

August 26, 1965

The basic data included with the Weston Preliminary Seismic Readings are the arrival times of phases at Weston and the four telemetered stations. The first motion of P as well as the direction of arrival of the Rayleigh waves (R) are both given if possible as a guide to the consistency of the data. The amplitudes and periods of the phases used in magnitude determination (Ms) are given in microns(μ) and seconds(T).

The letter "i" (impetus) preceding a phase designates a sudden beginning of the motion; "e" (emersio) designates a gradual beginning. Times are given in Greenwich Mean Time (GMT). Subtract four (4) hours to convert to Eastern Daylight Time (EDT) or five (5) hours to convert to Eastern Standard Time (EST). The letters "c" or "d" indicate compression or dilatation respectively for the vertical component of ground motion. The cardinal directions of horizontal ground motion are given by n, s, e, w, (north, south, east, and west).

Any information concerning the general location of the epicenter, epicentral distance and azimuth from Weston, and magnitude are preliminary determinations based on the local recordings unless otherwise indicated.

The coordinates of the stations in the New England Seismic Network are as follows:

WES	Weston, Mass.	42° 23' 04.9"N	71° 19' 19.5"W
BNH	Berlin, N. H.	44 35 26.0 N	71 15 23.0 W
CBM	Caribou, Me.	46 55 57.0 N	68 07 15.0 W
EMM	Machias, Me.	44 44 21.0 N	67 29 22.0 W
MIM	Milo, Me.	45 14 37.0 N	69 02 25.0 W

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WESTON PRELIMINARY SEISMIC READINGS

No. B-4

					26 August 1965				
Arrival Time (GMT)					Arrival Time (GMT)				
July	20 WES	iP	16 55 29.1	(c)se	July	25 WES	iP	13 46 03.3	dnv
							R from NNW		
	20 WES	iP	19 50 29.2	dse		25 WES	eP	21 57 53	c
	21 WES	eP'	03 06 22				eS	22 06 42	
		R from West					R from NNW		
	21 WES	iP	18 03 46.7	cse		26 WES	e	15 43 16	
		eS	13 02				R from West		
		R from WNW				26 WES	iP	18 59 24.5	cse
	21 WES	i	19 14 03.0	cse		27 WES	e(P)	11 31 30	
	21 WES	iP	20 38 57.2	c			R from North		
	22 WES	iP	01 30 01.3	c		27 WES	iP	16 07 00.1	d
	22 WES	iP	10 48 10.4	cn		27 WES	iP	16 09 33.2	c
		eS	14.6				iS	49.2	
	22 WES	e(P)	20 02 09						
	22 WES	e	21 29 34						
	23 WES	e(P)	15 22 23						
	25 WES	e	08 33 39						
		e	38 25						
		R from West							

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WESTON PRELIMINARY SEISMIC READINGS

No. B-5

26 August 1965

				Arrival Time (GMT)					Arrival Time (GMT)
July	28 WES	i		12 53 26.0	July	30 WES	i	16 06 10.7 e	
							i		12.9
	29 WES	iP		08 39 54.0 dnw		30 WES	iP	17 23 46.3 dw	
		iPP		42 21		30 WES	iP	18 41 27.7 c	
		iS		48 35		30 WES	iP	19 09 35.5 c	
			mu	T			eS	18 16	
	PZ			2.3 6		30 WES	e(P)	21 25 35	
	PH			.64 7			R from West		
	PPZ			4.2 6		31 WES	iP	07 19 04.4 d	
	PPH			4.7 8		31 WES	e(P)	11 25 14	
	SH			15.2 15	August			R from WSW	
	Aleutian Is.			Mag. 6.9		1 WES	iP	15 14 52.9 d	
	29 WES	iP		15 19 08.2 cs		1 WES	iP	16 52 22.6 d	
	29 WES	iP		16 07 59.6		2 WES	iP'	13 39 32.8 d	
		iS		08 00.6		2 WES	iP	14 41 19.4 cn	
	29 WES	e		16 12 14.6		2 WES	iP	16 50 10.4 c	
	30 WES	iP		05 55 17.4 cn(w)			ePP	51 30	
		eS		06 03 21			eS	55 56	
				R from South			R from South		
				Bolivia			mu	T	
	30 WES	iP		07 26 53.0 cn		PZ		1.4 6	
		eS		32 17		PH		0.7 6	
			mu	T		PPZ		0.7 7	
	PZ			1.7 3		PPH		0.7 7	
	PH			1.0 3		MAXH		1.9 20	
	SH			0.6 7		Columbia		Mag 5 3/4 - 6	

No. B-5

- 2 -

26 August 1965

August 2 WES 1 Arrival Time (GMT)
17 48 17.0 d

2 WES 1P 19 14 53.1 c(n)

ePP 16 10

eS 20 31

R from South

mu T

PZ 0.8 5

PH 0.6 5

PPZ 0.7 5

PPH 0.6 5

SH 0.9 14

Columbia Mag. 5.1

3 WES eP 02 10 43 ds

ePP 12 54

eS 17 59

R from South

mu T

PZ 0.6 7

PH 0.3 7

PPZ 0.5 7

PPH 0.3 7

SH 0.6 10

Peru/Bolivia Mag. 4.8

August 3 WES 1 Arrival Time (GMT)
15 31 53.4

3 WES 1 21 30 58.0

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WESTON PRELIMINARY SEISMIC READINGS

No. B-6

26 August 1965

				Arrival Time (GMT)					Arrival Time (GMT)
August	4	WES	i	15 10 25.4	August	8	WES	iP	05 30 36.5 d
									R from NNW
	5	WES	eP	00 23 34		8	WES	iP	13 00 01.9 d
			eP'	26 52 c					R from NW
			ePP	28 45 d		9	WES	i	02 52 48.4 c
			R from NW			9	WES	iP	23 23 36.5 ds
			mu	T				eR	47.4
			PPZ	1.7 12					
			PPH	0.7					
		Solomon Sea		Mag. 5.9					
	5	WES	e	18 25 22 c					
	5	WES	e	21 47 02					
	6	WES	iP	02 09 06.6 d					
			eS	17 39					
			R from SE						
			mu	T					
			MAXH	0.6 20					
	6	WES	i	20 32 43.7 cne					
	6	WES	e	20 38 00					

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WESTON PRELIMINARY SEISMIC READINGS

No. B-7

26 August 1965

				Arrival Time (GMT)					Arrival Time (GMT)
August	10 WES	iP	15 24	26.3	August	11 WES	e	21 45	39
		iS		28.7					
	10 WES	iP	15 58	11.4		11 WES	eP'	22 50	45
		iS		13.2			ePP		48
							R from West		
	10 WES	iP	20 15	40.4	dse		mu		T
		iS		41.5			PPZ	38.8	28
							PPH	21.6	26
							Mag. 7.6		
	11 WES	eP'	03 59	52	c				
		ePP	04 01	32		12 WES	eP'	08 20	38
		R from WNW					ePP	23	51
			mu	T					
		PPZ	7.7	23		12 WES	e	18 25	30
		PPH	3.9				R from West		
	Solomon Sea				Mag. 6.6				
	11 WES	iP	18 38	13.7	cw	13 WES	eP	01 03	15
		eS		45 12		13 WES	e	05 10	22
							R from West		
	11 WES	iP'	20 10	59.4	d(s)	13 WES	e	11 45	30
		ePP		13 08		13 WES	e(P)	13 59	21
		R from West				13 WES	eP	15 55	23
			mu	T		13 WES	iP	16 01	45.3
		PPZ	4.4	23		13 WES	iP	16 11	36.8
		PPH	2.1	23			iS		40.7
		Mag. 6.0							
	11 WES	e	21 09	56					
	11 WES	e	21 25	14					

No. B-7

- 2 -

26 August 1965

August			Arrival Time (GMT)	
	13 WES	iP	17 41 22.1	ce
		i(S)	23.7	
	13 WES	eP	18 43 41	
	13 WES	eP	18 58 56	
	13 WES	eP	19 48 53	
	13 WES	e	22 16 38	
	14 WES	iP	22 23 12.0	c(n)w
		iS	16.5	e
	16 WES	eP	04 42 30	
		eS	47 25	
			R from ENE	
	16 WES	iP	12 24 06.2	c
		iPP	25 32.5	
		eS	29 57	
			R from South	
			mu T	
		PPZ	0.46 8	
		PPH	0.38 8	
		SH	1,15 16	
			W coast of Columbia	Mag. 4.8
	16 WES	iS	12 55 10	
	16 WES	iP	13 15 58.0	d
	16 WES	iP	15 16 53.4	cs
	16 WES	e(P)	17 21 19	

August			Arrival Time (GMT)	
	16 WES	e(P)	19 40 58	
	17 WES	eP'	10 54 17	
	17 WES	iP	14 08 40.2	cne
		eS	13 50	
			R from SW	
	17 WES	iP	16 07 23.9	dse
		iS	26.2	
	17 WES	iP	16 09 59.0	csv
	17 WES	iP	16 36 39.4	d
			R from West	
	17 WES	eP	16 54 43	
	17 WES	iP	18 22 26.2	csv
		iS	45.8	
	17 WES	i	21 46 51.1	c

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WESTON PRELIMINAR SEISMIC READINGS

No. B-8

26 August 1965

				Arrival Time (GMT)					Arrival Time (GMT)
August	18 WES	e		14 44 03	August	24 WES	eP	01 03 05	one
	18 WES	e(P)		15 10 31			ePP	04 23	
	19 WES	1P		19 54 54.9		24 WES	eS	08 36	
		1S		55.5			e	13 20 32	
	20 WES	eP'		06 13 29		24 WES	e(P)	14 52 24	
		eSKKS		22 57			1S	28.0	ne
		1PP		15 43		24 WES	e(P)	15 36 26	
			mu	T			1(S)	28.6	
		PPZ	4.6	7		24 WES	1(S)	16 02 00.2	
		PPH	0.8	7			1	00.7	c
	20 WES	1P		09 52 44.7		25 WES	1P	05 09 10.4	c
		1S		10 01 00					
			mu	T					
		PZ	1.5	7					
		PH	0.7	7					
		SH	5.6	13					
		Bolivia	Mag. 5 3/4						
	20 WES	eP'		21 40 26					
		eS		49 19					
		R from West							
	23 WES	eP		19 52 41					
		eS		57 57					
		ePP		54 00					

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WESTON PRELIMINARY SEISMIC READINGS

No. B-9

3 September 1965

August				Arrival Time (GMT)
27	WES	i	15	19 49.8
		e		20 20
27	WES	e	17	36 40
		i		50.6
27	WES	e	18	34 45
27	WES	e	21	34 36
		i		54.5
28	WES	i	10	59 48.7 d
29	WES	iP	01	52 22.2 c
		ePP		53 36
		eS		57 35
		R from	(w) SW	
		mu	T	
	PZ	1.0	8	
	PH	0.6	7	
	PPZ	0.6	6	
	PPH	0.6	6	
	SH	0.8	10	
	Mag.	5.7		
31	WES	e	07	51 45
		R from	NE	
31	WES	i	08	40 09.8
		i		41 11.5

August				Arrival Time (GMT)
31	WES	eP	23	24 49
		R from	SW	
September	1	WES	iP	04 40 35.4 c
	1	WES	eP	05 06 23
	1	WES	e(P)	05 09 25
	2	WES	eP	04 37 45
		e		46 16
		e		51 24
		R from	N(E)	

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WESTON PRELIMINARY SEISMIC READINGS

No. B-10

1 October 1965

		Arrival Time (GMT)						Arrival Time (GMT)					
September	4	WES	eP	07	59 09	September	6	WES	1P	11 55 01.2			
		eS	08	07 44									
		eScS		09 19	6			WES	1P	21 20 44.7			
		eSS		12 00				ePP		22 21			
		R from WNW						eS		26 37			
		BNH	eP	07	58 58				R from SE				
		CBM	1P		57.3			8	WES	1P	03 35 21.5		
		EMM	eP		59 10				ePP		37 28		
		MIM	eP		03				eSS		42 46		
		Aleutian Islands							R from NNW				
	4	WES	eP	10	32 12		8	BHN	eP	03 35 09.4			
		eS		42 33	CBM			1P		08.6			
		R from WNW			EMM			1P		22.8			
		BNH		10	32 04			MIM	eP		14.2		
		CBM	eP		31 58								
		EMM	1P		32 10.5			8	WES	1P	11 25 50.		
		MIM	eP		05.5				eS		33 20		
								BNH	e	11 25 45			
								CBM	eP		37		
									i		45.5		
	4	WES	eP	14	41 49		8	EMM	1P	52.5			
		eS		49 04	MIM			e		49			
		ePPP		44 52									
		BNH	eP	14	41 37.5			8	WES	1	15 36 02.0		
		CBM	eP		35								
		EMM	eP		50			9	WES	1P	10 09 51.2		
		MIM	eP		41				ePP		11 09		
		Aleutian Islands							eS		15 30		
								BNH	1P	10	09 58.8		
								CBM	eP		10 22.5		
	4	WES	e(P)	21	49 48	EMM	eP		08				
		eS	22	00 00	MIM	1(P)		06.0					
		ePS		51	Off coast of S Mexico								
		eSSS		09 07									
		R from SSW											

No. B-10

-2-

1 October 1965

September	9	WES	i	21	39 40.5 dsw
	11	BNH	i	07	11 57.3
		CBM	i		57.3
		EMM	i		12 01.1
		MIM			11 58.7

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WESTON PRELIMINARY SEISMIC READINGS

No. B-12

8 October 1965

Arrival Time (GMT)

Arrival Time (GMT)

September 11 WES eP' 07 11 59
eSKS 19 03
R from West

12 WES 1P^a 08 59 15.6 d
ePP 09 01 16
eSKS 06 20
eSS 18 27
R from WNW

12 BNH 1P 20 54 16.8
CBM 1(P) 54 05.8
EMM 1P 53 42.2
IS 54 35.3
MIM 1P 53 59.2
Local Blast

12 WES 1(P') 22 21 45.2 c
ePP 24 09
ePKS 25 09
eSS 41 37
BNH i 22 21 41.5
CBM i 35.9
EMM i 37.1
MIM i 38.9

13 WES 1P 13 19 06.6 dw
BNH e 13 18 25
CBM e 18 48.9
EMM e 19 02.4
MIM e 19 01.3

September 16 BNH 1P 19 51 56.8
MIM 1P 52 10.2

16 WES 1P 19 52 33.3
eS 54 27
BNH 1P 19 53 01.4
EMM e(P) 25.7
MIM e(P) 53 16.8

17 WES 1P 11 21 46.7
ePP 23 36
IS 28 09
ISS 31 23
S(W) of Weston

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WESTON PRELIMINARY SEISMIC READINGS

WESTON PRELIMINARY SEISMIC READINGS

No. B-11

1, October 1965

		Arrival Time (GMT)						Arrival Time (GMT)			
September	25	WES	e	20	14 42	September	28	WES	eP ¹	05	26 30
			R from East					ePP		27	43
	26	WES	IP	00	43 05.4			eSKS		33	27
		BNH	e		19			eSS		43	50
		CBM	e		45.1				R from West		
		EMM	e		38.2				S Fiji Basin Mag. 6.1		
		MIM	e		32.6		29	WES	IP	23	26 35.30
	26	WES	e	10	09 06			eS		31	42
			eS		13 30				R from ENE		
			R from NE					BNH	eP	23	26 29
		BNH	e		08 43			CBM	IP		04.4
		CBM	e		09.5			EMM	IP		05.0
		EMM	e		16.5			MIM	IP		14.0
		MIM	e		29.6				North Atlantic Ridge		
	26	WES	eP	21	47 41		30	WES	eP	23	56 18
			eS		59 51			eS		24	03 16
			ePP		51 50			eSS		06	41
			R from SE						R from (NNE)		
	27	WES	IP	05	20 19.7			CBM	e	23	55 51
			eS		29 28			EMM	e		56 11
			eSS		34 33			MIM			56 04
			R from (W)NW								

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WESTON PRELIMINARY SEISMIC READINGS

No. B-14

15 October 1965

Arrival Time (GMT)

Arrival Time (GMT)

October 1 WES iP 09 03 13.1dnw
ePP 05 56
eS 12 23
eR 25.4
R from WNW
mu T
PZ 5.2 10
PH 1.8 10
PPZ 2.7 16
PPH 1.4 16
SH 6.3 10
Mag. 6.3
BNH iP 09 03 03.0
CBM iP 00.6
EMM i(P) 13.2d
MIM iP 06.3

3 WES iP 10 56 41.0cse

3 WES iP 14 57 30.9cse
ePPP 02 22
eS 07 27
eSS 12 36
eR 22.1
R from NNW
mu T
PZ 1.5 8
PH 0.7 8
SH 2.0 12
BNH eP 14 57 20.4cse
CBM eP 14.7cse
EMM eP 26.8cse
MIM eP 21.7cse

October 3 WES iP 16 27 29.8dse
iS 38 03
eSS 43 30
eR 17 05.9
R from SSE
mu T
PZ 2.7 9
PH 0.8 9
SH 7.2 14
BNH eP 16 27 40.2dse
CBM eP 51.5ds
EMM eP 42.6ds
MIM eP 44.7cne
South Atlantic Ocean
Mag. 6.1

4 WES e 04 22 12
R from WNW

4 WES e(P) 06 30 04
ePP 31 23
eS 35 31
eR 40.1
R from WSW

5 WES e 00 38 41
e 41 05

5 WES e 14 39 52
BNH i 38 00.4cw
CBM i 37 34.7cw
EMM i 38 02.0c
MIM i 37 58.9csw

No. B-14

-2-

15 October 1965

October 5 WES iP 20 47 24.2
iS 29.0

7 WES e 01 39 50
eR 02 08.0
R from West

7 WES 1 17 40 52.6cnw
eR 18 08
R from West

8 WES eR 04 36.6
R from West

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WESTON PRELIMINARY SEISMIC READINGS

No. B-15

15 October 1965

Arrival Time (GMT)

October 10	WES	e	17 44 36
		eR	18 21.7
		R from SE	
13	WES	iP	13 50 09.8 cse
		eS	57 39
		eR	14 11.1
		R from WNW	
13	WES	e	15 07 08
		eR	45.9
		R from West	
14	WES	i	10 50 39.3
		iS	53 34.9
	BNH	e	10 49 32
		e(S)	52 15
	CBM	e(S)	10 51 06.5
	EMM	e	10 49 47
		e(S)	52 04
	MIM	e	10 49 19
		e(S)	52 02

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WESTON PRELIMINARY SEISMIC READINGS

No. B-16

22 October 1965

Arrival Time (GMT)					Arrival Time (GMT)				
October	14	WES	i	22 09 59.2n	October	20	WIS	1P	11 18 48.2
							eS		27 30
	15	WES	i	00 19 26.2c			BNH	1P	11 18 37.5
		e		42 13			CBM	eP	36
		e		48 48			EMM	eP	49
		eR		54.5			MIM	1P	41.4
		BNH	e	00 42 26			Aleutian Islands		
	18	WES	e(P)	22 09 30		20	WES	1P	24 01 00.0
		ePP		12 03			ePP		02 14
		e		13 25			eS		06 17
		eR		55.2			eR		24 09.9
		R from NW					R from SSW		
		BNH	e	22 09 23.4c			BNH	1P	01 18 3
		e		13 01.4			CBM	eP	43
		CBM	e	09 23.7c			EMM		--
		e		13 05.8			MIM	e	28
		EMM	e	09 27.5c					
		MIM	e	25.1c					
						21	WES	1P	02 08 18.2
							i		11 08.2
							e		13 50
							BNH	eP	08 27
							CBM	1P	09 03.0
							MIM	1P	08 49 6
	19	WES	1P	20 59 53.7d					
		ePP		21 04 28					
		eS		09 00					
		eR		27.7					
		R from NW							
			mu	T					
		SH	0.8	16					
		MAX H	14.7	20					
		BNH	1P	20 59 43.0d					
		CBM	1P	39.3d					
		EMM	1P	52.2d					
		MIM	eP	46 d					
		Near Islands, Aleutian							
		Mag. 5 1/2							
			</						

WESTON PRELIMINARY SEISMIC READINGS

No. B-17

29 October 1965

Arrival Time (GMT)					Arrival Time (GMT)				
October	22	WES	eP	18 46 48 c(s)	October	25	WES	iP	22 46 53.8 c
			e	50 53				ISP	47 37.5 d
			e	55 39				ePP	50 24
		BNH	iP	47 02.6 c				ISKS	57 06
		CBM		17.1 c				eS	21
		EMM		04.0 ce				eSS	58 10
		MIM		06.5 c				mu	T
								PZ	6.1 11
								PPZ	2.0 15
								SH	21 15
								Mag.	=6 1/4-6 1/2
								H	= 150 km.
								North of Hokkaido	
								BNHeP	22 46 44 ce
								CBM iP	37.7 cs
								EMM iP	48.9 c
								MIM eP	44 c
								26	WES
									iP
									12 25 53.0 d
									BNH
									eP
									26 07
									CBM
									eP
									22
									EMM
									iP
									08.2 dn
									MIM

									West Coast of
									Chile

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WESTON PRELIMINARY SEISMIC READINGS

No. B-18

05 November 1965

Arrival Time (GMT)

Arrival Time (GMT)

October 29 WES iP 21 10 59.8 c(s)e
BNH iP 10 49.1 c(se)
CBM iP 10 46.5 cs(e)
EMM iP 10 59.3 cse
MIM iP 10 52.3 c(s)e

30 WES e 07 22 48
e 26 03
e 10
e 32 13
e(L) 43 00
eR 48.9
R from WEST

31 WES iP 13 58 39.8 d(s)
BNH iP 53.9 ds(e)
CBM iP 59 07.7 ds
EMM iP 54.5 ds
MIM eP 57.3 d

31 WES i(P) 17 43 50.0 c
e 54
e 18 06 49
eR 38.7
BNH iP 17 43 48.8 c
CBM eP 40.5 (c)
EMM iP 41.9 c
MIM eP 45.2 (c)

November 3 WES iP 01 47 14.1 ds
e 48 19
e 49 03
e 50 05
eS 53 44
e 56 01
e 57 03
BNH iP 01 47 30.2 d
CBM eP 47.1 dv
EMM eP 47 32.1 ds
MIM iP 34.8 d

3 WES e 18 42 32
e 47.0
e 52.9
eR 57.2
R from WSW

Rev. Daniel Linehan
Director
Weston Observatory

WESTON PRELIMINARY SEISMIC READINGS

No. B-19

23 November 1965

		Arrival Time (GMT)	
November	7 WES 1P	20 59	13.5
	1		24.0
	BNH 1P	58 48	5
	1		36.8
	e		52
	CBM eP	59 05	3
	EMM eP		19.4
	MIM eP		03.1

11 WES 1P 16 41 23.7

11 WES e(P) 03 11 13 c

12 WES e 17 36 09

12 WES e 18 10 25

13 WES 1P 04 46 58.1cw
 ePP 50 39
 eSKS 57 24
 eS 57 53
 ePS 59 04
 eSS 04 18
 e 05 41
 eSSS 07 47
 eR 16 44

R from North

	mu	T
PZ	3.1	8
PPZ	1.1	11
PPH	0.4	11
SH	3.1	13
MAXH	21	20

		Arrival Time (GMT)	
November	13 BNH eP	04 46	48.2
	CBM eP		34.0
	EMM eP		44.7
	MIM eP		42.7
	13 WES 1P	18 10	59.3cnw
	e		20 18
	R from South		

14 WES e(P) 03 23 13
 e 24 30
 e 26 06
 e 39
 eR 31.3
 R from SSW

15 WES eP 11 29 20 de
 eS 37 56
 e 38 13
 e 44 50
 e 45 21
 R from ESE
 CBM eP 29 23.2
 MIM 19

16 WES 1P 15 30 20.8de
 1 42
 e 34 10
 e 57
 e 35 51
 eR 36 37
 R from ESE

No. B-19

-2-

23 November 1965

Arrival Time (GMT)

November 18 WES	1P	22 09 51.0	ce
	e	19 21	
	e	26 26	
BNH	1P	22 09 40.7	
CBM	1P	34.2	
EMM	1P	45.1	
MIM		09 41.0	

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