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SEISMOLOGICAL BULLETIN

IGY SUPPLEMENT

December, 1958

COAST & GEODETIC SURVEY
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U. S. DEPARTMENT OF COMMERCE

Frederick H. Mueller, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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The instrumental results tabulated in this supplement are from the following seismographic stations which are located in three regions.

Antarctic

Byrd (BYRD)

South Pole (SP)

Arctic

Thule (THULE)
Greenland

Pacific

Guam (GUAM)
Mariana Islands

Koror, (KOR)
West Caroline Islands

Truk (TRUK)
East Caroline Islands

These stations were established by the Coast and Geodetic Survey for the IGY and will provide additional control for locating epicenters of teleseisms in regions inadequately covered by previously existing stations. They will also provide data for studies in regional seismicity, crustal structure and other pertinent earth science problems.

Date and Station		Phase (GCT)
		h m s
Dec. 1		
BYRD	eP	01 43 38
SP	eP	01 42 36
Dec. 1		
THULE	eP	03 30 14
Dec. 1		
SP	eP	03 37 45
Dec. 1		
BYRD	eP	04 53 41
SP	iP	04 54 56
	eP cP	55 58
Dec. 1		
BYRD	eP	05 14 35
SP	eP	05 15 04
Dec. 1		
BYRD	iP	05 27 22
SP	iP	05 27 18
Dec. 1		
SP	eP	05 59 30
Dec. 1		
BYRD	iP	06 24 02
	i	24 16
SP	iP	06 24 37
	i	24 50
Dec. 1		
THULE	iP	07 30 34
Dec. 1		
BYRD	iP	08 09 20
Dec. 1		
SP	eP	09 10 27
Dec. 1		
BYRD	eP	09 22 38
SP	eP	09 21 36
Dec. 1		
BYRD	eP	10 38 38
SP	iP	10 38 14
Dec. 1		
BYRD	eP	12 01 12
SP	eP	12 00 33
Dec. 1		
BYRD	eP	13 13 02
SP	eP	13 13 17
Dec. 1		
SP	iP	14 20 18

Date and Station		Phase (GCT)
		h m s
Dec. 1		
SP	iP	19 21 51
Dec. 1		
SP	iP	20 46 41
Dec. 1		
BYRD	eP	22 28 17
SP	iP	22 28 47
Dec. 1		
SP	iP	23 08 31
Dec. 2		
SP	iP	01 22 14
Dec. 2		
BYRD	iP'	01 31 50
SP	eP'	01 31 38
THULE	iP	01 22 11
	iPcP	22 58
	e	23 24
Dec. 2		
BYRD	iP	01 51 47
SP	iP	01 52 20
Dec. 2		
BYRD	eP	02 04 36
SP	iP	02 05 08
	i	05 52
Dec. 2		
BYRD	eP	04 08 54
SP	eP	04 07 59
Dec. 2		
THULE	eP	04 23 15
Dec. 2		
BYRD	iP	05 19 34
SP	eP	05 19 28
Dec. 2		
BYRD	eP	07 22 35
SP	eP	07 23 08
Dec. 2		
BYRD	eP	07 30 28
SP	eP	07 30 54
Dec. 2		
GUAM	iP	07 40 22
	iS	40 42
TRUK	eP	07 42 10
	iS	43 41
	eT	51 28

Date and Station		Phase (GCT)
		h m s
Dec. 2		
THULE	eP	09 04 52
Dec. 2		
BYRD	iP	10 23 59
SP	iP	10 24 35
Dec. 2		
SP	eP	11 15 07
Dec. 2		
BYRD	iP	11 45 22
SP	eP	11 46 02
Dec. 2		
GUAM	iP	20 11 05
	iS	11 29
Dec. 2		
SP	iP	20 16 22
Dec. 2		
THULE	eP	20 23 42
Dec. 2		
BYRD	iP	20 35 09
Dec. 2		
SP	eP	20 43 34
Dec. 2		
GUAM	iP	20 56 57
	iS	57 20
TRUK	eP	20 58 54
	iS	21 00 09
Dec. 2		
GUAM	iP	21 20 14
KOR	iP	21 20 41
SP	iP	21 28 18
TRUK	iP	21 18 50
Dec. 2		
TRUK	iP	23 11 53
Dec. 2		
SP	eP	23 33 08
Dec. 3		
BYRD	eP'	02 42 43
SP	iP'	02 42 24
Dec. 3		
BYRD	eP	03 55 51
Dec. 3		
GUAM	iP	04 41 25
	iS	41 44
TRUK	eP	04 43 10
	eS	44 34

Date and Station		Phase (GCT)
		h m s
Dec. 3		
BYRD	iP	08 50 33
Dec. 3		
BYRD	iP'	09 48 47
GUAM	eP	09 34 22
SP	iP'	09 48 41
Dec. 3		
BYRD	iP'	10 07 08
	ePP	07 51
	eSKS	14 06
	iPKKP	17 51
	e	21 01
GUAM	eP	09 53 35
KOR	eP	09 52 28
	iP	52 36
THULE	iP	10 01 00
	ePP	04 13
Dec. 3		
BYRD	eP	10 02 50
SP	eP	10 02 26
Dec. 3		
THULE	e(P)	15 08 32
	eS	09 20
Dec. 3		
BYRD	iP'	16 18 49
	iPKKP	29 00
GUAM	iP	16 04 26
	iS	07 15
KOR	iP	16 05 12
SP	iP'	16 18 47
THULE	iP	16 11 39
Dec. 3		
BYRD	iP	16 20 35
Dec. 4		
SP	iP	00 30 38
Dec. 4		
SP	iP	06 06 21
Dec. 4		
BYRD	iP	09 45 04
SP	iP	09 45 32
Dec. 4		
SP	eP	10 33 29
Dec. 4		
BYRD	eP	12 41 37
GUAM	eP	12 32 45

Date and Station		Phase (GCT)
		h m s
KOR	eP	12 30 10
	eS	31 44
SP	eP	12 41 19
Dec. 4		
BYRD	iP	17 18 12
	i	18 22
	e	19 21
SP	iP	17 18 46
	i	19 39
Dec. 4		
BYRD	iP	19 32 34
Dec. 4		
SP	eP	19 49 47
Dec. 4		
SP	eP	21 12 29
Dec. 4		
SP	eP	21 43 32
Dec. 4		
BYRD	eP	22 12 31
SP	eP	22 12 11
Dec. 5		
SP	iP	00 01 21
Dec. 5		
SP	iP	03 49 39
Dec. 5		
BYRD	eP	04 12 48
SP	eP	04 12 27
Dec. 5		
BYRD	iP	04 14 57
KOR	eP'	04 23 23
SP	eP	04 14 37
Dec. 5		
GUAM	iP	13 14 24
	iS	14 34
TRUK	iP	13 17 06
	iS	18 34
Dec. 5		
BYRD	iP	14 32 52
Dec. 5		
TRUK	iP	15 04 11
Dec. 5		
SP	eP	16 51 52
Dec. 5		
SP	iP	20 06 18

Date and Station		Phase (GCT)
Dec. 5		h m s
BYRD	iP	20 24 59
SP	eP	20 25 45
Dec. 5		
BYRD	iP	21 56 12
	i	56 47
SP	iP	21 56 54
Dec. 5		
GUAM	iP	22 40 19
Dec. 5		
KOR	eP	23 37 42
THULE	eP	23 46 13
Dec. 6		
BYRD	eP	06 31 29
SP	iP	06 32 02
Dec. 6		
BYRD	eP	09 46 41
	eS	56 55
SP	eP	09 47 18
	ePP	51 25
THULE	eP	09 45 02
	ePcP	45 16
	epP	45 35
	ePP	47 40
Dec. 6		
THULE	iP	09 56 39
Dec. 6		
THULE	iP	10 03 46
Dec. 6		
THULE	iP	15 11 09
Dec. 6		
THULE	e(P)	15 35 50
Dec. 6		
THULE	eP	15 37 37
Dec. 6		
BYRD	eP	21 02 04
	i	03 46
SP	iP	21 01 25
Dec. 6		
BYRD	iP'	22 54 45
SP	iP'	22 54 42
THULE	eP	22 46 50
Dec. 7		
SP	iP'	00 25 40
	i	25 55
THULE	iP	00 14 24

Date and Station		Phase (GCT)
Dec. 7		h m s
THULE	iP	00 53 00
Dec. 7		
GUAM	iP	01 14 34
KOR	e(P)	01 13 48
	iP	13 52
THULE	iP	01 21 41
Dec. 7		
KOR	eP	01 48 23
THULE	iP	01 56 14
Dec. 7		
GUAM	iP	02 50 30
KOR	iP	02 47 57
	iS	49 27
	iL	49 56
SP	iP	02 59 11
	ePP	03 02 51
	eSKS	09 42
Dec. 7		
SP	iP	04 49 10
Dec. 7		
GUAM	iP	06 25 45
KOR	eP	06 26 53
	eS	30 45
	eL	31 10
SP	eP	06 34 39
Dec. 7		
BYRD	iP	14 09 14
SP	iP	14 09 46
Dec. 7		
SP	iP	16 02 29
	i	02 34
Dec. 7		
THULE	eP	18 08 18
Dec. 7		
SP	iP	20 22 30
Dec. 7		
SP	eP	22 00 43
Dec. 8		
KOR	iP	01 37 23
	eS	38 37
Dec. 8		
BYRD	iP	03 21 38
SP	iP	03 21 52
	epP	22 41
Dec. 8		
BYRD	eP	09 45 12

Date and Station		Phase (GCT)
Dec. 8		h m s
BYRD	iP'	12 01 35
SP	iP'	12 01 35
THULE	eP	11 51 59
Dec. 8		
BYRD	eP'	12 27 39
	i	27 57
	iSKP	31 09
KOR	eP	12 15 58
	i	16 19
SP	eP'	12 27 40
	ePP	30 17
	eSKP	31 09
THULE	iP	12 18 07
Dec. 9		
BYRD	eP	00 52 40
KOR	eP	00 44 47
SP	iP	00 52 12
Dec. 9		
BYRD	eP	01 04 12
Dec. 9		
BYRD	iP	02 48 43
SP	iP	02 49 16
	i	49 28
Dec. 9		
BYRD	eP	03 13 40
SP	eP	03 14 12
	i	14 23
Dec. 9		
SP	eP	04 15 55
Dec. 9		
BYRD	iP	08 13 22
KOR	eP	08 05 37
SP	eP	08 12 53
TRUK	eP	08 07 54
Dec. 9		
THULE	iP	09 04 12
Dec. 9		
SP	eP	10 00 36
Dec. 9		
SP	iP	12 21 20
	i	22 05
Dec. 9		
BYRD	iP	12 29 19
KOR	eP	12 25 21

Date and Station		Phase (GCT)
		h m s
SP	iP	12 29 33
TRUK	eP	12 23 34
Dec. 9		
SP	eP	18 00 22
Dec. 9		
BYRD	iP	19 16 09
SP	eP	19 16 45
THULE	eP	19 14 09
Dec. 9		
BYRD	iP	19 29 43
	epP	30 27
GUAM	iP'	19 38 55
SP	iP	19 30 19
	ipP	31 06
Dec. 9		
BYRD	eP'	21 00 43
SP	eP'	21 00 32
THULE	iP	20 51 22
Dec. 10		
THULE	iP	02 51 48
Dec. 10		
BYRD	eP'	04 02 44
	iP'	02 51
	iSKP	06 11
	eSKKP	15 11
SP	iP'	04 02 31
	epP'	03 06
	eSKKP	15 57
THULE	iP	03 54 08
	iPP	56 32
Dec. 10		
BYRD	iP	06 28 39
Dec. 10		
BYRD	iP	07 11 24D
	ipP	12 28
	iPP	13 23
	ipPP	13 52
	isPP	14 11
	i	15 17
	iScP	16 07
	iPcS	16 40
	iS	18 15
	isS	20 08
	iScS	20 32
	eSS	22 45
	eL	23 40
GUAM	iP	07 12 31C
	ipP	13 44
	iS	20 09
	isS	21 55

Date and Station		Phase (GCT)
		h m s
KOR	iP	07 12 35C
	ipP	13 16
	eScP	16 46
	iS	20 24
SP	iP	07 11 55C
	ipP	12 57
	isP	13 22
	iScP	16 22
	iS	19 05
	eScS	21 08
THULE	eP'	07 21 26
	i	21 33
	ePP	24 02
	eSKP	24 33
TRUK	iP	07 11 28D
	i	11 46
	ipP	12 10
	iScP	16 08
	ipS	19 32
	isS	20 02
	eScS	20 51
	eSS	22 01
Dec. 10		
BYRD	eP'	07 40 25
	epP'	41 29
	ePP	41 46
	ipPP	43 08
GUAM	iP	07 26 13
KOR	iP	07 27 02
SP	eP'	07 40 21
	epP'	41 18
	ePP	41 44
TRUK	iP	07 27 24
Dec. 10		
BYRD	eP	07 39 12
SP	eP	07 38 52
Dec. 10		
TRUK	iP	07 49 01
Dec. 10		
BYRD	eP	10 05 03
Dec. 10		
BYRD	iP	14 52 24
	e	55 13
	ePP	56 11
	ePKKP	15 08 47
	iPKKP	08 49
	i	09 15
GUAM	e(P)	14 43 27
	iP	43 30
	ipP	44 06
KOR	iP	14 41 10
	iS	42 47
	eT	49 32

Date and Station		Phase (GCT)
		h m s
SP	iP	14 52 06
	e	55 28
	ePP	55 54
	epPP	56 37
	eSKS	15 02 16
	ePKKP	09 00
THULE	eP	14 52 18
TRUK	iP	14 44 20
Dec. 10		
SP	iP	16 05 01
Dec. 10		
BYRD	eP	16 23 46
SP	eP	16 24 21
Dec. 10		
SP	eP	16 55 41
	e	57 33
Dec. 10		
SP	iP	20 15 42
Dec. 10		
SP	eP	20 59 03
	e	59 24
Dec. 10		
SP	iP	21 23 52
Dec. 10		
SP	iP	21 40 59
	i	41 43
Dec. 10		
THULE	eP	21 59 01
	ePP	22 01 09
Dec. 10		
BYRD	eP	22 06 05
SP	iP	22 06 08
Dec. 10		
THULE	eP	22 19 40
Dec. 10		
BYRD	iP	22 29 41
SP	eP	22 30 47
Dec. 10		
BYRD	iP	23 12 27
SP	iP	23 11 58
Dec. 11		
BYRD	eP	01 12 16
SP	iP	01 12 44
Dec. 11		
BYRD	iP	02 29 10
	eL	34 25

Date and Station		Phase (GCT)
		h m s
SP	eP	02 30 17
Dec. 11		
BYRD	eP'	06 18 36
THULE	eP	06 09 05
Dec. 11		
BYRD	eP	07 34 58
	e	35 55
SP	eP	07 34 18
	e	35 15
Dec. 11		
SP	iP	07 46 49
Dec. 11		
THULE	iP	09 45 03
Dec. 11		
THULE	eP	10 00 47
Dec. 11		
BYRD	iP	12 35 49
	ePP	37 46
SP	iP	12 34 46
Dec. 11		
BYRD	iP	13 59 40
SP	iP	14 00 10
Dec. 11		
GUAM	iP	15 14 43
	iS	18 19
KOR	eP	15 15 47
THULE	eP	15 21 55
Dec. 11		
BYRD	iP'	15 52 21
GUAM	iP	15 37 37
KOR	eP	15 38 42
SP	iP'	15 52 19
THULE	iP	15 44 50
TRUK	iP	15 38 57
Dec. 11		
BYRD	iP'	18 57 08
	i	57 22
GUAM	iP	18 42 22
KOR	eP	18 43 29
SP	iP'	18 57 05
	ePP	58 41
THULE	iP	18 49 37

Date and Station		Phase (GCT)
		h m s
TRUK	iP	18 43 43
Dec. 11		
SP	iP	23 32 02
Dec. 12		
BYRD	iP	02 22 05
SP	iP	02 22 39
Dec. 12		
BYRD	iP	02 28 58
SP	iP	02 29 31
Dec. 12		
SP	iP	03 07 21
Dec. 12		
BYRD	iP	03 12 04
SP	eP	03 12 39
Dec. 12		
BYRD	iP	05 49 02
SP	iP	05 48 52
	i	49 11
TRUK	eP	05 39 32
	eT	53 53
Dec. 12		
BYRD	iP	06 46 43
	e	46 57
SP	iP	06 46 46
	e	47 01
TRUK	eP	06 37 53
	eT	52 09
Dec. 12		
BYRD	eP	08 01 06
	e	01 44
Dec. 12		
THULE	eP'	09 26 51
Dec. 12		
GUAM	iP	17 36 17
	iS	36 28
TRUK	iP	17 37 55
	eS	39 18
Dec. 12		
SP	eP	18 22 57
Dec. 12		
SP	eP	18 28 26
Dec. 12		
SP	iP	19 11 49
Dec. 12		
BYRD	iP	22 24 30

Date and Station		Phase (GCT)
		h m s
Dec. 12		
SP	iP	22 44 10
KOR	iP	22 35 39
Dec. 13		
BYRD	eP	00 07 50
Dec. 13		
SP	eP'	01 35 59
Dec. 13		
TRUK	iP	02 49 48
	iS	51 43
Dec. 13		
KOR	iP	09 11 03
	e	11 28
TRUK	e(P)	09 08 58
	iP	09 02
	iS	11 09
	eT	20 16
Dec. 13		
SP	iP	09 14 17
	i	15 32
	iPcP	16 57
Dec. 13		
SP	eP	12 12 41
Dec. 13		
SP	iP	12 49 26
Dec. 13		
SP	iP	14 04 16
Dec. 13		
SP	iP	14 12 39
TRUK	e(P)	14 06 09
	iS	08 12
Dec. 13		
SP	eP'	14 47 51
Dec. 13		
TRUK	eP	15 29 11
	iS	31 02
Dec. 13		
BYRD	iP	17 38 18
SP	iP	17 38 34
Dec. 14		
SP	eP	03 11 35
Dec. 14		
BYRD	iP	04 05 31
KOR	iP	04 01 59
SP	iP	04 05 48
Dec. 14		
THULE	eP	04 16 00

Date and Station		Phase (GCT)
		h m s
Dec. 14		
BYRD	iP	07 19 49
	iS	26 39
	eL	30 16
Dec. 14		
BYRD	eP	07 33 42
Dec. 14		
KOR	iP	08 13 52
Dec. 14		
GUAM	iP	10 04 53
	iS	05 09
TRUK	eP	10 06 40
	iS	08 04
Dec. 14		
BYRD	eP	15 21 07
Dec. 14		
BYRD	iP	15 32 38
	i	33 10
Dec. 14		
BYRD	eP	15 48 22
Dec. 14		
BYRD	iP'	18 11 53
KOR	iP	17 58 36
GUAM	eP	17 57 35
Dec. 14		
THULE	iP	23 17 49
	e	18 40
	e(S)	19 41
	eL	20 46
Dec. 14		
BYRD	eP	23 31 58
Dec. 15		
BYRD	eP	00 03 09
Dec. 15		
BYRD	iP	03 11 59
SP	iP	03 12 37
Dec. 15		
BYRD	eP	03 58 51
Dec. 15		
SP	eP	06 39 44
Dec. 15		
SP	iP	06 43 30
Dec. 15		
SP	iP	06 46 37
	i	47 15
Dec. 15		
BYRD	eP	08 03 39

Date and Station		Phase (GCT)
		h m s
SP	eP	08 04 15
Dec. 15		
SP	iP	09 29 51
Dec. 15		
BYRD	eP'	12 05 37
	ipP'	05 58
SP	eP'	12 05 40
	ipP'	05 58
THULE	iP	11 56 09
Dec. 15		
BYRD	iP	12 50 02
	iPcP	51 10
SP	iP	12 50 37
	i	50 42
	iPcP	51 23
	eP'P'	13 19 58
Dec. 15		
BYRD	iP	14 07 52
SP	iP	14 08 30
Dec. 15		
SP	eP	14 31 00
Dec. 15		
SP	iP	18 54 25
	i	55 52
Dec. 15		
BYRD	iP	23 39 46
SP	iP	23 39 25
Dec. 16		
BYRD	eP'	02 51 42
SP	eP'	02 51 42
THULE	eP	02 42 10
Dec. 16		
BYRD	eP	03 05 51
SP	iP	03 05 21
Dec. 16		
BYRD	iP	03 28 53
SP	iP	03 29 21
	epP	29 44
Dec. 16		
SP	iP	10 11 05
	e	12 41
	e(S)	15 20
	e	16 51
Dec. 16		
TRUK	iP	12 10 04

Date and Station		Phase (GCT)
		h m s
Dec. 16		
SP	eP	17 33 53
	e	34 19
Dec. 16		
SP	iP	19 18 06
Dec. 16		
BYRD	iP	23 57 39
SP	iP	23 57 59
Dec. 17		
SP	iP'	02 45 29
	ipP'	45 42
	eSKP	49 05
THULE	eP	02 33 17
Dec. 17		
BYRD	eP	05 51 35
Dec. 17		
BYRD	iP'	09 15 26
	e	15 53
	epP'	17 10
	ePP	18 20
	iPKKP	25 44
GUAM	iP	09 01 23
	i	02 08
	isP	03 22
	eS	04 44
KOR	eP	09 02 08
SP	iP'	09 15 18
	iPKKP	25 53
THULE	iP	09 07 42
TRUK	eP	09 02 37
	epP	04 01
Dec. 17		
BYRD	eP'	15 53 12
GUAM	iP	15 39 16
	iPP	39 47
	eS	43 33
KOR	eP	15 39 17
SP	eP'	15 53 05
	ePP	54 20
THULE	iP	15 45 56
Dec. 17		
TRUK	eP	18 50 06
	eS	51 50
Dec. 17		
BYRD	eP	20 30 45
Dec. 17		
BYRD	eP	20 46 18
	ipP	46 42
		h m s
GUAM	eP	20 38 26
KOR	eP	20 38 50
	ipP	39 18
SP	iP	20 46 20
	ipP	46 44
	ePP	49 42
	eS	56 44
TRUK	iP	20 36 47
	iS	38 51
	eL	40 32
	eT	46 47
Dec. 17		
SP	eP	21 17 53
Dec. 18		
BYRD	iP	01 50 11
SP	iP	01 50 30
	epP	50 51
Dec. 18		
GUAM	iP	02 56 51
	iS	57 10
TRUK	eP	02 53 34
	iS	03 00 09
Dec. 18		
SP	e(P)	03 13 25
	i	13 51
Dec. 18		
BYRD	eP	05 17 23
KOR	eP	05 09 28
	i	10 11
SP	eP	05 16 57
	i(pP)	17 25
TRUK	e(P)	05 07 00
	iS	09 37
Dec. 18		
BYRD	eP	05 23 35
GUAM	i(P)	05 14 27
KOR	e(P)	05 13 54
SP	eP	05 23 25
	i	23 30
TRUK	iP	05 14 10
	i	18 49
	eT	28 35
Dec. 18		
KOR	eP	05 25 17
	eS	25 31
Dec. 18		
BYRD	iP	07 30 43
	i(pP)	30 58
		h m s
KOR	eP	07 23 38
SP	iP	07 30 12
	i(pP)	30 27
TRUK	iP	07 24 26
Dec. 18		
BYRD	eP'	07 44 02
	i	44 53
GUAM	iP	07 31 32
KOR	e(P)	07 30 15
	iP	30 36
SP	iP'	07 44 40
THULE	iP	07 38 54
Dec. 18		
BYRD	eP'	07 52 29
	i	55 43
SP	iP'	07 52 05
THULE	iP	07 44 42
Dec. 18		
BYRD	iP	08 36 50
SP	iP	08 37 19
TRUK	iP	08 33 27
Dec. 18		
BYRD	eP	08 48 46
SP	eP	08 48 14
Dec. 18		
SP	eP	09 11 16
Dec. 18		
BYRD	eP	12 35 11
Dec. 18		
SP	eP	12 34 42
Dec. 18		
BYRD	eP	13 28 30
	e	28 51
GUAM	eP	13 21 14
KOR	iP	13 20 58
	i	21 25
SP	iP	13 28 28
	epP	28 52
TRUK	eP	13 18 57
	iS	21 00
Dec. 18		
KOR	iP	15 11 18
	iS	11 32
		h m s
Dec. 18		
BYRD	iP	18 14 19
	ipP	14 28
KOR	eP	18 07 20
SP	iP	18 14 22
	ipP	14 32
TRUK	e(P)	18 05 22
	iP	05 24
	eS	08 12
	eT	19 52
Dec. 18		
BYRD	iP	19 34 56
	eS	43 50
	eL	52 24
GUAM	eP	19 32 58
KOR	eP	19 33 44
SP	eP	19 35 30
	eS	45 15
Dec. 18		
BYRD	iP	19 41 17
SP	eP	19 41 52
Dec. 18		
BYRD	iP	20 42 35
SP	eP	20 43 09
	i	43 21
Dec. 18		
SP	i(P)	20 56 59
	eP	57 21
TRUK	eP	20 47 25
	iS	49 31
Dec. 18		
THULE	eP	23 16 28
Dec. 19		
BYRD	iP	00 51 39
Dec. 19		
THULE	eP	03 36 57
Dec. 19		
BYRD	eP	04 34 39
GUAM	iP	04 26 39
TRUK	iP	04 25 18
Dec. 19		
SP	eP	04 51 23
Dec. 19		
GUAM	iP	06 01 55
	iS	02 19
TRUK	eP	06 02 35
	iS	03 48

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Date and Station		Phase (GCT) h m s
Dec. 19		
BYRD	eP	09 57 43
	eS	10 04 26
	eL	07 38
SP	eP	09 58 56
Dec. 19		
GUAM	eP	10 57 25
	iS	58 27
	eT	11 02 38
KOR	e(P)	10 57 23
	iP	57 27
	iS	58 26
	eL	58 41
THUK	eP	10 59 02
	eS	11 01 21
Dec. 19		
BYRD	iP	11 25 29
	ipP	25 46
	isP	25 56
	ePP	27 49
	iS	34 23
	e	53 24
	eP'P'	53 54
GUAM	iP'	11 34 07
KOR	iP'	11 34 29
SP	iP	11 26 09
	ipP	26 25
	isP	26 32
	eS	35 38
	eP'P'	53 38
THULE	e(P)	11 27 03
	epP	27 48
THUK	iP'	11 33 57
Dec. 19		
BYRD	eP	14 49 32
SP	eP	14 50 13
Dec. 19		
SP	eP	15 36 04
Dec. 19		
BYRD	eP'	18 55 41
SP	eP'	18 55 50
THULE	eP	18 44 41
Dec. 19		
THULE	iP	18 46 22
Dec. 19		
SP	iP	19 37 32
Dec. 19		
SP	iP	21 32 02

Date and Station		Phase (GCT) h m s
Dec. 20		
BYRD	eP	00 38 52
	eS	43 17
	iS	43 26
	eL	44 26
SP	iP	00 40 19
Dec. 20		
GUAM	iP	08 53 02
	iS	53 18
	iL	53 24
THUK	eP	08 55 11
	iS	56 51
Dec. 20		
BYRD	eP	09 40 35
SP	eP	09 40 30
Dec. 20		
SP	eP	16 40 24
Dec. 20		
BYRD	iP'	19 39 41
GUAM	eP	19 25 44
	eS	29 46
KOR	eP	19 25 45
	eS	29 50
SP	eP'	19 39 32
THULE	iP	19 32 25
Dec. 20		
SP	eP	21 21 17
Dec. 20		
BYRD	iP	21 25 37
	ipP	26 04
SP	iP	21 25 08
	ipP	25 32
Dec. 21		
BYRD	iP	01 19 28
SP	iP	01 19 59
Dec. 21		
THULE	eP	04 29 36
Dec. 21		
BYRD	eP'	06 06 00
	e	06 35
	ePP	08 50
	eSKP	09 19
KOR	eP	05 56 29
	ePP	58 42
	eS	06 04 39
SP	eP'	06 05 42
	eSKP	09 17

Date and Station		Phase (GCT) h m s
THULE	eP	05 56 17C
	iP	56 28
	iPcP	57 12
	iS	06 04 17
THUK	iP	05 57 50
Dec. 21		
SP	eP	10 09 25
Dec. 21		
BYRD	iP	13 14 17
SP	iP	13 14 47
Dec. 21		
SP	eP	13 19 55
Dec. 21		
KOR	eP	18 21 07
SP	iP	18 30 52
Dec. 21		
SP	eP	19 28 54
Dec. 22		
BYRD	eP	02 29 50
KOR	eP	02 22 33
	iP	22 36
SP	eP	02 29 45
THUK	iP	02 20 37
	iS	23 07
Dec. 22		
BYRD	eP	02 33 24
KOR	iP	02 26 11
SP	iP	02 33 23
Dec. 22		
BYRD	iP	03 25 27
	i(pP)	25 39
SP	eP	03 24 48
	iP	24 59
Dec. 22		
BYRD	iP	08 06 40
SP	iP	08 07 01
	epP	07 25
Dec. 22		
SP	eP	08 08 51
Dec. 22		
BYRD	iP	08 37 44
SP	iP	08 37 09
Dec. 22		
BYRD	eP	17 45 53
	i	46 08

Date and Station		Phase (GCT) h m s
SP	iP	17 46 16
	i	46 31
Dec. 22		
BYRD	iP	18 25 44
SP	iP	18 25 27
Dec. 22		
BYRD	eP	19 30 07
SP	iP	19 30 35
	i	30 58
	e	31 42
Dec. 22		
SP	iP	21 05 45
Dec. 23		
BYRD	iP	03 41 27
SP	iP	03 42 03
Dec. 23		
BYRD	iP	06 39 50
	i	40 01
	eS	50 14
SP	iP	06 40 27
	i	40 39
	i	40 46
	i	40 56
	ePP	44 16
	ePKKP	57 41
THULE	iP	06 38 54
Dec. 23		
SP	eP'	07 24 24
Dec. 23		
BYRD	iP	09 03 36
SP	iP	09 03 20
Dec. 23		
SP	eP	09 24 26
Dec. 23		
SP	eP	10 20 58
Dec. 23		
SP	eP	13 02 23
Dec. 23		
SP	iP	15 56 27
Dec. 23		
KOR	eP	17 25 06
SP	iP	17 32 17
THUK	eP	17 23 06
	eS	26 37
Dec. 23		
SP	eP	18 56 42

Date and Station		Phase (GCT)
		h m s
Dec. 23		
BYRD	eP	19 25 14
SP	eP	19 25 49
	iPcP	26 47
Dec. 23		
SP	eP	19 30 22
Dec. 23		
BYRD	eP	19 44 06
	iP	44 08
SP	eP	19 44 40
Dec. 23		
KOR	iP	22 33 29
	iS	33 33
Dec. 23		
BYRD	iP	23 59 39
SP	iP	00 00 12
Dec. 24		
GUAM	iP	01 10 18
Dec. 24		
BYRD	iP	01 25 54
GUAM	iP	01 17 49
KOR	eP	01 17 51
SP	iP	01 25 42
	ipP	26 12
TRUK	iP	01 16 30
Dec. 24		
SP	iP	02 18 50
Dec. 24		
BYRD	eP	02 58 08
Dec. 24		
SP	eP	03 [illegible] 37
Dec. 24		
BYRD	iP	04 50 26
	ipP	50 57
SP	iP	04 51 05
	i(pP)	51 37
Dec. 24		
SP	i(P')	05 25 54
Dec. 24		
BYRD	eP	06 44 02
SP	eP	06 44 38
Dec. 24		
SP	eP'	07 36 10
THULE	iP	07 26 59

Date and Station		Phase (GCT)
		h m s
Dec. 24		
KOR	eP	10 51 00
SP	iP	10 59 30
Dec. 24		
BYRD	iP	12 23 03
	ipP	23 30
	isP	23 39
SP	iP	12 23 42
	ipP	24 07
	isP	24 18
Dec. 24		
SP	eP	13 11 16
Dec. 24		
KOR	eP	14 18 02
	iP	18 06
SP	iP	14 26 03
Dec. 24		
BYRD	iP	16 06 27
SP	iP	16 07 08
Dec. 24		
SP	eP	20 24 22
Dec. 24		
BYRD	iP	20 46 30
SP	iP	20 46 48
Dec. 24		
SP	eP	22 12 32
Dec. 24		
BYRD	eP	22 22 07
	i	22 19
SP	iP	22 22 25
Dec. 25		
SP	iP	04 36 39
Dec. 25		
BYRD	iP	06 41 34
SP	iP	06 41 53
	e	42 42
Dec. 25		
BYRD	iP	08 18 10C
	ipP	18 21
	iSKS	28 26
	i(sS)	28 54
	eSS	33 49
	iP'P'	41 28
	eSKPP'	47 46
	eP'P'P'	09 04 39
GUAM	iP	08 10 14C
	i(ScP)	18 19

Date and Station		Phase (GCT)
		h m s
KOR	iP	08 10 25C
	iPcP	13 57
	iS	14 24
	epS	14 41
	eScP	17 31
	eScS	21 19
SP	iP	08 18 09C
	ipP	18 21
	ePP	21 32
	iSKS	28 27
	ePKKP	36 19
	eP'P'	44 17
TRUK	iP	08 08 44D
	iS	11 08
	eL	11 48
	eT	18 33
Dec. 25		
SP	eP'	09 31 14
	eSKP	35 13
Dec. 25		
BYRD	iP	09 49 07
GUAM	iP	09 41 14
KOR	e(P)	09 41 23
SP	iP	09 49 07
	ipP	49 19
TRUK	eP	09 38 48
Dec. 25		
BYRD	eP	11 22 54
SP	iP	11 23 24
Dec. 25		
SP	iP	12 35 10
Dec. 25		
SP	iP	14 45 50
Dec. 25		
BYRD	iP	15 58 45
SP	iP	15 58 09
Dec. 25		
SP	iP'	18 52 09
Dec. 25		
GUAM	iP	19 24 40
	iS	24 50
TRUK	eP	19 26 24
	iS	27 56
Dec. 25		
SP	iP	19 25 33
Dec. 25		
BYRD	eP	21 58 02

Date and Station		Phase (GCT)
		h m s
SP	iP	21 57 45
Dec. 26		
SP	iP	01 44 29
Dec. 26		
BYRD	iP	03 12 45
SP	eP	03 11 58
Dec. 26		
BYRD	eP	03 25 24
Dec. 26		
TRUK	eP	05 55 33
	iS	57 34
Dec. 26		
BYRD	iP	06 00 42
	ipP	02 45
	e	09 46
	eP'P'	29 32
GUAM	iP	05 59 11
SP	iP	06 01 12
	i	01 20
	ipP	03 13
	eS	09 30
	iP'P'	29 15
TRUK	iP	05 58 09
Dec. 26		
BYRD	eP	08 52 41
SP	eP	08 53 14
Dec. 26		
BYRD	iP	14 50 35
SP	iP	14 51 17
Dec. 26		
SP	iP	17 06 26
Dec. 26		
BYRD	iP	17 29 00
SP	iP	17 29 17
Dec. 26		
SP	iP	17 48 37
Dec. 26		
SP	iP	18 27 25
Dec. 26		
BYRD	eP	22 31 32
SP	iP	22 31 37
Dec. 26		
BYRD	eP	22 46 21
SP	iP	22 45 56
	e	46 24

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Date and Station		Phase (GCT)
		h m s
Dec. 26		
SP	eP	23 38 02
Dec. 27		
SP	eP	06 25 05
Dec. 27		
SP	iP	08 37 06
Dec. 27		
SP	iP	09 50 12
Dec. 27		
SP	eP	11 01 59
	iP	02 05
Dec. 27		
SP	iP'	13 55 50
Dec. 27		
SP	iP	19 32 29
Dec. 28		
BYRD	iP	05 26 30
	i	28 23
SP	eP	05 26 55
THULE	eP	05 24 11
Dec. 28		
BYRD	eP'	05 53 38
	iP'	53 49
	ePP	55 54
	iSKP	57 05
SP	iP'	05 53 29C
	ePP	54 51
	eSKS	06 00 20
	iPKKP	03 39
THULE	iP	05 46 03
TRUK	iP	05 45 58D
Dec. 28		
THULE	iP	06 36 37
	i	37 23
Dec. 28		
BYRD	iP	06 54 57
SP	iP	06 55 27
Dec. 28		
BYRD	eP'	08 45 23
SP	eP'	08 45 03
Dec. 28		
SP	eP'	12 06 46
THULE	iP	11 50 47
Dec. 28		
BYRD	iP	13 35 09
SP	iP	13 35 27

Date and Station		Phase (GCT)
		h m s
Dec. 28		
BYRD	eP	17 34 40
	i	34 44
SP	iP	17 34 33
	i	34 39
Dec. 28		
SP	iP	18 35 03
Dec. 28		
SP	eP	21 45 00
Dec. 28		
SP	eP	23 55 50
Dec. 29		
SP	iP	02 30 00
	i	30 07
Dec. 29		
SP	iP	02 55 38
	i	56 27
Dec. 29		
SP	iP	03 15 06
TRUK	iP	03 05 58
Dec. 29		
BYRD	iP	09 58 30
SP	iP	09 58 13
	i	58 26
Dec. 29		
BYRD	eP	16 46 06
SP	eP	16 46 06
Dec. 29		
SP	iP	20 14 29
Dec. 29		
BYRD	eP	20 38 14
SP	eP	20 39 06
Dec. 29		
BYRD	iP	22 52 14
	i(pP)	52 42
SP	iP	22 51 37
	iS	23 01 52
TRUK	eP	22 47 43
Dec. 29		
SP	iP	23 13 06
Dec. 30		
BYRD	iP	08 46 17
	i	46 26
	e	48 43
	eS	53 06
	eL	55 56
SP	iP	08 47 33
	ipP	47 42

Date and Station		Phase (GCT)
		h m s
SP	eS	08 55 15
	eL	09 04 00
	eP'P'	17 23
Dec. 30		
SP	eP	15 32 55
Dec. 30		
BYRD	iP	16 18 05
SP	iP	16 18 25
Dec. 30		
THULE	iP	16 28 49
Dec. 30		
BYRD	eP	23 42 36
SP	eP	23 43 09
Dec. 31		
SP	iP	01 45 56
Dec. 31		
GUAM	iP	01 54 21
	epP	55 48
	iScP	58 37
SP	iP	01 56 11
	ipP	57 34
	ePP	58 38
	eS	02 04 33
	iP'P'	24 23
THULE	eP'	02 03 53
TRUK	iP	01 53 10
Dec. 31		
THULE	iP	03 56 39
Dec. 31		
SP	iP	08 15 51
Dec. 31		
BYRD	iP	10 42 00
SP	iP	10 47 38
Dec. 31		
BYRD	iP'	10 50 01
THULE	eP	10 40 08
Dec. 31		
GUAM	iP	12 56 34
	iS	57 13
Dec. 31		
SP	eP	18 13 13
Dec. 31		
THULE	eP	19 23 57
Dec. 31		
BYRD	eP	19 33 28
SP	iP	19 33 59

Date and Station		Phase (GCT)
		h m s
Jan. 1		
TRUK	iP	00 06 41
	iS	10 24