

3621 OLIVE STREET
SAINT SAINT LOUIS, MISSOURI

INSTITUTE OF TECHNOLOGY

FLORISSANT

August 1, 1949: eS NZ 08h08m33s

SAINT LOUIS

August 2, 1949

eP Z 23-14-06
e(S)N 23-23-24

August 5, 1949

iP Z 19-10-42
FORESHOCK

August 5, 1949

iP Z 19-16-31
is E 19-22-40

August 6, 1949

iP Z 00-49-04
ipP E 00-49-28

iPP E 00-52-31

iSKS E 00-59-36

is E 01-00-10

August 6, 1949

e Z 18-58-05

August 6, 1949

e Z 21-44-22
e E 21-47-30
eM E 21-51-04

August 7, 1949

e Z 08-21-29

Surface waves
11 hour.

Ross R. Heinrich

AUG 9 1949

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SAINT LOUIS, MISSOURI



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22 ADUT 1949 1915

SAINT LOUIS READINGS

August 8, 1949

eP Z 14-15-43
iP Z 14-15-44

eS N 14-20-17

August 8, 1949

e(P)Z 19-16-55
e(S)N 19-24-38

August 10, 1949

Strong Microseisms
03h to 24hr

August 11, 1949

e N 15-32-02

slight disturbance
reported in University
City, Mo. west of
St. Louis.

August 11, 1949

eP Z 14-48-55
eS N 14-55-42

August 13, 1949

ePP EZ 18-44-35
iPP Z 44-41

iSKSE 18-50-24
iS NE 18-52-31

i NE 18-53-14
iSS E 19-00-31
i E 19-11-31
i NE 19-13-54
i NE 19-16-06

August 13, 1949

iP_n N 21-32-25

eS_n N 21-32-57

M-M III

Distance about 179 miles
H 21-31-43.1
Felt in Pemiscot Co., Mo.
and Dyer, Co., Tenn

Ross R. Heinrich
August 17, 1949

1959 / 27 AOUT 1949

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SAINT LOUIS READINGS

August 17, 1949

iP Z 18-46-34
i Z 46-55

iS N 18-56-51
eSS N 19-02-19

Overlaps following

August 17, 1949

iP Z 18-57-16
iPP Z 19-00-53

i E 19-08-02
i E 19-09-19
i E 19-09-37

August 18, 1949

iP Z 13-39-42
i E 40-50

i E 13-44-46

August 20

eP Z 05-32-47
eS N 05-38-23

August 22, 1949

i N 22-57-42

Earth Motion

August 27

i P Z 04-07-47

up

eS N 15-01-45

south

iM N 15-05-10

E

east

i(S) NE 04-13-17

Horizontal Sprengnethers

put out of order by

intensity of P phases.

S readings from Wood

Anderson

Ross R. Heinrich
23 August 1949

IPZ 10-32-01
1PPZ 34-46
IS N 10-41-32

5 October

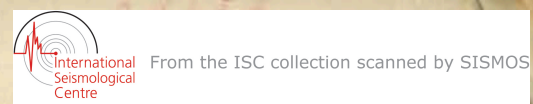
i(P) 02-38-35
i 38-47
e(S) 02-41-52

Felt in Maine

Ross R. Heinrich
6 October 1949

St. Louis

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October 4, 1949

eP Z 00-00-28
e(S)E 00-10-26

October 7, 1949

iP' Z 12-22-10
i Z 22-19
i Z 23-32
iPP E 25-47
i E 32-56
iPSKS E 36-24
iPPS E 38-54

October 13, 1949

eE 03-59-34
iN 04-00-24
eE 09-18

October 13, 1949

e(P)Z 12-52-24

October 13, 1949

eZ 17-53-39
iZ 54-00

October 19, 1949

e(P)Z 21-16-28
iP' Z 19-07
iZ 21-19-57
iPPZ 20-52
eE 25-34
iE 26-39

October 20, 1949

ePP Z 13-04-25
iSKSE 10-08
iSKKSN 11-22
iS E 12-18
iSPN 14-10
iSSNE 20-05

October 21, 1949

eZ 21-53-57
eE 22-01-09
eN 03-30

Ross R. Heinrich
24 October 1949

2560/

2800000019

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October
IC-32-01

24 NOV 1949
October 20, 1949

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PRELIMINARY READINGS
SAINT LOUIS

October 26

eP Z 00-11-44
eS E 19-08

October 26

e E 09-39-50
e NE 42-24
e N 46-44
e NE 48-24

October 27

eM E 04-49-05

October 27

e(P)Z 08-28-51
eS E 32-48
iM E 35-43

October 27

e(S)N 10-13-39
eM E 17-09

October 31

e(SKS)N 00-27-55

October 31

iP Z 01-46-21
i Z 47-40
iS E 51-59
i N 53-42
iM N 57-18

October 31

I(P)Z 02-39-02

October 31

e Z 18-15-00
e E 20-50
i E 21-58
i E 25-46
i E 26-46
i N 30-43

ST-LOUIS

2818/3018

November 7

e Z 06-18-34
e E 22-04
e E 24-46
i E 28-04

November 11

eP Z 12-04-34
iS E 13-57

November 11

iP NZ 16-04-45
i N 16-10-07

November 12 13

iP NZ 04-48-25
iP Z 04-48-34
iS N 53-24
iS N 53-40

November 2

e Z 02-53-21
e E 03-04-55

November 3

eP Z 01-24-07
iP Z 24-09
i Z 24-53
iS E 33-39
iS E 01-34-47

November 4, 1949

eP Z 20-47-42
iP Z 47-45
eS N 51-49
iS N 51-52
iM N 20-55-53

November 5

eP Z 04-40-30
eS N 44-43
eM N 04-47-30

November 6

iP Z 22-33-56
e(S)N 22-38-38

November 7

iP Z 04-35-58

November 20

eP NZ 07-14-31
iP 14-43
eS 18-33
iS 18-35
eL 20-51

Ross R. Heinrich

no 1831
24 XI 49

SAINT LOUIS

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November 11
November 13
November 14
November 15
November 16
November 17
November 18
November 19
November 20
November 21
November 22
November 23
November 24
November 25
November 26
November 27
November 28
November 29
November 30

SAINT LOUIS

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10 X 49

Preliminary Readings

November 26, 1949

iP Z 04-29-42
i Z 30-07

November 27, 1949

iP Z 08-55-42
i Z 55-52
iPP Z 59-31

iSKSN 09-05-57
iS NE 06-15

i Z 13-07

PRELIMINARY READINGS SAINT LOUIS STATION

November 22, 1949

e(P) Z 01-05-49 weak
ePP Z 01-10-08
eSKS N 16-05
eSKKS N 16-56
iS N 17-36 very large
iSS N 25-03 very large
iG N 35-21

November 23, 1949

iP Z 06-19-33
iS N 23-39
iM N 26-43

Ross R. Heinrich
November 26, 1949

UNIVERSITY

ST LOUIS

3004

10 Jan 49



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LOUIS

F TECHNOLOGY

December 2, 1949

e Z 20-59-23

i Z 21-01-07

e E 07-13

Superposed on another
shock

December 5, 1949

eP Z 12 ~~48~~-50

iP Z ~~48~~-51

i Z ~~48~~-57

e Z ~~49~~-37

e E ~~53~~-49

e N ~~53~~-57

e Z ~~54~~-05

Rosa R. Heinrich
December 6, 1949

INSTITUTE OF TECHNOLOGY
SAINT LOUIS UNIVERSITYSAINT LOUIS STATIONDecember 10, 1949

iP Z 19-24-45
eS N 19-31-03
e E 31-27

December 17

eP Z 07-06-51
iP Z 07-04
iPP Z 10-24
iPPPN 12-16
iSKS 16-50
iS 17-31
iSP 18-20
eX 28-46

December 17

iP Z 15-21-09
i Z 23-04
iSKSE 31-52
iS E 15-32-18

December 21

eP Z 19-42-34
iP Z 42-36
i Z 43-08
iS E 19-50-16
i E 51-27

December 22

iP Z 09-35-48
i Z 36-10
iS E 09-40-01

December 29

eP^r Z 03-22-40
iPP 23-54
i(S) 31-33
iPPS 34-54
iSS 39.8
iM 04-03 +

December 25

iP Z 22-45-46
i Z 45-53
iS NZ 50-06
iL 53-43
M 55-29

December 25

iP Z 23-30-42
also
iP Z 23-38-05

December 26

iP N 06-37-41
iP Z 37-44
iPP 41-45
iPPP 43-53
iSKS 48-24
iSKKS 06-48-51
iS 49-09
iSP 50-25
iPKKP 54-21
iSS 56-01
iSSS 07-00-28
G 05-15
L 06-05

December 28

eZ 00-16-38
eN 22-38
eN 23-20
eN 32-22

December 28

eP Z 06-33-50
eS E 40-39

December 29

S -Phases
eE 17-07-11
eE 07-56
eE 19-14

With best wishese for a Happy New Year in 1950

Ross R. Heinrich
31 December 1949



PRELIMINARY READINGS SAINT LOUIS S

1694

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July 1, 1949

1P Z 03-37-15
i Z 03-37-54
eS N 03-45-32
e N 03-46-30

July 1, 1949

e(P) Z 23-04-11

July 2, 1949

e Z 11-46-55
e E 11-50-04
e N 54-58

St Louis

Off Atlantic coast
of USA near 34.5 N.,
71.5 W. E 18-45-09

July 2, 1949

1P Z 20-11-11
iPP Z 20-15-25
iSKS N 21-50
iS E 20-23-05
iPS E 20-24-34
eSSS Z 20-35-06

July 4, 1949

e Z 03-59-13
e NE 04-08-45
e N 04-13-45

July 7, 1949

e(P) Z 04-40-19

Aftershock

10 July 1949

1PZ 16-37-49
iSKSN 47-39
i N 49-01

Aftershock

July 8, 1949

11 1P Z 12-46-01
iS N 12-50-40
iPS iS E 24-25-04
ePPS 28-34
eSKS 34-53
i(S)N 35-45

12 July 1949

eZ 04-54-30
13 Ross R. Heinrich
8 July 1949

12 July 1949

1PZ 08-12-38
e(S) 20-39
eK 08-21-28

Ross R. Heinrich
13 July 1949

13 08-11-43
13N 08-18-44
13 19-18
13 21-35

en 10-52-48
13 10-54-30
13 10-55-22 (PS)

EW not operating.
Surface waves lost in
changing records.

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PRELIMINARY READINGS SAINT LOUIS

July 16
8 July 1949

ePZ 18-27-29
 eN 18-35-12
 eLE 18-42

9 July 1949

iPZ 18-48-45
 iSZ 18-51-43
 iLE 18-52-55
 iME 18-54-45

Off Atlantic Coast
 of USA near 34.5 N.,
 71.5 W. H 18-45-09

ISE 22-39-55

July 21

iPZ 08-11-03
 iN 08-11-31
 iS 08-11-43
 iSH 08-18-44
 iN 19-18
 iS 21-35

July 17
10 July 1949

ePZ 04-07-27
 iPPN 04-11-32
 eSKSE 17-57
 iSE 04-18-00 56
 ePPSE 04-20-52
 iSSE 04-26-00

10 July 1949

ePE 16-02-14
 Aftershock

10 July 1949

iPZ 16-37-49
 iSKSN 47-39
 i N 49-01
 Aftershock

July 18
11 July 1949

iPZ 16-24-21
 ePPZ 28-34
 eSKS 34-53
 i(S)N 35-45

12 July 1949

eZ 04-54-30
 iE 04-58-56

12 July 1949

iPZ 08-12-38
 e(S) 20-39
 eE 08-21-28

1E 10-Ross R. Heinrich
 1E 10-13 July 1949
 1E 10-47-35 (SKP)

(e)N 10-50-18
 eN 10-50-58
 eN 10-52-48
 iN 10-54-36
 iN 10-55-22 (23)

EW not operating.
 Surface waves lost in
 changing records.

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SAINT LOUIS READINGS

July 16

~~iPZ 10-02-44
eSN 10-07-10
esSN 10-07-54~~

July 18

iPZ 05-01-04

July 17

eZ 15-08-22

July 17

eZ 23-26-44

July 18

eZ 09-06-00

July 18

~~e(~~P~~)Z 00-52-29
i(~~IP~~)Z 00-55-48~~

July 19

iPZ ~~09~~01-51

July 19

iPZN 09-48-05
eSN 09-52-09

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July 23, 1949July 25July 27

ePZ 15-15-55
iPZ 15-16-03
eSN 15-26-22
July 19 15-26-26

PRELIMINARY SAINT LOUIS DATA 1949

iSN 11-45-24
iE 11-50-33

15-25-42
iPZ 15-29-58
e3KSE 15-35-22

July 19
iZ 15-21-01

July 19 14-56-53
14-57-14
eZ 17-56-00
eZ 17-59-41

eE 18-05-42
eE 18-07-36

July 20

~~ePZ 22-39-51~~
~~iPZ 22-39-55~~

July 21

iPZ 08-11-03
iZ 08-11-31
iZ 08-11-43

iSN 08-18-44
iN 19-18
iE 21-35

July 23

iPSE 15-39-09
15-44-40
eE 09-05-07
iE 09-12-44
iN 09-15-10

EW Sprengnether not
operating; readings from
WA. Very much short
period motion.

July 23

iZ 10-40-58 (P)
iZ 10-45-31 (PP)
iZ 10-47-35 (SKP)

(e)N 10-50-18
eN 10-50-58
eN 10-52-48
iN 10-54-36
iN 10-55-22 (PS)

EW not operating.
Surface waves lost in
changing records.

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SAINT LOUIS, MISSOURI

July 1, 1949

SAINT LOUIS STATION

July 23, 1949

ePZ 15h15m59s
iPZ 15-16-03
eSN 15-26-22
iSN 15-26-26

July 24

e(P)Z 14-56-53
iZ 14-57-14
e(S)N 15-01-38

July 25

iPZ 11-36-12
iSE 11-45-54
iE 11-50-35

July 27

ePZ 15-25-42
iPPZ 15-29-58
eSKSE 15-36-22
iPSE 15-39-09
iSSE 15-44-40

July 4, 1949

e X 03-52-13
e ER 04-52-13
e N 04-11-13
Ross R. Heinrich
29 July 1949

July 7, 1949

e(P) S 04-40-19
Ross R. Heinrich
8 July 1949

2318 / 12235
 23 SEPT 1949

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SAINT LOUIS PRELIMINARY READINGS

1949

30 September

September 1, 1949

iP Z 14-09-57

is E 19-31

September 1, 1949

eP Z 18-33-59

iP Z 18-34-06

eSv E 18-39-45

September 3, 1949

eP Z 03-15-00

e E 03-29-24

September 5, 1949

iP Z 03-21-45 D

e E 03-30-00

September 5, 1949

e(P)Z 07-00-35

eL E 07-11-00

September 12, 1949

e E 09-42-13

e E 09-45-45

e E 09-50-53

iME 10-10-43

September 16, 1949

eP Z 20-49-45

eS N 20-53-45

eL N 20-56-01

iM N 20-56-57

September 16, 1949

e Z 19-30-16

e Z 19-32-22

e E 19-39-18

e E 40-12

e E 48-18

September 16, 1949

e(P)Z 15-50-06

eL N 56-34

September 14, 1949

iP Z 20-09-25

iPP Z 20-11-26

iSKP E 20-12-46

~~XXXXXX~~

iSKKS N 20-18-24

iPS E 21-29

September 20, 1949

iZ 12-14-12

iE 12-20-14

iE 12-21-00

eE 12-28-42

eE 12-33-16

Ross R. Heinrich
 20 September 1949

→ 12.11 page over.

2348 / 10 OCTO 1949
12235

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PRELIMINARY READINGS SAINT LOUIS

17 September 1949

e weak 02h28m33.5s
e 02-30-19

Felt in St. Charles,
Virginia and Herlan,
Kentucky.

21 September

iP Z 13-00-01
i Z 00-28
iS E 13-04-00
i E 04-42

21 September

eS NE 18-43-39
e E 46-01

24 September

ePP E 04-37-12
eSKSE 43-06
eSKKSE 44-16
iPS E 46-49

25 September

iSKS E 15-41-31
iPS E 44-06

26 September

ePS E 03-34-25
eSSSE 45-00

26 September

ePS E 08-33-36

27 September

iP Z 15-38-38
iPPPZ 40-31
iS N 44-55

30 September

30 September

e N 04-11-46

eSKS E 23-12
iS N 24-13

30 September

eE 15-56-45
eE 57-24

Max 16-15

30 September

iN 18-45-16
eN 48-14
eN 54-14
Max 19-12

30 September

iN 12-32-34
eE 38-08
Max 23-01

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précédente