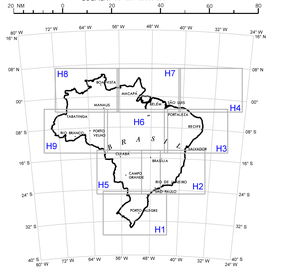
DEPARTAMENTO DE CONTROLE DO ESPAÇO AÉREO
INSTITUTO DE CARTOGRAFIA AERONÁUTICA
GERENCIAMENTO DE INFORMAÇÕES AERONÁUTICAS

H4 — SCALE ESCALA 1 : 2.000.000 — 13 OCT 16 EFFECTIVE/EFECTIVO — 18/2016 AIRAC AMDT / AMP — H3 SCALE ESCALA 1 : 2.000.000

BRASIL
CARTA DE ROTA (ENRC)

ENROUTE CHART (ENRC)
ESPAÇO AÉREO SUPERIOR
HIGH ALTITUDE

CONSULTE NOTAM EM VIGOR PARA INFORMAÇÕES MAIS ATUALIZADAS
REFER TO NOTAM FOR LATEST EFFECTIVE INFORMATION
ESCALA / SCALE: 1:2.000.000



AS LINHAS ISOGÓNICAS SÃO VÁLIDAS PARA O PERÍODO 2013 - 2018
THE ISOGONIC LINES ARE VALID UNTIL THROUGH THE PERIOD AT 2013 - 2018
PROJEÇÃO CÔNICA CONFORME DE LAMBERT PARALELOS PADRÕES SUD 23 26 e 33 0 04 48.2
LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 23 26 and 33 0 04 48.2

LEGENDA / LEGEND

REGIÃO DE INFORMAÇÃO DE VÔO (FIR)
FLIGHT INFORMATION REGION

INDICADOR DE LOCALIDADE DA FIR / FIR location indicator ..... FIR XXXXXXX - SBXX
CLASSIFICAÇÃO DO ESPAÇO AÉREO ATS E LIMITE INFERIOR E SUPERIOR / GND = SOLO - MSL = NÍVEL MÉDIO DO MAR - GND/MSL = SOLO/NÍVEL MÉDIO DO MAR / ATS airspace classification and lower and upper limit - GND / MSL ..... G XXX - MSL XXX
SETOR DE CONTROLE DA FIR / FIR control sector, ... S - Z
FREQUÊNCIA DO SETOR DA FIR / FIR frequency sector ..... XXX.XX

ÁREA DE CONTROLE TERMINAL (TMA) / TERMINAL CONTROL AREA

NOME DA TMA / TMA name ..... TMA XXX
CLASSIFICAÇÃO DO ESPAÇO AÉREO ATS E LIMITE INFERIOR E SUPERIOR / ATS airspace classification and lower and upper limit ..... A FL/XXX - FL/XXX; D XXXX' - FL/XXX
ÓRGÃO ATS QUE PRESTA SERVIÇO NA TMA / ATS unit rendering service at the TMA ..... APP
FREQUÊNCIA DO ÓRGÃO ATS / ATS unit frequency ..... XXX.XX XXX.XX XXX.XX XXX.XX

ZONA DE CONTROLE (CTR) / CONTROL ZONE

NOME DA CTR / CTR name ..... CTR XXXXXXX
CLASSIFICAÇÃO DO ESPAÇO AÉREO E LIMITES INFERIOR E SUPERIOR / Airspace classification and lower and upper limit ..... D XXXX - FL/XXX
ÓRGÃO ATS QUE PRESTA SERVIÇO NA CTR / ATS unit rendering service at the CTR ..... APP
FREQUÊNCIA DO ÓRGÃO ATS / ATS unit frequency ..... XXX.XX

ESPAÇO AÉREO CONDICIONADO / CONDITIONED AIRSPACE

IDENTIFICAÇÃO DA ÁREA / Area identification ..... SBR XXX
LIMITE SUPERIOR / Upper limit ..... FL XXX
LIMITE INFERIOR / Lower limit
LIMITE LATERAL / Lateral limit
ÁREA MUITO PEQUENA PARA REPRESENTAR / Area too small to depict
P - PROIBIDA / P - prohibited — R - RESTRITA / R - restricted — D - PERIGOSO / D - dangerous

ATS ROUTES

RUMO MAGNÉTICO / Magnetic heading
NÍVEL MÍNIMO DE VÔO / Minimum flight level
DESIGNADOR DA ROTA ATS / ATS route designator
SENTIDO DE VÔO / Flight direction
DISTÂNCIA EM NM / Distance in NM

ROTAS ATS - IDENTIFICAÇÃO / SIMBOLOGIA
ATS ROUTES - IDENTIFICATION / SIMBOLOGY

1) REPRESENTAÇÃO GRÁFICA / Grafic representation
ROTA DE NAVEGAÇÃO DE ÁREA / Area Navigation Route
ROTA ATS / Ats route
ROTA DE ASSESSORAMENTO / Advisory route
ROTA DE INFORMAÇÃO / Information route
2) SENTIDO DE VÔO / Flight direction
DUPLO SENTIDO / Two way
SENTIDO ÚNICO / One way

PONTOS DE NOTIFICAÇÃO / REPORTING POINTS

ROTA ATS CONVENCIONAL / ATS Route				ROTA DE NAVEGAÇÃO DE ÁREA - RNAV / Air Navigation Route - RNAV			
Compulsório / Compulsory		A pedido / On Request		Compulsório / Compulsory		A pedido / On Request	
ATS	ATS NET	ATS	ATS NET	ATS	ATS NET	ATS	ATS NET
X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX

AUXÍLIOS - RÁDIO / RADIO AIDS

VOR		VOR/DME		NDB	
Compulsório / Compulsory	A pedido / On Request	Compulsório / Compulsory	A pedido / On Request	Compulsório / Compulsory	A pedido / On Request
X-XX	X-XX	X-XX	X-XX	X-XX	X-XX

ROSA DOS VENTOS ORIENTADA PARA O NORTE MAGNÉTICO / Compass rose oriented to the magnetic north
NOME DO AUXÍLIO RÁDIO / Radio aid name XXXXXXX
IDENTIFICAÇÃO DO AUXÍLIO RÁDIO / Radio aid identification XXX
FREQUÊNCIA DO AUXÍLIO - RÁDIO /Radio aid frequency ..... 000.00 - 000.00 XXX
CÓDIGO MORSE / Morse Code ..... XX XX
COORDENADAS DO AUXÍLIO - RÁDIO / Radio aid coordinates ..... S 00 00.00 W000 00.00

AERÓDROMO / AERODROME

IFR
VFR
Elevação em pés / Elevation in feet — XXXX
Inclinação da pista / Runway inclination — 0.0%
Comprimento da maior pista, em centenas de metros / Length of the longest runway in hundreds of meters — XX
Pista pavimentada / Hard surface runway
Pista não pavimentada / Hard surface runway

GENERALIDADES / GENERAL

ESPAÇO AÉREO CONTROLADO (CTA) / Controlled airspace
LIMITE DE TMA / TMA boundary
LIMITE DE CTR / CTR boundary
LIMITE DE FIR - UTA / FIR - UTA boundary
LIMITE DE SETOR DE FREQUÊNCIA / Frequency sector boundary
FRONTEIRA INTERNACIONAL / International boundary
FRONTEIRA NACIONAL / National boundary
ÁREA DETALHADA EM ARC / Area detailed in the ARC
FUSO HORÁRIO / Time zone
ALTITUDE MÍNIMA DE ÁREA / Minimum area altitude — XX
LINHA ISOGÓNICA / Isogonic line — XX W
LINHA DE MARCAÇÃO PARTINDO DE UM PONTO DE NOTIFICAÇÃO PARA UM NDB / Bearing line outbound from report point to NDB — IDENTIFICAÇÃO DO NDB / NDB identification
RUMO MAGNÉTICO / Magnetic heading — FREQUÊNCIA DO NDB / NDB frequency
LINHA DE MARCAÇÃO PARTINDO DE UM VOR PARA UM PONTO DE NOTIFICAÇÃO / Bearing line outbound from VOR to report point — IDENTIFICAÇÃO DO VOR / VOR identification
RUMO MAGNÉTICO / Magnetic heading — FREQUÊNCIA DO VOR / VOR frequency

NÍVEIS DE CRUZEIRO / CRUISING LEVELS

VOOS IFR — ALTIMETRO: 1013.2 HPA, 29.92 POL.760 MM; RUMOS MAGNÉTICOS / IFR FLIGHT — altimeter setting: 1013.2 HPA, 29.92 in 760 MM; magnetic bearing

NÍVEIS DE CRUZEIRO — EXCETO OS CASOS PREVISTOS NAS CARTAS DE ROTA PARA CONTINUIDADE DE NÍVEIS EM ALGUMAS AEROVIAS / CRUISING LEVELS — except those cases provided in the Route Charts to keep flight level continuity in some airways

NAS AEROVIAS DE MÃO ÚNICA, TODOS OS NÍVEIS ESTÃO DISPONÍVEIS, INDEPENDENTE DO QUADRANTE A SER VOADO / Within the one-way airways, all levels are available, regardless the quadrant to be flown

VOOS VFR — ALTIMETRO: 1013.2 HPA, 29.92 POL.760 MM; RUMOS MAGNÉTICOS / VFR FLIGHT — altimeter setting: 1013.2 HPA, 29.92 in 760 MM; magnetic bearing

FL	FEET
010	1000
020	2000
030	3000
040	4000
050	5000
060	6000
070	7000
080	8000
090	9000
100	10000
110	11000
120	12000
130	13000
140	14000
150	15000
160	16000
170	17000
180	18000
190	19000
200	20000
210	21000
220	22000
230	23000
240	24000
250	25000
260	26000
270	27000
280	28000
290	29000
300	30000
310	31000
320	32000
330	33000
340	34000
350	35000
360	36000
370	37000
380	38000
390	39000
400	40000
410	41000

FL	FEET
15	1500
25	2500
35	3500
45	4500
55	5500
65	6500
75	7500
85	8500
95	9500
105	10500
115	11500
125	12500
135	13500
145	14500
155	15500
165	16500
175	17500
185	18500
195	19500
205	20500
215	21500
225	22500
235	23500
245	24500
255	25500
265	26500
275	27500
285	28500
295	29500
305	30500
315	31500
325	32500
335	33500
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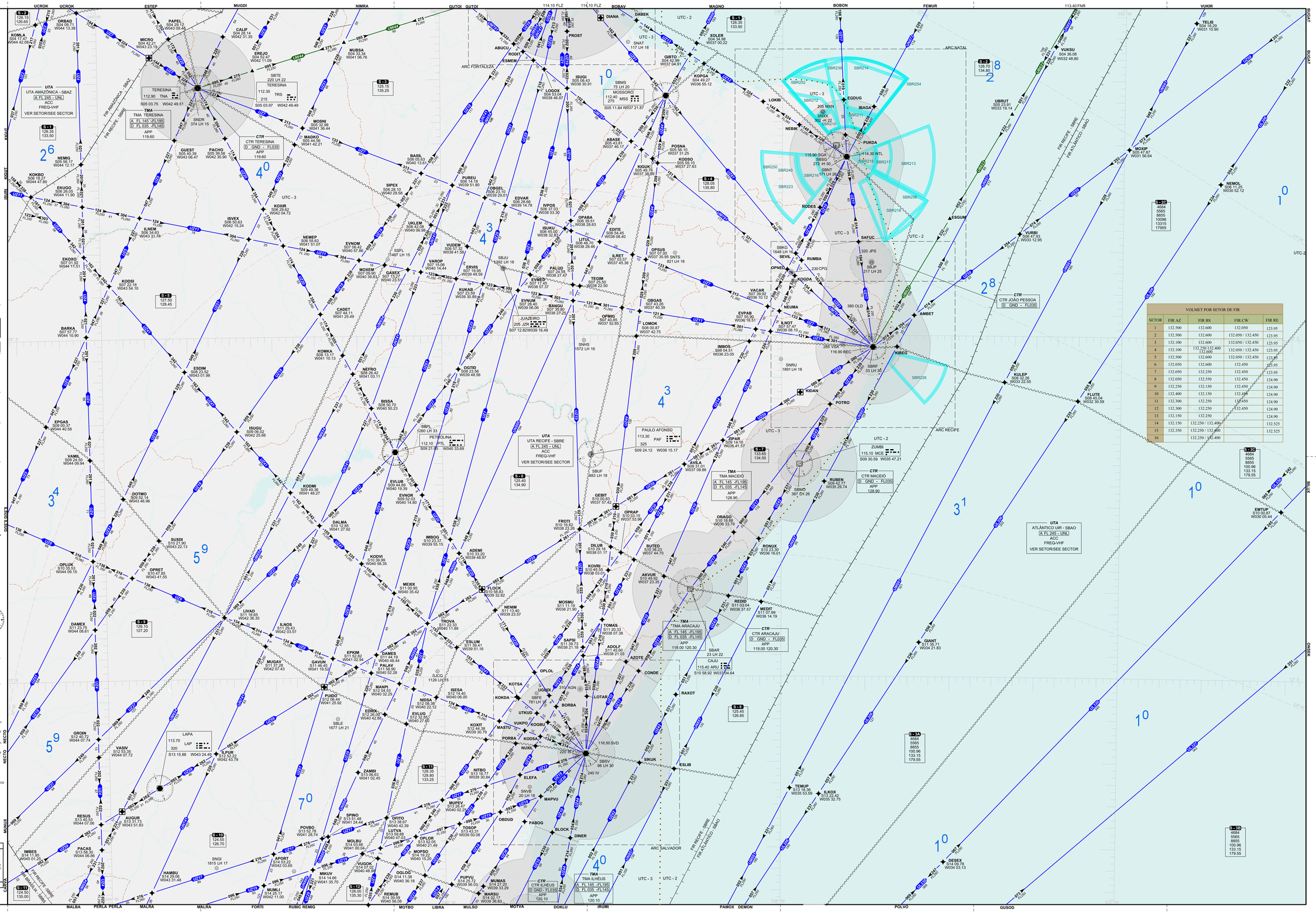
355	35500
365	36500
375	37500
385	38500
395	39500
405	40500
415	41500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REMIG
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LIBRA
MULSO
MOTVA
DOKLU
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ARC FORTALEZA
ARC NATAL
ARC RECIFE
ARC SALVADOR
FIR AMAZÔNICA - SBAZ
FIR RECIife - SBRE
FIR ATLÂNTICO - SBAO
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A FL 245 - UNL
ACC
FREQ-VHF
VER SETOR/SEE SECTOR
TMA
TMA TERESINA
A FL 145 -FL195
D FL 035 -FL145
APP
119.60
CTR
CTR TERESINA
D GND - FL035
APP
119.60
TERESINA
112.90 TNA
S05 03.75 W042 49.51
SBTE
220 LH 22
TERESINA
112.30
TRS
215
S05 03.97 W042 49.49
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UTA RECIFE - SBRE
A FL 245 - UNL
ACC
FREQ-VHF
VER SETOR/SEE SECTOR
PAULO AFONSO
113.30
PAF
325
S09 24.12 W038 15.17
MOSSORÓ
112.40
MSS
275
S05 11.84 W037 21.87
SBMS
75 LH 20
TMA
TMA MACEIÓ
A FL 145 -FL195
D FL 035 -FL145
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128.90
CTR
CTR MACEIÓ
D GND - FL035
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33 LH 30
SBSS
272 41 30
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171 LH 20
SBSG
387 DH 26
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66 LH 30
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116.50 SVD
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240 IV
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781 LH 16
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1292 LH 18
SBUF
883 LH 18
SBRP
1260 LH 33
SNRU
1891 LH 18
SNHS
1572 LH 16
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LAPA
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320
S13 15.88 W043 24.45
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S09 21.93 W040 33.69
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272 41 30
171 LH 20
114.30 NTL
320 JPS
217 LH 25
230 CPG
380 OLD
216 VSA
255 VSA
220 SSS
821 LH 16
S05 03.97 W042 49.49
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S10 38.23 W037 44.70
S10 49.02 W037 23.35
S10 58.93 W037 03.07
S11 00.56 W040 35.42
S11 19.19 W038 21.90
S11 20.33 W038 07.38
S11 40.60 W035 21.03
S11 57.69 W036 14.19
S12 14.40 W040 06.00
S12 32.85 W040 27.60
S12 44.38 W039 30.79
S13 16.77 W039 30.84
S13 43.31 W039 50.08
S13 51.48 W041 24.44
S13 52.05 W040 21.49
S14 19.22 W040 15.20
S14 25.72 W039 56.03
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