| | | e | | 31 | 23 | | |
| | | L ₁ | | 51 | | | |
| | | L ₂ | | 56 | | | |
| | | F | 20 | 21 | | | |
| Arrêt du Courte période du 9,7 ^h au 18, 6 ^h 40 ^m . | | | | | | | |
| 17 | 11 | e | 14 | 59 | | | |
| | | F | 15 | 21 | | | |
| 18 | 18 | eP | 13 | 46 | 02 | Δ = 9.500 Km. | |
| | | iPcP | | | 05 | | C |
| | | i | | | 15 | | C |
| | | ePP | | 49 | 24 | | |
| | | eS | | 56 | 31 | | |
| | | L | 14 | 18 | | | |
| | | F | | 45 | | | |
| 19 | 21 | i | 20 | 44 | 13 | D | |
| 20 | 22 | e | 03 | 36 | 13 | | |
| | | i | | | 15 | C | |
| | | e | | | 53 | | |
| 21 | 22 | traces | 04 | 14 | 43 | Δ = 10.800 Km. | |
| | | eP | | | 49 | | |
| | | iPP | | 18 | 46 | | D |
| | | iPPP | | 20 | 37 | | D |
| | | eS | | 26 | 11 | | |
| | | e(PS) | | 27 | 52 | | |
| | | e | | 29 | 28 | | |
| | | eSS | | 32 | 52 | | |
| | | L | | 42 | | | |
| | | F | | dans le suivant | | | |
| 22 | 22 | i | 07 | 24 | 56 | D | |
| | | e | | 25 | 02 | | |
| | | e | | | 07 | | |
| | | i | | | 29 | C | |

| N° | Date | Phase | Heure T.U. | | | Remarques | | |
|----|------|-------|-----------------|-----------------|------|-----------|-------------------------------|--|
| 23 | 22 | iP | 09 ^h | 01 ^m | 49.5 | C | $\Delta = 7.000 \text{ km.}$ | |
| | | e | | 02 | 00 | | | |
| | | ePcP | | | 10 | D | | |
| | | i | | 03 | 06 | | | |
| | | ePP | | 04 | 11 | | | |
| | | eS | | 10 | 28 | | | |
| | | L | | 23 | | | | |
| F | 10 | 23 | | | | | | |
| 24 | 22 | i | 14 | 58 | 56 | D | | |
| | | i | | | 58 | C | | |
| | | i | | | 12 | C | | |
| | | e | | | 32 | | | |
| | | L | 15 | 27 | | | | |
| | | F | | 40 | | | | |
| 25 | 22 | eP | 20 | 33 | 59 | C | $\Delta = 4.700 \text{ km.}$ | |
| | | i | | 34 | 05 | | | |
| | | e | | | 49 | | | |
| | | ePP | | 35 | 50 | | | |
| | | L | | 48 | | | | |
| | | F | | 57 | | | | |
| 26 | 23 | e | 13 | 47 | 18 | C | | |
| | | i | | | 29 | | | |
| | | e | | | 32 | | | |
| 27 | 23 | iP | 15 | 26 | 13 | D | $\Delta = 9.700 \text{ km.}$ | |
| | | i | | | 23 | D | | |
| | | e | | | 40 | | | |
| | | ePP | | 29 | 46 | | | |
| | | L | 16 | 01 | | | | |
| | | F | | 28 | | | | |
| 28 | 23 | eP | 20 | 38 | 02 | | $\Delta = 10.600 \text{ km.}$ | |
| | | ePP | | 41 | 52 | | | |
| | | ePPP | | 43 | 58 | | | |
| | | e | | 47 | 28 | | | |
| | | e(S) | | 48 | 52 | | | |
| | | e(PS) | | 50 | 40 | | | |
| | | L | 21 | 09 | | | | |
| | | F | | | | | | |
| | | | | dans le suivant | | | | |



| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|-------------------------------------|-----------------|-----------------|-----------------|----------------------------------|
| 29 | 23 | iP e ePP L F | 22 ^h | 13 ^m | 44 ^s | D Δ = 6.600 km. |
| | | | | 14 | 02 | |
| | | | | 15 | 59 | |
| | | | | 30 | | |
| | | | 23 | 25 | | |
| 30 | 24 | traces | 12 | 58 | 54 | |
| 31 | 25 | e e e | 05 | 55 | 47 | dans le changement de feuille |
| | | | | | 57 | |
| | | | | 56 | 14 | |
| 32 | 25 | i PKP i ePP i e ePPP | 23 | 44 | 41.5 | Δ = 13.500 km. |
| | | | | | 44 | C |
| | | | | 46 | 24 | |
| | | | | | 30 | D |
| | | | | 48 | 07 | |
| | | | | | 51 | |
| 33 | 28 | e | 19 | 29 | 43 | |
| 34 | 29 | i | 00 | 24 | 57 | C |
| 35 | 30 | e e e | 16 | 56 | 50 | |
| | | | | | 58 | |
| | | | | 57 | 04 | |

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OBSERVATOIRE DE TAMANRASSET

DIRECTEUR: G. GRENET

BULLETIN SÉISMIQUE PROVISOIRE

SEPTEMBRE 1949

Longitude 5° 31'4"E Gr.

Latitude 22° 47'5"N

Altitude 1.395 m

| N° | Date | Phase | Heure T.U. | | | Remarques |
|--|-----------------|---|-----------------|-----------------|----------------------------------|----------------|
| 1 | 1 ^{er} | e e | 02 ^h | 21 ^m | 49 ^d 59 | |
| 2 | 1 ^{er} | traces | 14 | 17 | 13 | |
| 3 | 1 ^{er} | i e e | 16 | 39 | 41 11 47 | D |
| 4 | 2 | e e e | 01 | 54 | 50 55 08 | |
| 5 | 5 | traces | 03 | 12 | 25 | |
| 6 | 5 | traces e | 03 | 35 36 | 59 50 | |
| 7 | 5 | e e | 03 | 46 | 00 05 | séismique ? |
| <p>Arrêt du Courte période du 12, 9^h au 16, 3^h. Arrêt du longue période du 12, 9^h au 14, 7^h.</p> | | | | | | |
| 8 | 14 | ePKP ₁ ePP ePKS ePPP ePS eSS eL F | 20 | 09 | 06 20 20 50 15 20 | Δ = 13.200 km. |
| | | | 22 | 50 | | |

| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|---|-----------------|-----------------|--|---|
| 9 | 17 | iP e ePP | 11 ^h | 34 ^m | 47 ^s 58 48 | C $\Delta = 2.200$ Km. |
| 10 | 17 | eP e ePP | 13 | 53 | 25 42 48 | $\Delta = 2.360$ Km. |
| 11 | 17 | e(PKP) e e | 15 | 41 | 55 57 40 | |
| 12 | 17 | e e e L ₁ L ₂ F | 23 | 06 | 06 08 11 08 14 59 | |
| 13 | 18 | iP ePcP e iPP | 12 | 58 | 06 11 21 39 | D C $\Delta = 9.000$ Km. $h = 100$ Km. |
| 14 | 19 | eP ePcP e ePP e L F | 21 | 54 | 03 17 25 56 00 20 19 | $\Delta = 8.300$ Km. |
| 15 | 20 | iPKP ₁ i ePKP ₂ e e iPP ePPP eL F | 12 | 15 | 30 39 16 17 16 20 24 34 08 | D C D $\Delta = 19.100$ Km. |

| N° | Date | Phase | Heure TU | | | Remarques | | |
|-----|------|-------|-----------------|-----------------|-----------------|-----------|-------------------------------|---|
| 16 | 21 | iP | 13 ^h | 08 ^m | 19 ^s | D | $\Delta = 10.800 \text{ Km.}$ | |
| | | iPcP | | | 20 | C | | |
| | | i | | | 27 | D | | |
| | | e | | | 46 | | | |
| | | ePP | | | 12 | 30 | | |
| | | ePPP | | | 14 | 33 | | |
| | | eS | | | 19 | 12 | | |
| | | | | | | | | |
| 17 | 23 | e | 13 | 51 | 38 | | séismique ? | |
| | | e | | | 54 | 24 | | |
| | | e | | | 55 | 20 | | |
| | | e | | | | 34 | | |
| 18 | 24 | ePKP | 04 | 37 | 23 | | $\Delta = 16.300 \text{ Km.}$ | |
| | | i | | | 28 | D | | |
| | | i | | | 38 | 08 | | D |
| | | e | | | | 12 | | |
| | | e | | | 39 | 13 | | |
| | | ePP | | | 40 | 47 | | |
| | | L | | | 05 | 23 | | |
| F | 06 | 51 | | | | | | |
| 19 | 25 | ePKP | 15 | 34 | 43 | | réplique du n° 18. | |
| | | i | | | 48 | C | | |
| | | i | | | 56 | D | | |
| | | e | | | | 23 | | |
| | | e | | | 36 | 23 | | |
| ePP | 38 | 08 | | | | | | |
| 20 | 25 | ePKP | 16 | 17 | 15 | | a: | |
| | | i | | | 21 | D | | |
| | | e | | | 27 | | | |
| 21 | 26 | ePKP | 03 | 24 | 54 | | a: | |
| | | i | | | 58 | D | | |
| | | e | | | 59 | | | |
| | | e | | | 25 | 07 | | |
| | | ePP | | | 28 | 29 | | |
| | | e | | | 31 | 22 | | |
| | | e | | | | 31 | | |

| N° | Date | Phase | Heure T.U. | | | Remarques |
|---|------|-------------------|-----------------|-----------------|-----------------|-------------------|
| 22 | 26 | e | 08 ^h | 23 ^m | 56 ^s | réplique du n° 18 |
| | | e | | 24 | 01 | |
| | | e | | | 08 | |
| 23 | 26 | iPKP | 22 | 51 | 41 | C |
| | | ePP | | 54 | 59 | |
| 24 | 27 | eP | 15 | 44 | 04 | Δ = 10.500 km. |
| | | ePP | | 47 | 59 | |
| | | ePPP | | 49 | 52 | |
| | | eS | | 55 | | |
| | | e(PS) | | 57 | | |
| | | L | 16 | 01 | | |
| | | M ₁ | | 17 | | |
| | | M ₂ | | 27 | | |
| | 18 | 55 | | | | |
| Arrêt du courte période du 27, 23 ^h au 29, 12 ^h et le 30 de 2 à 10 ^h . | | | | | | |
| 25 | 30 | traces | 15 | 36 | 06 | |
| 26 | 30 | ePKP ₁ | 18 | 39 | 47 | Δ = 18.900 km. |
| | | ePKP ₂ | | 41 | 36 | |
| | | ePP | | 45 | 29 | |
| | | ePPP | | 48 | 32 | |
| 27 | 30 | ePKP ₁ | 22 | 27 | 04 | réplique du n° 26 |
| | | ePKP ₂ | | 28 | 54 | |
| | | e | | 32 | 04 | |
| | | ePP | | | 51 | |
| | | ePPP? | | 35 | 54 | |

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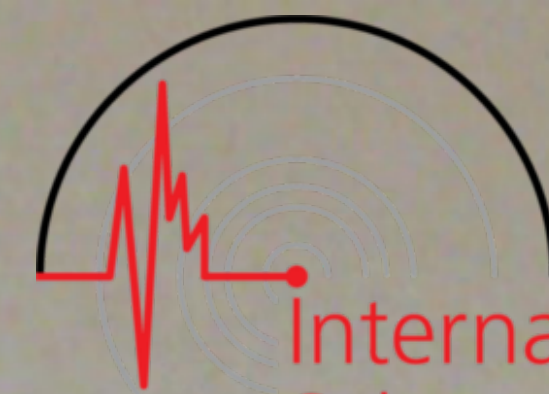
OCTOBRE 1949

Longitude 5° 31'4 E Gr.

Latitude 22° 47'5 N

Altitude 1.395 m

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|-----------------|--------|-----------------|-----------------|-----------------|--------------------|---|
| 1 | 1 ^{er} | eP | 18 ^h | 08 ^m | 22 ^s | Δ = 4.400 km. C | |
| | | i | | | 36 | | |
| | | ePP | | 09 | 57 | | |
| | | ePPP | | 10 | 18 | | |
| | | ePcP | | | 27 | | |
| 2 | 1 ^{er} | traces | 18 | 20 | 37 | C | |
| | | i | | 22 | 09,5 | | |
| | | i | | 23 | 02 | | D |
| 3 | 3 | eP | 09 | 28 | 07 | Δ = 9.500 km. C | |
| | | iPcP | | | 10 | | |
| | | e | | | 43 | | |
| | | i | | | 46 | | D |
| | | ePP | | 31 | 23 | | |
| 4 | 3 | i | 13 | 04 | 16 | D | |
| | | i | | | 17 | | C |
| | | i | | | 31 | | D |
| | | i | | | 47 | | D |
| | | e | | | 51 | | |
| 5 | 4 | iP | 10 | 27 | 23 | Δ = 3.880 km. D | |
| | | e | | | 57 | | |
| | | i | | 28 | 22 | | C |
| | | iPP | | | 28 | | C |
| | | ePPP | | | 46 | | |
| 6 | 4 | e | 17 | 38 | 04 | D | |
| | | i | | | 10 | | |
| 7 | 5 | eP | 16 | 25 | 26 | Δ = 2.250 km. | |



| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|-----------|---|-----------------|-----------------|---|----------------|
| 7 | 5 (Suite) | i ePP | 16 ^h | 25 ^m | 30 ^s 41 | D |
| 8 | 5 | ePKP i e e ePP | 19 | 26 | 39 43 01 15 02 | Δ = 16.100 km. |
| 9 | 7 | iP i i e e ePP ePPP i e e L L F | 12 | 14 | 04.5 07 13 15 10 16 04 47 18 40 21 55 23 01 32 04 38 49 14 17 | Δ = 8.300 km. |
| 10 | 7 | e e | 22 | 47 | 47 30 | |
| 11 | 8 | eP i ePP ePPP i i e e F | 03 | 12 | 31 36 46 54 16 46 17 08 51 19 41 36 | Δ = 1.780 km. |
| 12 | 9 | traces | 04 | 10 | 20 | |
| 13 | 9 | e i e | 19 | 57 | 57 59 42 | D |

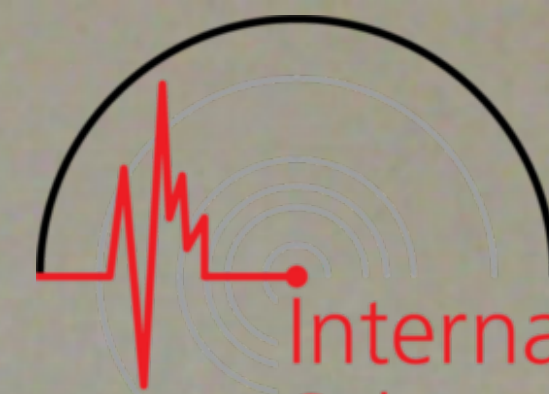


| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------|-------------------|-----------------|-----------------|-----------------|---|
| 14 | 12 | e | 00 ^h | 46 ^m | 32 ^s | |
| 15 | 13 | traces | 03 | 56 | 26 | |
| | | δ. | | 57 | 25 | |
| | | δ. | 04 | 01 | 17 | |
| 16 | 13 | eP | 10 | 33 | 38 | |
| | | i | | | 39 | C |
| | | i | | | 43,5 | D |
| | | ePP | | 35 | 04 | |
| | | eS | | 39 | 28 | |
| 17 | 16 | traces | 11 | 40 | 29 | ressenti dans la région des Otafs, Algé |
| 18 | 16 | e | 18 | 11 | 49 | |
| 19 | 19 | iPKP ₁ | 21 | 19 | 50 | D |
| | | i | | | 54,7 | D |
| | | i | | 20 | 10 | C |
| | | ePP | | 23 | 08 | |
| | | i | | | 40 | C |
| | | ePPP | | 26 | 32 | |
| | | e | | 42 | 26 | |
| | | e | | 47 | 14 | |
| | | e | | 48 | 08 | |
| | | L | 22 | 11 | | |
| | | L | | 17 | | |
| F | 00 | 12 | | | | |
| 20 | 19 | i | 22 | 07 | 36 | C |
| | | e | | 08 | 27 | |
| 21 | 19 | i | 22 | 49 | 05 | D |
| | | e | | | 36 | |
| 22 | 20 | e | 02 | 41 | 40 | |
| 23 | 20 | i | 08 | 08 | 35 | C |
| 24 | 20 | iPKP | 13 | 04 | 34 | D |
| | | e | | 05 | 01 | |
| | | e | | | 49 | |

Δ = 4.220 km.

Δ = 16.110 km.

réplique du n° 19



| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------------|--------|-----------------|-----------------|-----------------|-----------|--|
| 24 | 20 (suite) | ePP | 13 ^h | 08 ^m | 00 ^s | | |
| | | ePPP | | 11 | 17 | | |
| | | L | | 32 | | | |
| | | F | 14 | 58 | | | |
| 25 | 21 | traces | 06 | 31 | 21 | | |
| 26 | 21 | iPKP | 21 | 53 | 46 | D | réplique du n°-19 |
| | | e | | | 32 | | |
| | | e | | 55 | 07 | | |
| | | ePP | | 57 | 17 | | |
| 27 | 22 | eP* | 14 | 20 | 03 | C | proche $\Delta = 75$ km. |
| | | eS* | | | 12 | | |
| | | iSg | | | 13 | | |
| 28 | 23 | traces | 05 | 31 | 20 | | |
| 29 | 25 | eP | 08 | 35 | 25,8 | D | ressenti à Alger et sa région $\Delta = 1.570$ km H: 08 ^h 32 ^m 00 ^s |
| | | e | | | 28,5 | | |
| | | iPP | | | 34,8 | | |
| | | iPPP | | | 42,7 | | |
| | | e | | 35 | 55 | | |
| | | eS | | 37 | 58 | | |
| | | e | | 38 | 41 | | |
| | | L | | 39 | 00 | | |
| | | L | | 43 | | | |
| 30 | 26 | eP | 00 | 11 | 05 | C | $\Delta = 5160$ km |
| | | e | | | 07 | | |
| | | e | | | 19 | | |
| | | ePP | | 12 | 57 | | |
| | | L | | 26 | | | |
| | | F | | 48 | | | |
| 31 | 26 | e | 01 | 53 | 05 | C | |
| | | i | | | 11,5 | | |
| 32 | 26 | e | 09 | 32 | 53 | | |
| | | e | | 33 | 03 | | |
| | | e | | 34 | 14 | | |

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------|---------|-----------------|-----------------|-----------------|-------------------------------|---|
| 33 | 28 | e | 16 ^h | 45 ^m | 56 ^s | | |
| | | e | | 46 | 12 | | |
| | | e | | | 27 | | |
| 34 | 29 | traces | 12 | 14 | 08 | | |
| | | e | | 19 | 21 | | |
| | | e | | 20 | 43 | | |
| | | e | | 23 | 19 | | |
| 35 | 30 | traces | 05 | 54 | 19 | | |
| 36 | 31 | traces | 00 | 14 | 14 | | |
| | | δ° | | 19 | 10 | | |
| 37 | 31 | traces | 01 | 56 | 42 | | |
| 38 | 31 | ePKP | 18 | 15 | 10 | Δ = 16.500 km. h = 100 km. | |
| | | i | | | 14.5 | | D |
| | | i(pPKP) | | | | 33 | D |
| | | i | | | | 46 | C |
| | | ePP | | 18 | | 46 | |
| | | e+PP | | 19 | | 06 | |
| | | e(SKS) | | 22 | | | |
| | | e(PS) | | 30 | | | |

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NOVEMBRE 1949

Longitude 5° 31'4 E Gr.

Latitude 22° 47'5 N

Altitude 1.395 m.

| N° | Date | Phase | Heure T.U. | | | | Remarques |
|----|------|-------------------|-----------------|-----------------|-----------------|---|-------------------|
| 1 | 14 | iPKP ₁ | 07 ^h | 52 ^m | 20 ^s | D | Δ = 16.100 km. |
| | | iPKP ₂ | | | 23 | C | |
| | | e | | | 40 | | |
| | | e | | | 45 | | |
| | | ePP | | 55 | 42 | | |
| 2 | 14 | iP | 13 | 15 | 49 | D | |
| | | e | | | 55 | | |
| | | e | | | 59 | | |
| 3 | 14 | iPg | 20 | 28 | 43 | C | Δ = 75 km. proche |
| | | ePn | | | 45 | | |
| | | eSg | | | 52 | | |
| 4 | 2 | ePKP | 02 | 51 | 39 | | Δ = 14.100 km. |
| | | e | | 53 | 08 | | |
| | | ePP | | | 36 | | |
| | | traces PKS | | 54 | 59 | | |
| 5 | 2 | iPKP ₁ | 03 | 47 | 33 | D | Δ = 16.900 km. |
| | | e | | | 35 | | |
| | | ePKP ₂ | | | 50 | | |
| | | traces PP | | 51 | 23 | | |
| 6 | 2 | i | 13 | 02 | 15 | D | séismique ? |
| | | e | | 04 | 33 | | |
| | | e | | 05 | 40 | | |
| 7 | 3 | ePKP ₁ | 00 | 26 | 47 | | |
| | | ePKP ₂ | | 27 | 03 | | |



| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------|---|-----------------|-----------------|---|--|--|
| 8 | 3 | iP e ePP e ePP ePP i e eSS eL F | 01 ^h | 26 ^m | 21 ^s 25 58 29 39 30 38 31 15 32 16 38 50 45 02 58 | D D | $\Delta = 11.500 \text{ km.}$ $h = 200 \text{ km.}$ |
| 9 | 4 | iP iPP iPPP e eS eL | 12 | 39 | 09 20.7 27.7 41 25 57.5 43 37 | D C D | $\Delta = 1630 \text{ km.}$ ressenti dans la région d'Oran (Algérie) |
| 10 | 6 | traces e | 00 | 00 | 07 24 | | |
| 11 | 7 | iPKP ₁ i iPKP ₂ e ePP i eSKS ePPP eL F | 06 | 19 | 39 55 20 21 37 23 58 24 14 26 33 27 47 07 25 09 02 | D C D D | $\Delta = 17.800 \text{ km.}$ |
| 12 | 13 | eP i traces PP | 04 | 55 | 21 23 58 47 | D | $\Delta = 9.700 \text{ km.}$ |
| 13 | 14 | eP e | 02 | 22 | 49 23 57 | | |
| 14 | 14 | e | 04 | 17 | 55 | | séismique ? |



| N° | Date | Phase | Heure T.U. | | | Remarques | |
|--|------|-------------------|-----------------|-----------------|-----------------|-----------|-------------------|
| Arrêt de l'appareil le 20 de 7 ^h 03 ^m à 8 ^h 40 ^m | | | | | | | |
| 15 | 22 | iPKP ₁ | 01 ^h | 11 ^m | H1 ^d | C | Δ = 19.200 km. |
| | | i | | | H6 | D | |
| | | e | | 12 | 36 | | |
| | | iPKP ₂ | | 13 | 09 | C | |
| | | e | | | 14 | | |
| | | iPP | | 17 | 03 | D | |
| | | e | | | H7 | | |
| | | ePPP | | 20 | 38 | | |
| | | e | | 22 | 29 | | |
| | | e | | 23 | 38 | | |
| | | F | 03 | 11 | | | |
| 16 | 22 | iP | 15 | 29 | H8 | D | Δ = 5.400 km. Ca. |
| | | i | | 30 | 15 | D | |
| | | ePP | | 31 | 52 | | |
| | | eS | | 36 | 54 | | |
| 17 | 23 | eP | 16 | 56 | 11 | | |
| | | i | | | 14.5 | D | |
| | | ePP | | | 36 | | |
| | | eS | 17 | 00 | 30 | | |
| | | L ₁ | | 02 | | | |
| | | L ₂ | | 08 | | | |
| | | F | | 22 | | | |
| 18 | 27 | iPKP ₁ | 09 | 02 | 29 | D | Δ = 19.500 km. |
| | | e | | | H2 | | |
| | | ePKP ₂ | | 04 | 03 | | |
| | | ePP | | 07 | 56 | | |
| | | i | | 08 | 11 | D | |
| | | e | | | H8 | | |
| | | eSKS | | 09 | 38 | | |
| | | iPPP | | 11 | 33 | D | |
| | | eSKKS | | 14 | 54 | | |
| | | L | 10 | 05 | | | |
| F | 11 | 22 | | | | | |

M^{lle} A. Grandjean
M. B. Leprêtre

OBSERVATOIRE DE TAMANRASSET

DIRECTEUR: G. GRENET

BULLETIN SÉISMIQUE PROVISOIRE

DÉCEMBRE 1949

Longitude 5° 31'4 E Gr.

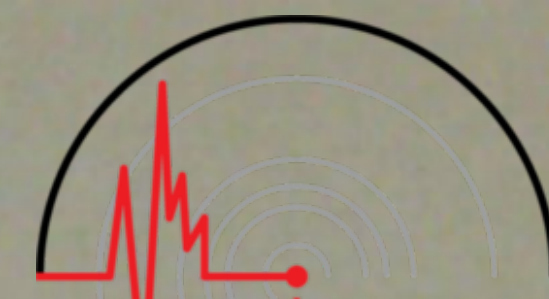
Latitude 22° 47'5 N

Altitude 1.395 m.

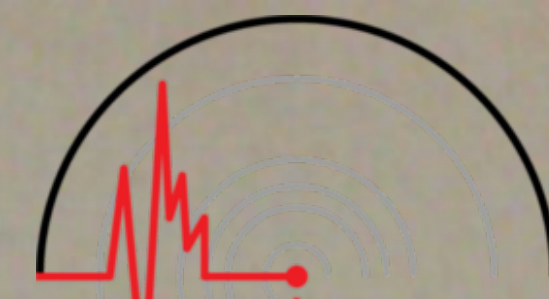
| N° | Date | Phase | Heure T.U. | | | Remarques | |
|---|------|-------|-----------------|-----------------|-----------------|-------------------------|---|
| Longue période inutilisable du 1 ^{er} au 25. | | | | | | | |
| 1 | 3 | e | 02 ^h | 53 ^m | 26 ^s | | |
| | | e | | | 41 | | |
| 2 | 3 | e | 12 | 14 | 07 | | |
| | | e | | | 42 | | |
| 3 | 7 | e | 16 | 18 | 09 | Δ = 2.400 km. | |
| | | iP | | | 13 | | D |
| | | e | | | 19 | | |
| | | e | | | 26 | | |
| | | ePP | | | 42 | | |
| | | eS | 22 | 09 | | | |
| Courte période arrêtée du 8, 8 ^h au 10, 6 ^h . | | | | | | | |
| 4 | 10 | e | 19 | 34 | 55 | | |
| | | e | | 36 | 53 | | |
| 5 | 10 | iP | 19 | 48 | 58 | D Δ = 3.400 km. | |
| | | i | | 49 | 00 | D | |
| | | ePcP | | | 13 | | |
| | | i | | | 25.5 | D | |
| | | ePP | 51 | 48 | | | |
| 6 | 15 | ePn | 17 | 23 | 56 | séismique ? Δ = 475 km. | |
| | | eSn | | 24 | 47 | | |
| 7 | 17 | e | 07 | 07 | 14 | | |
| | | i | | | 31 | D | |
| | | e | | 08 | 11 | | |

| N° | Date | Phase | Heure T.U. | | | Remarques | |
|----|------------|--|-----------------|-----------------|-----------------|---|---|
| 7 | 17 (suite) | i | 07 ^h | 10 ^m | 38 ^s | C | |
| | | Courte période arrêté le 17 de 7 ^h 11 ^m à 8 ^h 56 ^m | | | | | |
| 8 | 17 | eP | 15 | 21 | 39 | réplique du précédent Δ = 11.100 km. | |
| | | i | | | 56 | | C |
| | | i | | 25 | 04 | | D |
| | | ePP | | | 54 | | |
| | | ePPP | 28 | | 01 | | |
| 9 | 18 | ePKP ₁ | 05 | 58 | (50) | Δ = 19.000 km. h = 150 km. ca. | |
| | | e | | | 58 | | |
| | | e | | | 15 | | |
| | | e _p PKP ₁ | | | 20 | | |
| | | iPKP ₂ | | 59 | 56 | | D |
| | | i | | | 59 | | D |
| | | e | 06 | 00 | 14 | | |
| | | e _p PKP ₂ | | | 27 | | |
| | | i(PP) | | 03 | 44 | | D |
| | | e | | 04 | 04 | | |
| 10 | 19 | ePKP | 09 | 59 | 01 | Δ = 15.300 km. | |
| | | ePP | 10 | 01 | 53 | | |
| | | ePPP | | 04 | 49 | | |
| 11 | 19 | ePKP ₁ | 12 | 15 | 14 | | |
| | | ePKP ₂ | | | 26 | | |
| 12 | 20 | eP | 00 | 43 | 13 | Δ = 5.360 km. | |
| | | i | | | 16 | | D |
| | | e | | | 28 | | |
| | | e | | | 35 | | |
| | | e | | | 44 | | |
| | | ePP | | 45 | 05 | | |
| 13 | 20 | iPKP ₁ | 04 | 35 | 45 | Δ = 18.900 km. h = 600 km. | |
| | | iPKP ₂ | | 37 | 28 | | D |
| | | e _p PKP ₁ | | 38 | 06 | | |
| | | e _p PKP ₂ | | 39 | 53 | | |
| | | ePP | | 41 | 21 | | |
| | | e(PP) | | 43 | 36 | | |
| | | i(PP) | | 44 | 29 | | C |

| N° | Date | Phase | Heure T.U. | | | Remarques |
|----|------------|---|-----------------|----------------------|----------------------------------|---|
| 13 | 20 (suite) | e | 04 ^h | 47 ^m | 15 ^s | |
| 14 | 21 | eP e ₁ P i ₁ P e | 12 | H2 | 13 27 35 52 | Δ = 7.540 km. h = 100 km. C |
| 15 | 21 | iP i ₁ P eS e(SP) | 19 | H4 H6 53 54 | 16 26 27 10 | C D Δ = 8.900 km. h = 600 km. |
| 16 | 21 | eP eP _c P | 20 | 13 | 19 H1 | Δ = 7.800 km. Ca. |
| 17 | 21 | traces | 20 | 30 | 57 | |
| 18 | 22 | iP e e ₁ P e i e(PP) | 09 | H3 H4 46 | 47 01 12 H2 54 19 | D D Δ = 10.200 km. h = 100 km. |
| 19 | 25 | traces e | 23 | 36 | 05 1H | |
| 20 | 25 | traces e | 23 | 39 H3 | 05 32 | (très faible) |
| 21 | 26 | ePKP ₁ e e ePKP ₂ ePP ePPP | 06 | H4 H5 H9 53 | 05 09 26 26 19 31 | Δ = 19.100 km. |
| 22 | 27 | traces | 09 | 1H | H1 | |
| 23 | 28 | eP i i | 00 | 09 | H8 51 59 | Δ = 10.100 km. D D |



| N° | Date | Phase | Heure T.U | | | Remarques |
|----|------------|---------------------------------|-----------|----|----|-----------------------|
| | | | h | m | s | |
| 23 | 28 (Suite) | e | 00 | 09 | 36 | |
| | | ePP | | 13 | 13 | |
| | | ePPP | | 15 | 24 | |
| | | eSKS | | 20 | 18 | |
| | | eS | | | 44 | |
| | | e | | 21 | 34 | |
| | | eSS | | 26 | 04 | |
| | | e | | 28 | 34 | |
| | | eSSS | | 29 | 24 | |
| | | e | | 31 | 54 | |
| | | e | | 32 | | |
| | | eL | | 37 | | |
| | | F | 02 | 10 | | |
| 24 | 28 | traces | 03 | 57 | 46 | |
| 25 | 28 | traces | 06 | 32 | 14 | |
| | | traces | | 33 | 39 | |
| 26 | 29 | traces | 03 | 18 | 06 | $\Delta = 12.000$ km. |
| | | e | | | 27 | |
| | | e | | 21 | 19 | |
| | | i | | | 44 | C |
| | | e | | 22 | 24 | |
| | | iPP | | | 34 | C |
| | | ePPP | | 24 | 39 | |
| | | e | | 28 | 14 | |
| | | ePS | | 31 | 06 | |
| | | e | | 33 | 58 | |
| | | eSS | | 37 | 34 | |
| | | eSSS | | 43 | | |
| | | eL | | 59 | | |
| F | 06 | 23 | | | | |
| 27 | 29 | ePKP ₁ | 17 | 02 | 49 | $\Delta = 19.400$ km. |
| | | e | | 03 | 29 | |
| | | e _p PKP ₁ | | | 43 | |
| | | e _s PKP ₂ | | 04 | 06 | |
| | | i | | 05 | 21 | D |
| | | ePP | | 08 | 22 | |
| | | i _p PP | | 09 | 06 | D |
| | | e(PPP) | | 12 | 14 | |



| N° | Date | Phase | Heure T.U. | | |
|----|------------|--------|-----------------|-----------------|-----------------|
| 27 | 29 (Suite) | e | 17 ^h | 19 ^m | 14 ^s |
| | | e | | 27 | |
| | | e | | 33 | |
| | | eL | 18 | 10 | |
| | | F | 19 | 20 | |
| 28 | 29 | e | 22 | 24 | 00 |
| | | e | | | 34 |
| | | traces | | 26 | 40 |
| 29 | 30 | e | 02 | 01 | 15 |
| | | traces | | 02 | 32 |
| 30 | 30 | traces | 11 | 01 | 16 |
| | | traces | | 02 | 51 |
| | | traces | | 06 | 48 |

J. Castet
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