

Antenna satellite piatta con LNB singolo integrato SlimSat SA61

Antenna satellite piatta con LNB twin integrato SlimSat SA62

Antenna satellite piatta con LNB quad integrato SlimSat SA64



Manuale Utente



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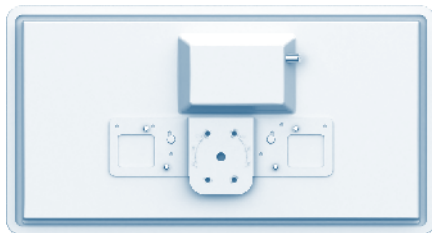
1.0 CHE COS'È SLIMSAT

SLIMSAT è un'antenna satellitare con operatività tipo array a tromba con doppia polarizzazione lineare per ricevere il segnale dai maggiori satelliti.

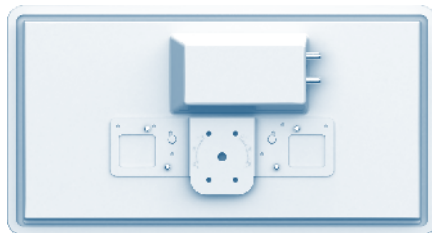
Piccola, discreta e facile da usare, si installa in pochi minuti e si può utilizzare come antenna portatile per le ricezioni satellitari.

SLIMSAT è utilizzabile per la ricezione di trasmissioni in chiaro e criptate (che richiedono un abbonamento con l'operatore); riceve inoltre tutti i canali HD con una qualità dell'immagine superiore. Per l'utilizzo e l'installazione, leggere e seguire attentamente le istruzioni del manuale.

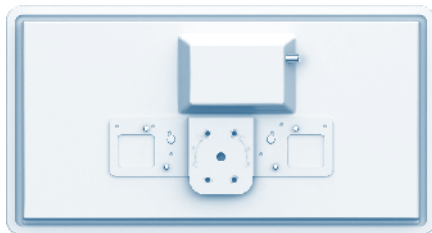
SlimSat SA61 con LNB singolo integrato per collegamento di 1 ricevitore satellite



SlimSat SA62 con LNB twin integrato un il per il collegamento di 2 ricevitori satellite



SlimSat SA64 con LNB quad integrato per connettere quattro ricevitori satellitari



2.0 SICUREZZA

- Prima di utilizzare questo prodotto, leggere attentamente il presente manuale e seguire esattamente le istruzioni di installazione, montaggio e orientamento.
- Vi preghiamo di seguire le seguenti istruzioni per evitare ogni problema tecnico.
- Qualsiasi campo magnetico vicino al SLIMSAT può causare una cattiva ricezione del segnale o addirittura comprometterla del tutto.
- Non perforare l'involucro di plastica dell'antenna, che la sigilla contro l'umidità.
- Maneggiare l'antenna con cura: qualsiasi urto può danneggiarne i componenti elettronici.
- Non togliere l'involucro: qualsiasi tentativo di riparazione da parte di personale non qualificato può essere pericoloso e annullare la garanzia.
- Ostacoli come costruzioni, alberi ecc. possono bloccare la ricezione del segnale dal satellite.
- Non dipingere o aggiungere altre sostanze sull'antenna, poiché possono impedire la ricezione del segnale dal satellite.
- Il cavo tra l'antenna e il ricevitore satellitare non deve eccedere i 30 m, pena la diminuzione della qualità del segnale.

- L'utilizzo di un jack non isolato può determinare perdita del segnale.
- Per la prima installazione è consigliabile utilizzare la schermata di misura in modo a ottenere una ricezione ottimale (Per ulteriori dettagli, vedere passo 6)
- Ricordarsi di regolare la cross polarizzazione o angolo di skew dell'antenna e della staffa (angolo di skew: vedere passo 5).
- Una volta effettuata la regolazione, stringere bene tutte le viti dell'antenna.
- Questo prodotto contiene l'LNB universale ed è formalmente vietato aggiungere, cambiare o modificare l'LNB.
- Per maggiori dettagli sui punti precedenti o per qualsiasi altra informazione contattare il rivenditore o direttamente il servizio clienti.



ATTENZIONE!!!

Le antenne non correttamente installate o installate in una struttura inadeguata sono facilmente danneggiabili dal vento. Tali danni possono essere molto seri o addirittura mortali. Il proprietario e l'installatore sono pienamente responsabili del fatto che l'installazione sia strutturalmente adeguata per sopportare tutti i carichi (peso, vento e gelo) e adeguatamente sigillata contro dispersioni. Il costruttore non si riterrà responsabile per qualsiasi tipo di danno causato dal sistema satellitare dovuto ad una non corretta installazione.

3.0 COME INSTALLARLA

Seguendo passo a passo le istruzioni è possibile installare con facilità il SLIMSAT, da soli o con l'aiuto di un antennista professionista.

Prima di installare l'antenna verificare che la scatola del SLIMSAT contenga tutti gli elementi citati nel "Contenuto della confezione". Nell'eventualità di parti mancanti, contattare il rivenditore.

3.1 Passo 1: Dove installarla

Per ricevere il segnale dal satellite, il SLIMSAT va installato in uno spazio aperto (fuori casa/ appartamento) nella direzione del satellite, verso l'equatore (direzione SUD). Sarà necessaria la bussola per orientare esattamente il SLIMSAT nella giusta direzione (Nota: far riferimento alla tavola degli angoli di Azimut nell'ultima pagina del presente manuale).



Nota

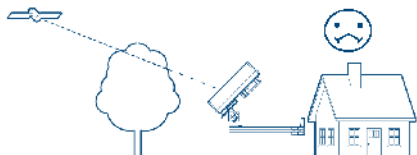
per garantire un'accurata lettura della bussola, tenersi lontani da grandi oggetti di metallo, nello specifico cavi elettrici, ed effettuare letture a più riprese.



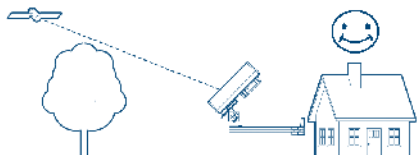
Verificare che non vi siano ostacoli davanti al SLIMSAT che possano diminuire la qualità della ricezione del segnale quali: costruzioni, alberi o altro (ricordarsi che gli alberi normalmente crescono e possono bloccare il segnale). Per poter fissare e installare facilmente l'antenna si deve scegliere un'ubicazione accessibile e priva di potenziali pericoli per l'installazione.

È necessario riflettere a come far passare il cavo in modo discreto dal SLIMSAT fino al ricevitore. L'antenna non va messa troppo distante dal ricevitore satellitare; un cavo lungo più di 30 m. diminuisce la qualità del segnale.

Cattiva qualità del segnale



Buona qualità del segnale



3.2 Passo 2: Installazione

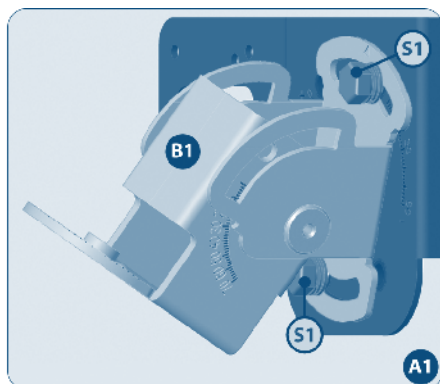
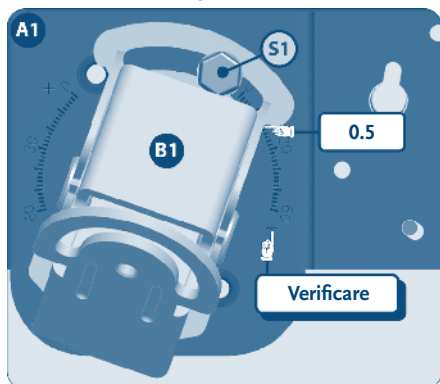
Per installare l'antenna dovete innanzitutto procurarvi lo skew, l'elevazione e l'azimuth corrispondenti alla vostra posizione geografica e al satellite che volete ricevere. Li troverete nella tabella alla fine di questo manuale. If you can't find your location, please refer to the information of the place nearest to your location. Facciamo l'esempio di voler ricevere il satellite Hot Bird a 13 gradi Est nella città di Ancona: dobbiamo utilizzare i seguenti parametri

Ancona	Skew:	0,5°
	El:	39,8°
	Az:	180,7°

Assemblaggio

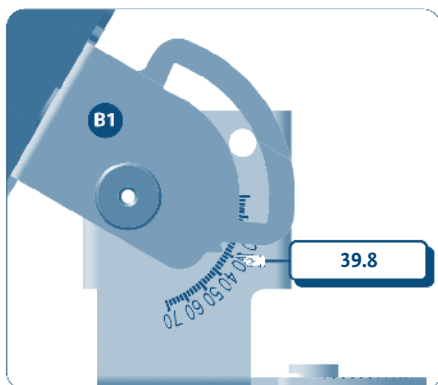
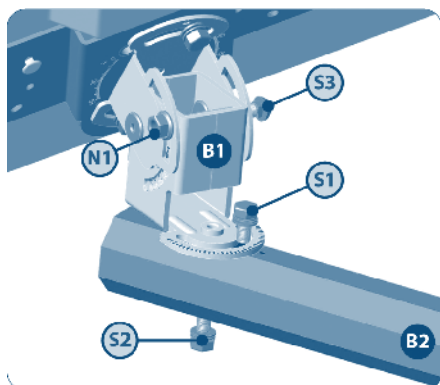
1. Impostazione dello Skew (Fissaggio della staffa angolare e del corpo antenna)

Unire la staffa angolare B1 e il del corpo antenna A1 con la vite in dotazione e impostare l'angolo di skew a 0,5 come da figura.



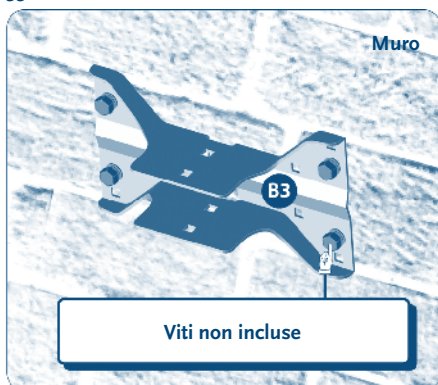
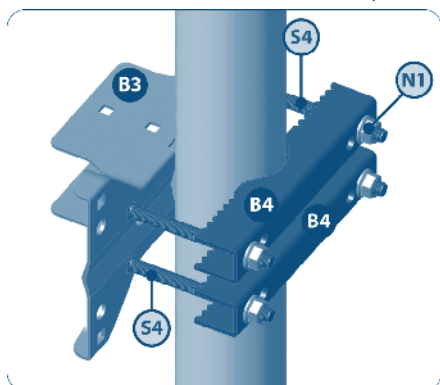
2. Impostazione dell'elevazione (Fissaggio del corpo antenna A1+B1 al braccio B2)

Al fine di regolare con precisione l'angolo di elevazione e di azimuth non serrate troppo forte il dado e la vite.



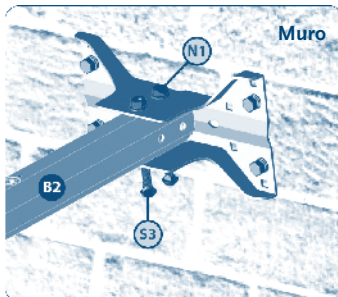
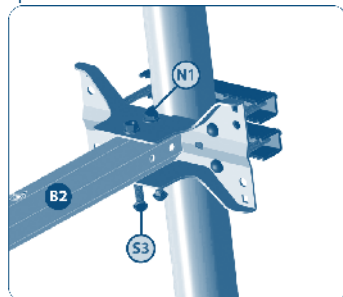
3. Installazione del Supporto B3

Prima di fissare il supporto B3, verificate con attenzione il luogo e il tipo di installazione (a palo, a muro). Assicuratevi che il supporto sia diretto verso il satellite (Sud). Per sostenere il peso dell'antenna la vite N1 dovrà essere serrata molto forte. Le viti per il fissaggio a muro non sono incluse.



4. Fissaggio del corpo antenna A1+B1+B2 al supporto B3

Fissate il corpo antenna al supporto B3. La vite N1 dovrà essere serrata il più possibile per sostenere il peso dell'antenna.



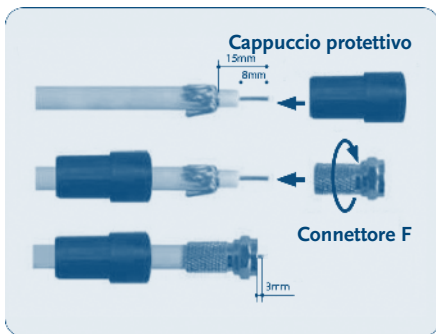
3.3 Passo 3: Collegamento dell'antenna e del ricevitore

Dopo aver installato l'antenna in uno spazio aperto e averla montata nella maniera prescelta, procedere ad effettuare tutti i collegamenti..

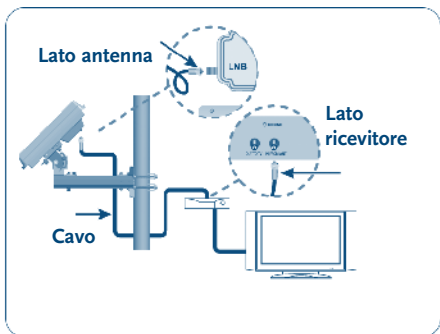
Per poter vedere i propri programmi preferiti, collegare l'antenna satellitare al ricevitore tramite cavo. Il cavo tra l'antenna e il ricevitore satellitare non deve superare i 30m, pena la diminuzione della qualità del segnale.

Un cavo troppo lungo o di cattiva qualità e dei jack non isolati possono comportare una perdita del livello del segnale; è preferibile utilizzare un cavo coassiale RG6 (cavo HF 17VATC o 19VATC) per ridurre al minimo la perdita di segnale.

Come preparare il cavo



Come collegare il cavo all'antenna e al ricevitore?



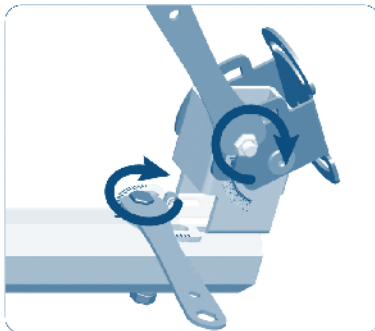
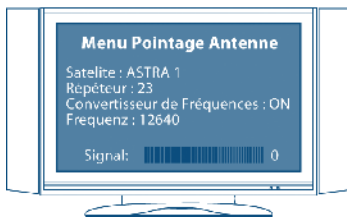
È importante che il cavo coassiale non venga danneggiato o piegato durante le procedure di installazione.

3.4 Passo 4: Sintonia fine e fissaggio del supporto

Dopo aver effettuato tutti i collegamenti accendete la televisione e il ricevitore.

Selezionate nel menu del ricevitore sotto la voce Installazione il sottomenu Puntamento Antenna e verificate il livello del segnale (Verificate con il manuale del ricevitore). Non dimenticatevi di selezionare la voce "LNB: ON".

Spostate lentamente l'antenna finché il livello del segnale non diventa buono o ottimo. Il livello della barra indica la potenza del segnale ricevuto mentre il colore indica la qualità del segnale. Una volta terminata la sintonia fine serrate bene tutti i dadi e le viti.



4.0 INDIVIDUAZIONE ED ELIMINAZIONE DI PROBLEMI ALLA PRIMA INSTALLAZIONE

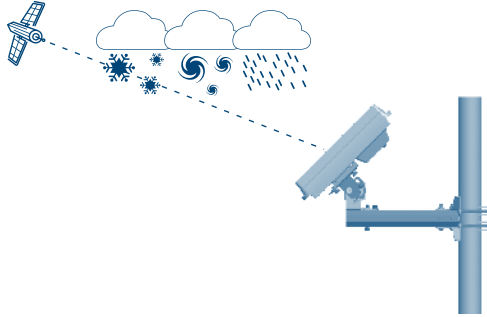
Se il segnale non viene trovato e i manuali utente antenna e utente ricevitore sono stati seguiti correttamente, effettuare i seguenti controlli:

- Verificare che tutte le connessioni dei cavi siano corrette e che ogni connessione sia correttamente alloggiata/fissata.
- Ispezionare l'interno di ogni connettore di cavo per spolverarlo o controllare che non vi siano possibili corti circuiti tra l'interno del connettore e la copertura
- Verificare angoli di Azimut, Elevazione e Inclinazione in base al proprio CAP.
- Verificare che i puntatori di Inclinazione e Elevazione siano correttamente allineati alle scale. Non utilizzare rondelle o dadi come riferimento.
- Verificare che la regolazione di Inclinazione non sia cambiata rispetto all'impostazione raccomandata per la posizione dell'antenna.
- Rimuovere i componenti specifici preesistenti della TV, come splitter ecc. Lasciare solo i collegamenti base descritti in questa guida. Tali componenti possono non funzionare con il segnale satellitare e possono essere invisibili poiché a muro. In caso di dubbio, far passare il cavo RG 6 direttamente al ricevitore.
- Verificare l'assenza di ostacoli (alberi, costruzioni, finestre, angoli o sporgenze del tetto, il proprio corpo o mani) – il segnale non oltrepassa foglie, rami, vetro ecc.
- Il cavo RG6 con conduttore centrale solido in rame è raccomandato perché ha una più bassa caduta di tensione DC rispetto ai cavi RG 6 con conduttore in acciaio rivestito in rame.
- Il cavo RG 59 standard causa eccessiva caduta di tensione DC e perdita di segnale; non può essere utilizzato per il segnale satellitare. Va utilizzato un cavo coassiale RG 6.
- Alcuni componenti di ricambio e accessori esistenti in commercio potrebbero avere caratteristiche diverse da quelle pubblicizzate. Potrebbero non funzionare o causare ulteriori cadute di tensione e attenuazioni dell'ampiezza del segnale. Eliminare tali componenti, limitarsi alle connessioni base specificate nel manuale e riverificare.
- Verificare che il cavo satellitare sia connesso alla presa "Sat-In" e non alla presa "Antenna-In". La presa "Antenna In" sul retro del ricevitore è per l'ingresso antenna terrestre o TV via cavo.
- Se tutto è stato eseguito correttamente, ma il segnale è ancora assente, cambiare leggermente la regolazione di elevazione dell'antenna ($\pm 2^\circ$, poi $\pm 4^\circ$ rispetto a quanto richiesto per l'impostazione) e ripetere la procedura.
- Verificare che la scheda di accesso del ricevitore sia completamente inserita nell'apposito slot e correttamente orientata.

5.0 PERDITA DI SEGNALE / ATTENUAZIONE DA PIOGGIA

- Il segnale satellitare può essere temporaneamente assente a causa di pioggia particolarmente violenta. Un ottimale allineamento dell'antenna, associato a un cavo il più corto possibile, minimizza l'attenuazione da pioggia.
- Verificare che l'antenna sia montata stabilmente per evitare che possa perdere l'allineamento in caso di vento forte.

- Un'importante caduta di neve che si accumula sull'antenna può ridurre la potenza del segnale; va eliminata al più presto.
- *La crescita di fogliame sulla linea di veduta dell'antenna può generare una graduale perdita dell'immagine.



6.0 INSTALLAZIONE CON CAVO LUNGO

Per installazioni in cui il cavo RG 6 che va da(i) ricevitore(i) all'LNB eccede i 30 metri (45 metri o più), come per esempio in edifici commerciali o con più abitazioni, è necessario utilizzare una unità di amplificazione di potenza (power booster) di corrente AC per polarizzare l'LNB.



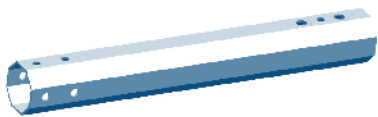
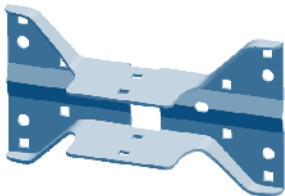


Sarà inoltre necessario un amplificatore di segnale RF per compensare la perdita di ampiezza del segnale. In caso contrario l'antenna e il ricevitore potrebbero non funzionare correttamente ed essere soggetti a frequenti interruzioni in caso di mal tempo. Per queste installazioni contattare un professionista.


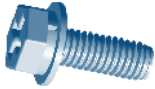
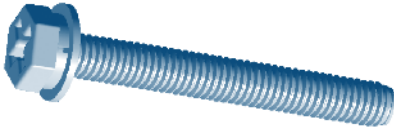
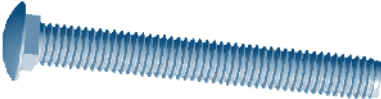
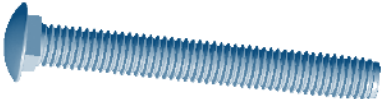

7.0 CARATTERISTICHE TECNICHE

Frequenze satellite d'ingresso:	10.7 – 12.75 GHz
Polarizzazione:	Doppia Lineare (Orizzontale e Verticale)
Guadagno dell'antenna:	33.7 dBi at 12.7 GHz
Dimensioni (L x A x P):	51.7 x 27.7 x 8.2 cm
LNB:	Modello SA61: LNB Singolo integrato Modello SA62: LNB Twin integrato Modello SA64: LNB Quad integrato
Frequenza d'uscita LNB:	950 – 1,950 / 1,100 – 2,150 MHz
Tensione LNB:	Verticale 9 ~ 14.5 V (tip. 13 V) Orizzontale 15.5 ~ 24 V (tip. 18 V)
Temperature di funzionamento:	-30 ~ +60 °C
Peso lordo:	4.5 kg
Peso netto:	2.7 kg

Come conseguenza della continua ricerca e sviluppi tecnologici le caratteristiche tecniche e il design dei prodotti possono cambiare.
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A.1 BOX CONTENT

N.	Simbolo	Nome parte	Immagine	Quantità
1	A1	Antenna		1
2	B1	Staffa angolare		1
3	B2	Supporto principale		1
4	B3	Staffa fissaggio A		1
5	B4	Staffa fissaggio B		2
6	B5	Chiave		1

N.	Simbolo	Nome parte	Immagine	Quantità
7	C1	Bussola		1
8	S1	Vite M6x18 SEMS2		3
9	S2	Vite M6x50 SEMS2		1
10	S3	Bull. Testa tonda Collo quadro M6x50		3
11	S4	Bull. Testa tonda Collo quadro M6x75		4
12	N1	Dado flangiato M6		7

A.2 APPENDIX

Great Britain

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk = Skew

		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/2C	Hot bird 2/B/7A /B	Atlant lbrld	Hispa sat		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/2C	Hot bird 2/B/7A /B	Atlant lbrld	Hispa sat	
		IC,2A	Euro bird 1		3	3	IC,1D		IC,2A	Euro bird 1		3	3	IC,1D	
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W	
Aberdeen wL 2.1 B+57.1	Az	130.9	145.2	155.1	162.2	183.5	212.2	Iverness wL 4.2 B+57.5	Az	129.0	143.0	152.8	159.8	180.9	209.8
	El	14.6	19.8	22.4	23.7	25.0	20.6		El	13.4	18.8	21.5	22.9	24.6	20.8
	Sk	-24.2	-18.1	-13.2	-9.6	1.9	16.8		Sk	-24.7	-18.9	-14.2	-10.7	0.5	15.5
Delfist wL 5.9 B+54.6	Az	126.3	140.2	150.1	157.2	178.9	208.7	Kingston upon hull wL 0.33 B+53.75	Az	131.5	146.0	156.3	163.6	185.8	215.2
	El	14.4	20.5	23.7	25.4	27.7	24.0		El	17.6	23.4	26.1	27.4	28.5	22.9
	Sk	-27.8	-21.7	-16.8	-13.0	-0.6	16.2		Sk	-26.3	-19.3	-13.8	-9.5	3.4	20.0
Birmingham wL 1.8 B+52.5	Az	129.6	143.9	154.1	161.5	184.0	214.0	Leeds wL 1.6 B+53.8	Az	130.3	144.7	154.8	162.1	184.2	213.8
	El	17.8	23.9	26.9	28.4	29.9	24.8		El	17.0	22.8	25.7	27.1	28.5	23.3
	Sk	-28.0	-21.0	-15.4	-11.1	2.5	19.9		Sk	-26.8	-20.0	-14.6	-10.5	2.5	19.2
Bradford wL 1.9 B+53.8	Az	130.1	144.5	154.6	161.9	184.0	213.7	Liverpool wL 2.9 B+53.4	Az	128.8	143.1	153.2	160.4	182.6	212.5
	El	16.9	22.8	25.7	27.1	28.5	23.4		El	16.6	22.7	25.7	27.3	29.0	24.1
	Sk	-26.9	-20.1	-14.7	-10.6	2.3	19.1		Sk	-27.7	-21.0	-15.6	-11.5	1.6	18.7
Bristol wL 2.6 B+51.5	Az	128.1	142.7	152.9	160.4	183.1	213.6	Leicester wL 1.08 B+52.63	Az	130.4	144.8	155.1	162.5	184.9	214.8
	El	18.1	24.5	27.7	29.3	31.1	25.8		El	18.1	24.1	27.0	28.4	29.7	24.2
	Sk	-29.2	-22.2	-16.5	-12.1	1.9	20.1		Sk	-27.6	-20.5	-14.8	-10.5	3.0	20.3
Cardiff wL 3.16 B+51.48	Az	127.9	142.1	152.3	159.7	182.4	212.9	London wL 0.2 B+51.5	Az	130.6	145.4	155.8	163.4	186.2	216.2
	El	17.8	24.3	27.5	29.2	31.1	25.9		El	19.3	25.4	28.3	29.8	30.9	24.8
	Sk	-29.4	-22.5	-16.9	-12.5	1.5	19.8		Sk	-28.1	-20.7	-14.8	-10.3	3.9	21.6
Chichester wL0.778 B+53.5	Az	130.0	144.5	154.9	162.4	185.4	213.8	Manchester wL 2.3 B+53.8	Az	129.5	143.8	154.0	161.3	183.4	213.2
	El	19.4	25.8	28.9	30.4	31.5	25.6		El	16.9	22.9	25.8	27.3	28.9	23.8
	Sk	-29.0	-21.5	-15.6	-11.0	3.4	21.7		Sk	-27.3	-20.6	-15.2	-11.1	2.0	19.0
Covey wL1.5 B+52.42	Az	129.9	144.3	154.5	161.9	184.4	214.4	Newcastle upon Tyne wL 1.6 B+55.0	Az	130.7	145.0	155.1	162.4	184.1	213.4
	El	18.0	21.1	27.0	28.6	30.0	24.5		El	16.2	21.8	24.5	25.9	27.2	22.3
	Sk	-27.9	-20.9	-15.2	-10.9	2.7	20.2		Sk	-25.8	-19.2	-14.0	-10.0	2.4	18.4
Dover eL 1.3 B+51.1	Az	132.1	146.9	157.5	165.1	188.1	218.0	Norwich eL 1.3 B+52.6	Az	132.7	147.4	157.9	165.4	187.9	217.4
	El	20.3	26.3	29.1	30.5	31.2	24.6		El	19.2	24.9	27.6	28.9	29.6	23.3
	Sk	-27.8	-20.1	-13.9	-9.3	5.1	22.7		Sk	-26.5	-19.1	-13.2	-8.8	4.8	21.7
Edinburgh wL 3.2 B+56.0	Az	129.4	143.6	153.6	160.7	182.2	211.4	Nottingham wL 1.3 B+52.9	Az	130.2	144.6	154.9	162.3	184.6	214.5
	El	14.8	20.4	23.2	24.6	26.2	21.9		El	17.8	23.7	26.6	28.1	29.5	24.0
	Sk	-25.6	-19.4	-14.4	-10.7	1.2	16.9		Sk	-27.4	-20.4	-14.8	-10.6	2.9	20.0
Glasgow wL 4.2 B+55.9	Az	128.1	142.5	152.4	159.5	180.9	210.2	Plymouth wL 4.2; B+50.4	Az	126.5	140.5	150.7	158.1	181.0	212.1
	El	14.4	20.1	23.0	24.5	26.4	22.3		El	17.9	24.7	28.2	30.0	32.3	27.8
	Sk	-26.0	-19.9	-15.1	-11.3	0.5	16.4		Sk	-30.8	-23.9	-18.2	-13.8	0.7	19.8
Greenwich eL0 B+51.48	Az	131.0	145.8	153.0	158.0	186.4	216.4	Portsmouth wL 1.1 B+50.8	Az	129.6	144.1	154.5	162.0	185.0	215.5
	El	19.4	25.5	28.4	28.4	30.9	24.7		El	19.3	25.6	28.7	30.3	31.7	25.8
	Sk	-28.0	-20.6	-14.7	-14.7	4.0	21.7		Sk	-29.1	-21.8	-15.8	-11.2	3.2	21.5
Swansea wL 4.0 B+51.6	Az	127.1	141.2	151.3	158.7	181.3	211.9	Stretfield wL 1.5 B+53.4	Az	130.2	144.8	154.8	162.1	184.4	214.1
	El	17.3	23.8	27.1	28.8	31.0	26.1		El	17.3	23.2	26.1	27.6	28.9	23.7
	Sk	-29.7	-22.9	-17.3	-13.1	0.8	19.2		Sk	-27.1	-20.2	-14.7	-10.5	2.6	19.5
Wolverhampton wL 2.2 B+52.6	Az	129.2	143.6	153.7	161.1	183.5	213.6	Southampton wL1.38 B+50.9	Az	129.4	143.8	154.2	161.7	184.7	215.1
	El	17.5	23.6	26.7	28.2	29.8	24.6		El	19.1	25.5	28.6	30.1	31.6	25.8
	Sk	-28.1	-21.2	-15.6	-11.3	2.1	19.6		Sk	-28.2	-21.9	-15.9	-11.4	2.9	21.3
York wL1.08 B+53.95	Az	130.9	145.3	155.4	162.6	184.8	214.4								
	El	17.2	22.9	25.7	27.1	28.3	23.0								
	Sk	-26.4	-19.6	-14.2	-10.0	2.9	19.4								

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>

Germany

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth EI=Elevation Sk = Skew

	Turk sat	Astra 2A/2B /2D		Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Alliant lbird	Hispa sat		Turk sat	Astra 2A/2B /2D		Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Alliant lbird	Hispa sat
		IC,2A	Euro bird 1	19.2	13.0	6.0	3.0			IC,2A	Euro bird 1	19.2	13.0	6.0	3.0
		42.0	28.2	19.2	13.0	6.0	3.0			42.0	28.2	19.2	13.0	6.0	3.0
		E	E	E	E	W	W			E	E	E	E	W	W
Aachen eL 6.1 B + 50.8	Az	136.9	152.3	163.3	171.1	194.2	223.2	Frankfurt am Main eL 8.7 B + 50.1	Az	136.4	155.2	166.4	174.4	197.6	228.2
	Sk	-25.6	-17.1	-10.5	-5.6	8.9	25.7		Az	24.5	29.6	31.7	32.4	31.1	22.0
Aalen eL 10.1 B + 48.8	Az	140.4	156.5	168.0	176.2	199.7	226.2	Freising eL 11.8 B + 48.4	Az	142.1	158.5	170.1	178.3	201.9	230.0
	Sk	-24.8	-15.2	-7.9	-2.5	12.9	29.4		EI	27.3	32.2	34.0	34.4	32.1	21.6
Aschaffenburg eL 9.2 B + 50.0	Az	139.9	155.7	167.0	175.0	198.2	226.8	Göttingen eL 9.9 B + 51.5	Az	141.3	157.1	168.2	176.1	198.8	226.9
	FI	24.8	29.9	31.9	32.6	31.0	21.9		FI	23.9	28.6	30.4	31.0	29.4	20.4
Augsburg eL 10.9 B + 48.4	Sk	-24.4	-15.3	-8.9	-3.2	11.7	27.9	Hannburg eL 10.0 B + 53.6	Sk	-22.9	-14.0	-7.3	-2.5	11.6	27.0
	Az	141.1	157.4	169.0	177.2	200.9	229.2		Az	142.2	157.8	168.7	178.3	198.5	226.2
Bad Hersfeld eL 9.7 B + 50.9	EI	26.9	32.0	33.9	34.4	32.4	22.1	Heide eL 9.1 B + 54.2	EI	22.2	26.6	28.3	28.8	27.3	18.8
	Sk	-24.6	-14.8	-7.3	-1.9	13.7	30.2		Sk	-21.3	-13.0	-6.7	-2.2	10.8	25.4
Bad Homburg eL 8.6 B + 50.2	Az	140.8	156.7	167.8	175.8	198.7	227.0	Heidelberg eL 8.7 B + 49.4	Az	141.4	156.9	167.3	175.2	197.2	225.1
	EI	24.3	29.2	31.1	31.7	30.1	20.9		EI	21.3	25.7	27.5	28.0	26.8	18.8
Bad Neuenahr eL 7.1 B + 50.6	Sk	-23.5	-14.5	-7.6	-2.7	11.7	27.4	Ho eL 11.9 B + 50.3	Sk	-21.4	-13.3	-7.2	-2.8	10.0	24.5
	Az	139.4	155.2	166.3	174.3	197.5	226.1		Az	139.1	155.0	166.3	174.3	197.8	226.5
Baden-Baden eL 8.2 B + 48.8	EI	24.4	29.5	31.6	32.3	31.0	21.9	Köln eL 7.0 B + 51.0	EI	25.1	30.3	32.5	33.2	31.9	22.5
	Sk	-24.6	-15.6	-8.7	-3.7	11.1	27.5		Sk	-25.2	-16.0	-8.9	-3.7	11.5	28.2
Bamberg eL 10.9 B + 49.9	Az	137.9	153.5	164.5	172.4	195.5	224.4	Lilbeck eL 10.7 B + 53.9	Az	143.0	159.2	170.5	178.6	201.6	229.4
	EI	23.5	28.8	31.0	31.8	31.0	22.4		EI	25.7	30.3	31.9	32.3	30.2	20.2
Bergheim eL 13.4 B + 54.4	Sk	-25.2	-16.5	-9.8	-4.8	9.8	26.4	München eL 11.6 B + 48.1	Sk	-22.6	-13.1	-6.0	-0.9	13.8	29.0
	Az	138.4	154.2	165.6	173.7	197.4	226.3		Az	137.9	153.4	164.4	172.2	195.2	224.1
Berlin eL 13.4 B + 52.5	EI	25.4	30.8	33.1	33.9	32.6	23.2	Münster eL 8.9 B + 49.9	EI	23.1	28.3	30.5	31.4	30.6	22.2
	Sk	-26.0	-16.7	-9.5	-4.2	11.3	28.4		Sk	-24.9	-16.3	-9.7	-1.8	9.6	26.6
Bielefeld eL 10.9 B + 49.9	Az	141.7	157.8	169.2	177.2	200.4	228.5	Nienburg eL 11.8 B + 51.8	Az	143.0	158.7	169.5	177.1	199.2	228.0
	EI	25.6	30.5	32.3	32.8	30.8	21.0		EI	22.2	26.4	28.0	28.5	26.8	18.3
Bonn eL 7.1 B + 50.7	Sk	-23.5	-14.1	-6.9	-1.8	13.0	29.9	Offenburg eL 8.0 B + 48.5	Sk	-20.8	-12.4	-6.2	-1.7	11.2	25.4
	Az	146.2	162.0	172.9	180.5	202.3	229.3		Az	141.7	158.1	169.8	178.1	201.8	230.0
Bremen eL 8.6 B + 53.1	EI	22.7	26.5	27.7	27.9	25.7	16.7	Passau eL 13.5 B + 48.6	EI	27.4	32.4	34.2	34.7	32.4	21.9
	Sk	-18.9	-10.4	-4.1	0.3	12.7	26.2		Sk	-24.4	-14.4	-6.8	-1.3	14.4	30.8
Chemnitz eL 12.9 B + 50.8	Az	145.5	161.6	172.7	180.5	202.8	230.0	Regensburg eL 12.1 B + 54.1	Az	139.5	155.4	166.6	174.6	197.9	226.5
	EI	24.4	28.4	29.7	30.0	27.6	18.0		EI	24.7	29.9	31.9	32.6	31.3	22.0
Darmstadt eL 9.3 B + 48.1	Sk	-20.2	-11.1	-4.4	0.3	13.6	27.8	Traunstein eL 12.7 B + 47.9	Sk	-24.7	-15.6	-6.6	-3.5	11.4	27.9
	Az	139.2	155.3	166.8	175.0	198.9	227.7		Az	143.5	159.4	170.6	178.4	201.0	228.6
Düsseldorf eL 6.8 B + 51.2	EI	26.4	31.8	33.9	34.6	33.0	23.1	Ulm eL 10.0 B + 48.4	EI	24.4	28.7	30.3	30.7	28.7	19.2
	Sk	-25.9	-16.2	-8.8	-3.3	12.5	29.6		Sk	-21.6	-12.5	-5.8	-0.9	12.8	27.7
Erfurt eL 7.1 B + 50.7	Az	138.0	153.5	164.5	172.4	195.5	224.3	Weilheim eL 8.0 B + 48.5	Az	137.9	153.8	165.1	173.3	197.1	226.2
	EI	23.3	28.6	30.8	31.6	30.8	22.3		EI	25.5	31.0	33.3	34.2	33.0	23.6
Essen eL 8.6 B + 53.1	Sk	-25.1	-16.4	-9.7	-4.8	9.7	26.3	Wiesbaden eL 8.0 B + 48.5	Sk	-28.3	-17.0	-9.8	-4.4	11.3	28.6
	Az	140.7	156.2	167.1	174.8	197.1	225.2		Az	144.1	160.7	172.4	180.6	204.0	231.7
Frankfurt eL 13.0 B + 48.8	EI	22.1	26.8	28.6	29.2	26.0	19.7	Wuppertal eL 8.6 B + 51.7	EI	27.9	32.5	34.0	34.3	31.5	20.6
	Sk	-22.4	-14.0	-7.7	-3.2	10.2	25.2		Sk	-22.8	-12.6	-5.0	0.4	15.6	31.3
Gießen eL 12.9 B + 50.8	Az	144.3	160.6	171.9	179.9	202.6	230.2	Zürich eL 12.1 B + 54.1	Az	144.7	160.4	171.3	178.9	200.8	228.2
	EI	25.7	30.0	31.5	31.8	29.4	19.4		EI	22.6	28.5	27.9	28.3	26.3	17.5
Hamburg eL 10.0 B + 53.6	Sk	-21.6	-12.2	-5.1	-0.1	14.1	29.0	Zwickau eL 12.7 B + 47.9	Sk	-19.8	-11.4	-5.1	-0.7	12.0	25.9
	Az	143.6	160.1	171.7	180.0	203.3	231.1		Az	142.8	159.4	171.2	179.5	203.2	231.7
Hannover eL 9.1 B + 54.2	EI	27.4	32.1	33.7	34.0	31.4	20.7	Zwickau eL 12.7 B + 47.9	EI	28.1	33.0	34.7	35.0	32.4	21.5
	Sk	-23.0	-12.9	-5.4	0.0	15.1	30.8		Sk	-23.9	-13.6	-5.8	-0.3	15.4	31.5
Heidelberg eL 8.7 B + 49.4	Az	138.7	154.2	165.1	172.9	195.8	224.4	Zwickau eL 12.7 B + 47.9	Az	140.1	156.2	167.8	176.0	198.7	228.3
	EI	22.8	27.9	30.0	30.8	29.9	21.5		EI	26.5	31.7	33.7	34.4	32.6	22.6
Hof eL 11.9 B + 50.3	Sk	-24.3	-15.7	-9.2	-4.4	9.8	25.8	Zwickau eL 12.7 B + 47.9	Sk	-25.2	-15.5	-8.1	-2.7	12.9	29.7
	Az	137.8	153.3	164.2	172.0	195.0	223.8		Az	137.8	153.2	164.1	171.9	194.7	223.5
Köln eL 7.0 B + 51.0	EI	22.8	28.0	30.2	31.1	30.3	22.1	Zwickau eL 12.7 B + 47.9	EI	22.3	27.5	29.7	30.6	29.9	21.8
	Sk	-24.9	-16.4	-9.8	-5.0	9.3	25.7		Sk	-24.6	-16.2	-8.8	-5.0	9.0	25.2

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>

France

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth EI=Elevation Sk = Skew

		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/2C	Hot bird 2/5/7A /8	Atlant icbird 3	Hispasat 1C,1D		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/2C	Hot bird 2/5/7A /8	Atlant icbird 3	Hispasat 1C,1D	
		1C,2A	Euro bird 1	Euro bird 1	E	13.0 E	5.0 W		30.0 W	42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Amiens eL 2.3 B + 49.9	Az	132.8	147.8	158.3	186.1	189.5	219.5	Mulhouse eL 7.3 B + 47.7	Az	136.9	152.7	184.1	172.4	199.5	225.9
	Sk	-28.3	-20.2	-13.8	-8.9	6.1	24.2		Sk	-27.4	-18.0	-10.6	-5.1	11.0	28.9
Angers wL 0.6 B + 47.5	Az	128.7	143.3	154.0	161.9	188.0	217.4	Nancy el 6 P; R + 48.7	Az	136.2	151.7	182.9	171.0	194.8	224.3
	Sk	-31.8	-23.8	-17.2	-12.1	4.0	24.2		Sk	-27.2	-18.2	-11.2	-5.9	9.7	27.4
Anjouleins eL 0.2 B + 45.7	Az	128.6	143.3	154.3	162.3	187.2	219.1	Nantes wL 1.6 B + 47.2	Az	127.6	142.1	162.7	160.5	184.6	216.4
	Sk	-33.1	-24.7	-17.7	-12.3	5.1	26.2		Sk	-32.5	-24.7	-18.2	-13.1	3.1	23.8
Arras eL 2.8 B + 50.3	Az	133.3	148.3	159.0	166.8	190.1	219.9	Nizza wL 7.3 R + 43.7	Az	135.0	151.0	163.0	171.7	197.5	227.8
	Sk	-27.7	-19.6	-13.2	-8.4	6.4	24.2		Sk	-30.8	-20.5	-12.2	-6.0	12.6	32.4
Bayonne eL 1.5 B + 43.3	Az	128.8	143.7	155.1	163.5	189.4	221.8	Orleans eL 1.9 B + 47.9	Az	131.4	146.3	157.2	165.1	189.2	220.0
	Sk	-34.6	-25.5	-17.9	-12.0	6.9	29.0		Sk	-30.2	-21.8	-15.1	-9.9	6.2	25.5
Belfort eL 6.8 B + 47.8	Az	136.4	152.1	163.5	171.7	195.8	225.4	Paris eL 2.3 B + 48.9	Az	132.2	147.2	158.1	166.0	189.7	220.0
	Sk	-27.7	-18.4	-11.1	-5.8	10.6	28.7		Sk	-29.2	-20.9	-14.2	-9.2	6.3	25.0
Bordeaux wL 0.6 B + 44.8	Az	127.5	142.1	153.0	161.1	186.3	218.7	Quimper wL 4.2; B + 48.0	Az	125.5	139.6	149.9	157.4	181.1	213.1
	Sk	-34.2	-25.9	-18.8	-13.6	3.3	26.3		Sk	-39.0	-25.7	-19.6	-14.9	0.7	21.4
Boulogne wL 1.6 B + 50.7	Az	132.3	147.1	157.7	165.4	184.4	214.9	Reims eL 4.0 B + 49.3	Az	134.1	149.3	160.3	168.2	191.8	221.7
	Sk	-27.9	-20.1	-13.9	-9.2	2.8	21.3		Sk	-27.9	-18.4	-12.7	-7.7	7.7	25.7
Brest wL 4.5 B + 48.1	Az	125.3	139.3	149.6	157.1	180.6	212.5	Rennes wL 1.7 B + 48.1	Az	127.9	142.3	152.9	160.6	184.5	215.9
	Sk	-32.8	-25.6	-19.7	-15.0	0.4	20.9		Sk	-31.8	-24.1	-17.7	-12.8	3.0	23.0
Caen wL 0.4 B + 49.2	Az	129.7	144.3	154.8	162.6	186.1	216.9	Rouen eL 1.1 B + 49.5	Az	131.2	146.0	156.7	164.5	188.0	218.4
	Sk	-30.2	-22.5	-16.1	-11.3	4.0	29.1		Sk	-29.3	-21.3	-14.9	-10.0	5.2	23.8
Calais eL 1.9 B + 51.0	Az	132.7	147.3	158.2	165.9	188.9	218.7	St-Etienne eL 4.4 B + 45.4	Az	132.8	148.2	159.6	168.0	192.1	223.8
	Sk	-27.6	-19.8	-13.5	-8.9	5.6	23.2		Sk	-31.0	-21.7	-14.1	-8.4	9.2	29.1
Chalon-sur-Marne eL 4.3 B + 49.0	Az	134.3	149.8	160.6	168.6	192.3	222.2	St-Nazaire wL 2.2 B + 47.3	Az	127.1	141.4	151.9	159.7	183.8	215.7
	Sk	-29.0	-19.4	-12.6	-7.5	8.0	26.1		Sk	-21.0	-28.2	31.8	33.7	35.6	29.3
Charleville-Mazieres eL 4.7 B + 49.7	Az	135.0	150.3	161.2	169.1	192.6	222.2	St-Quentin eL 3.3 B + 49.8	Az	133.6	148.7	159.5	167.3	190.8	220.6
	Sk	-27.2	-18.7	-12.0	-7.0	8.1	25.8		Sk	-22.2	28.1	30.9	32.1	32.3	24.8
Clermont-Ferrand eL 3.1 B + 45.8	Az	131.6	146.8	158.0	166.3	191.2	222.3	Strasbourg eL 7.8 B + 48.6	Az	137.8	153.6	164.9	173.0	195.8	225.9
	Sk	-31.5	-22.5	-15.1	-9.5	7.8	28.0		Sk	-25.3	-17.1	-9.9	-4.6	11.1	23.6
Colmar wL 7.3 B + 48.1	Az	137.1	152.9	164.2	172.4	196.4	225.7	Toulouse eL 1.5 B + 43.6	Az	128.9	143.8	155.1	163.5	189.3	221.6
	Sk	-27.1	-17.7	-10.5	-5.1	10.8	28.5		Sk	-34.3	-25.3	-17.8	-11.9	6.8	28.8
Epinal eL 6.5 B + 48.2	Az	136.2	151.8	163.1	171.2	195.2	224.7	Tours eL 0.7 B + 47.4	Az	129.9	144.7	155.5	163.4	187.7	218.9
	Sk	-27.5	-18.1	-11.2	-5.8	10.1	28.0		Sk	-31.3	-13.0	-16.3	-11.1	5.2	25.2
Le Havre eL 0.1 B + 49.5	Az	130.3	144.9	155.5	163.2	186.7	217.3	Verdun eL 5.4 B + 49.2	Az	135.5	150.9	162.0	170.0	193.6	223.2
	Sk	-29.7	-21.9	-15.6	-10.6	4.3	23.2		Sk	-23.7	-18.5	-11.7	-6.5	8.9	26.6
Limoges eL 1.3 B + 45.8	Az	129.8	144.7	155.7	163.8	188.7	220.2	Marseille eL 5.4 B + 43.3	Az	132.7	148.5	160.3	168.9	194.9	226.0
	Sk	-32.4	-23.8	-16.7	-11.2	6.1	26.8		Sk	-32.3	-22.4	-14.2	-8.0	10.8	31.6
Lorient wL 3.4 B + 47.8	Az	126.1	140.3	150.7	158.3	182.2	214.1	Metz eL 6.2 B + 49.1	Az	136.3	151.8	163.0	171.0	194.6	224.0
	Sk	-32.9	-25.4	-19.2	-14.4	1.5	22.1		Sk	-26.9	-18.0	-11.0	-5.9	9.6	27.1
Lyon eL 4.8 B + 45.8	Az	133.4	148.9	160.4	168.7	193.6	224.2	Montpellier eL 3.9 B + 43.6	Az	131.3	146.8	158.3	166.9	192.8	224.2
	Sk	-30.5	-21.1	-13.6	-7.9	9.4	29.0		Sk	-33.0	-23.4	-15.5	-9.5	8.2	30.4

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>

Italy

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk : Skew

	Turk sat	Astra 2A/2B/2D Euro bird 1	Astra 15-1H /1KR/ 2C	Hot bird 2/67A /8	Allianc cbird	Hispasat 3 0		Turk sat	Astra 2A/2B/2D Euro bird 1	Astra 15-1H /1KR/ 2C	Hot bird 2/67A /8	Allianc icbird	Hispasat 3 0
	1C,2A	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W		1C,2A	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Ancona eL 13.5 B + 43.6	Az 141.8 El 32.2 Sk -21.6	159.2 37.6 -14.9	171.8 39.4 -6.0	180.7 39.8 0.5	205.9 36.4 16.4	234.0 23.7 35.9	La Spezia eL 9.8 B + 44.1	Az 137.9 El 29.9 Sk -28.8	154.5 35.9 -18.0	166.7 38.3 -9.5	175.5 39.0 -3.3	200.8 37.0 14.8	230.1 25.1 33.5
Arezzo eL 11.8 B + 43.5	Az 139.8 El 31.5 Sk -27.9	156.9 37.2 -16.6	169.4 39.3 -7.7	178.3 38.9 -1.2	203.7 37.1 16.9	232.5 24.9 35.1	Lecco eL 18.2 B + 40.3	Az 145.7 El 37.3 Sk -25.5	164.7 42.2 -11.6	178.4 43.4 -1.2	189.0 43.1 6.1	213.5 37.6 24.9	239.9 22.5 41.3
Asciano eL 11.5 B + 43.2	Az 139.3 El 31.5 Sk -28.4	156.4 37.4 -17.0	168.9 39.5 -8.1	177.9 40.1 -1.6	203.4 37.4 16.8	232.3 25.2 35.2	Livorno eL 10.3 B + 43.5	Az 138.1 El 30.6 Sk -29.0	154.9 36.7 -18.0	167.2 39.1 -9.3	175.1 39.8 -2.8	201.7 37.5 15.5	230.9 25.8 34.3
Ascoli Piceno eL 13.6 B + 42.9	Az 141.5 El 32.9 Sk -27.1	159.0 38.4 -15.2	171.7 40.2 -6.0	180.8 40.6 0.6	206.3 37.1 18.9	234.4 24.2 36.6	Milano eL 9.2 B + 45.5	Az 137.9 El 28.5 Sk -28.0	154.2 34.4 -17.8	166.1 36.8 -9.7	174.7 37.5 -2.8	199.5 35.8 13.6	228.8 25.1 31.8
Ascoli Satriano eL 15.5 B + 41.2	Az 142.9 El 36.3 Sk -27.0	161.2 40.7 -14.1	174.4 42.3 -4.2	183.0 42.3 2.9	209.6 38.0 21.8	237.1 20.9 39.2	Napoli eL 14.3 B + 40.8	Az 141.2 El 34.9 Sk -28.3	159.2 40.7 -15.6	172.5 42.6 -3.7	181.9 42.8 1.5	206.1 38.8 21.0	236.1 24.9 39.0
Bari eL 15.9 B + 41.1	Az 144.5 El 36.0 Sk -25.9	163.1 41.1 -12.7	176.5 42.4 -2.7	185.9 42.3 4.4	211.4 37.5 23.2	238.4 23.0 39.9	Padova eL 11.6 B + 45.3	Az 140.5 El 29.8 Sk -26.6	157.2 35.3 -15.8	169.4 37.3 -7.5	178.0 37.8 -1.4	202.8 35.3 15.8	231.3 23.8 33.6
Barletta eL 15.3 B + 41.3	Az 143.9 El 35.5 Sk -28.3	162.3 40.7 -13.2	175.6 42.2 -3.3	185.0 42.1 -1.7	210.5 37.5 22.5	237.7 23.3 39.5	Palermog eL 13.4 B + 38.1	Az 138.5 El 36.7 Sk -31.4	156.6 43.2 -18.1	170.6 45.4 -7.4	180.8 45.8 0.5	206.3 41.8 21.9	236.8 27.1 41.2
Bergamo eL 9.7 B + 45.7	Az 139.5 El 28.5 Sk -27.5	154.9 34.3 -17.2	166.8 36.5 -9.2	175.3 37.3 -3.2	200.1 35.4 13.9	229.2 24.6 31.9	Parma eL 10.3 B + 44.8	Az 138.8 El 29.6 Sk -27.9	155.4 35.4 -17.2	167.5 37.7 -3.8	173.2 38.3 -2.7	201.3 38.1 14.9	230.3 24.8 34.8
Bologna eL 11.3 B + 44.5	Az 139.8 El 30.4 Sk -27.5	156.6 36.0 -16.5	168.8 38.1 -7.9	177.6 38.7 -1.7	202.7 36.2 15.9	231.4 24.5 33.9	Pavia eL 9.2 B + 45.2	Az 137.7 El 28.7 Sk -28.3	154.1 34.7 -18.0	166.0 37.1 -9.8	174.6 37.9 -3.8	199.6 38.1 13.7	229.0 25.3 32.1
Bolzano eL 11.3 B + 46.5	Az 140.7 El 28.7 Sk -25.9	157.3 34.0 -15.4	169.2 36.0 -7.4	177.7 36.5 -1.6	202.0 34.2 14.9	230.5 23.1 32.1	Pesaro eL 12.9 B + 43.9	Az 141.2 El 31.6 Sk -26.8	158.5 37.1 -15.3	170.9 39.0 -6.5	179.8 39.4 -0.1	204.9 36.3 17.7	232.1 23.9 35.3
Brescia eL 10.3 B + 45.5	Az 139.1 El 29.0 Sk -27.3	155.6 34.7 -16.8	167.6 36.9 -8.6	176.2 37.6 -2.6	201.0 35.5 14.5	229.9 24.9 32.4	Pescara eL 14.2 B + 42.5	Az 142.0 El 33.5 Sk -27.0	158.8 39.0 -14.8	172.6 40.7 -5.4	181.8 41.0 1.3	207.3 37.2 19.7	235.2 24.0 37.3
Castelli eL 9.1 B + 39.3	Az 134.4 El 33.3 Sk -33.6	151.3 40.4 -31.8	164.3 43.4 -19.1	173.9 44.4 -4.7	201.7 42.3 16.6	232.1 29.6 37.4	Piacenza eL 9.6 B + 45.0	Az 138.1 El 29.1 Sk -28.2	154.6 35.0 -17.7	166.5 37.3 -9.5	175.2 38.1 -3.4	200.2 36.2 14.2	227.5 25.2 39.5
Campi eL 10.9 B + 44.8	Az 139.4 El 29.9 Sk -27.5	156.1 35.6 -15.8	169.3 37.8 -5.8	177.0 38.4 1.4	202.0 36.0 15.4	230.8 24.6 33.4	Pisa eL 10.4 B + 43.7	Az 138.3 El 30.5 Sk -28.7	155.1 36.5 -17.7	167.3 38.8 -9.1	175.2 39.5 -2.7	201.7 37.3 15.5	230.9 25.6 34.2
Carrara eL 10.1 B + 44.1	Az 138.2 El 30.1 Sk -28.6	154.9 36.1 -17.8	167.1 38.4 -9.3	175.9 39.1 -3.0	201.2 37.0 15.1	230.5 25.5 33.6	Roma eL 12.5 B + 41.9	Az 139.7 El 33.1 Sk -28.8	157.2 39.1 -16.8	170.0 41.2 -7.4	179.3 41.6 -0.6	205.3 38.4 18.5	233.9 25.5 37.0
Catania eL 15.1 B + 37.5	Az 140.2 El 36.2 Sk -30.5	159.0 44.4 -16.5	173.2 46.3 -5.4	183.4 46.5 2.7	211.0 41.7 24.1	238.7 26.3 42.7	Taranto eL 17.2 B + 40.5	Az 144.5 El 36.7 Sk -26.2	163.3 41.8 -12.6	176.9 43.1 -2.4	185.4 43.0 4.9	212.1 37.9 23.9	239.0 23.1 40.7
Catanzaro eL 16.6 B + 38.9	Az 142.9 El 37.8 Sk -28.0	161.9 43.4 -14.0	175.9 44.9 -3.2	185.8 44.8 4.5	212.3 39.7 24.5	239.3 24.4 42.0	Torino eL 7.7 B + 45.1	Az 136.0 El 28.0 Sk -29.3	152.1 34.2 -19.3	163.9 36.9 -11.3	172.5 37.8 -5.3	197.6 36.6 12.4	227.5 26.2 31.4
Cosaro eL 14.6 B + 37.8	Az 139.8 El 37.7 Sk -30.7	158.5 43.9 -16.8	172.6 45.9 -5.9	182.7 46.1 2.1	210.2 41.6 23.4	238.1 26.4 42.2	Trento eL 11.1 B + 46.1	Az 140.3 El 28.9 Sk -26.3	156.9 34.4 -15.8	168.9 36.4 -7.7	177.4 37.0 -1.8	201.9 34.6 14.9	230.5 23.5 32.3
Cesena eL 12.2 B + 44.2	Az 140.6 El 31.1 Sk -27.1	157.7 36.7 -15.8	170.0 38.6 -7.1	178.9 39.1 -0.8	204.0 36.3 16.9	232.5 24.2 34.6	Trieste eL 13.7 B + 45.6	Az 143.0 El 30.6 Sk -24.9	160.1 35.6 -13.8	172.3 37.2 -5.4	181.0 37.5 0.7	205.3 34.3 17.4	233.2 22.4 34.1
Cosenza eL 16.2 B + 38.3	Az 142.7 El 37.3 Sk -28.0	161.5 42.9 -14.2	175.3 44.4 -3.6	185.1 44.4 3.9	211.5 39.5 23.8	238.8 24.5 41.5	Venezia eL 12.3 B + 45.4	Az 141.4 El 30.1 Sk -26.0	158.2 35.4 -15.7	170.4 37.3 -6.7	179.1 37.7 -0.6	203.7 34.9 16.3	232.0 23.3 33.6
Ferrara eL 11.6 B + 44.8	Az 140.2 El 30.2 Sk -27.0	157.1 35.8 -16.1	169.3 37.8 -7.6	178.0 38.4 -1.4	202.9 35.8 16.1	231.6 24.1 33.8	Verona eL 11.0 B + 45.3	Az 139.8 El 29.5 Sk -27.0	156.5 35.1 -16.3	169.5 37.2 -8.0	177.2 37.8 -2.0	202.0 35.5 11.6	230.7 24.1 33.0
Firenze eL 11.3 B + 43.8	Az 139.3 El 30.9 Sk -28.0	156.2 36.7 -16.9	168.6 38.9 -8.2	177.5 39.5 -1.8	202.9 36.9 16.3	231.7 25.0 34.5	Venise eL 12.2 B + 45.3	Az 141.1 El 30.1 Sk -26.2	158.0 35.5 -15.3	170.2 37.4 -8.9	178.9 37.8 -0.8	203.5 35.1 16.3	231.9 23.4 33.6

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Spain

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk = Skew

	Turk sat	Astra 2A/2B/2D		Astra 1E/1H/1KR/2C		Hot bird 2/6/7A/8		Atlantib cbird		Hispa sat			Turk sat	Astra 2A/2B/2D		Astra 1E/1H/1KR/2C		Hot bird 2/6/7A/8		Atlantib cbird		Hispa sat	
		1C,2A	Euro bird 1	1C,2A	Euro bird 1	1C,2A	Euro bird 1	1C,2A	Euro bird 1	3	1C,1D			1C,2A	Euro bird 1	1C,2A	Euro bird 1	3	1C,1D	1C,2A	Euro bird 1	3	1C,1D
		42.0 E	26.2 E	19.2 E	13.0 E	5.0 W	30.0 W						42.0 E	26.2 E	19.2 E	13.0 E	5.0 W	30.0 W					
Albacete wL 1.8 B + 39.0	Az	123.2	137.4	149.6	157.2	185.0	220.4	La Coruña wL 8.4 B + 43.3	Az	119.5	132.7	142.7	150.3	175.0	210.0								
	El	26.3	35.2	39.8	42.3	44.7	36.3		El	19.5	29.1	32.9	35.6	39.9	35.5								
	Sk	-40.5	-31.7	-23.9	-17.5	3.9	30.3		Sk	-39.3	-32.3	-26.2	-21.2	-3.6	21.3								
Algeciras wL 5.5 B + 36.2	Az	118.4	-37.2	142.1	150.5	179.2	217.7	Las Palmas wL 15.4 B + 28.1	Az	106.8	116.3	124.3	131.0	158.7	208.9								
	El	26.2	35.1	40.6	43.7	48.1	40.7		El	20.2	32.3	39.9	44.7	55.2	53.5								
	Sk	-45.2	-37.2	-29.7	-23.4	-0.7	29.5		Sk	-57.6	-52.3	-46.8	-41.8	-18.7	25.3								
Alicante wL 0.5 B + 38.4	Az	124.1	138.6	150.0	158.9	187.2	222.3	Madrid wL 3.7 B + 40.4	Az	122.3	136.2	146.9	155.1	182.0	217.3								
	El	27.6	36.5	41.0	43.4	45.3	36.0		El	24.2	33.0	37.7	40.2	43.3	36.0								
	Sk	-40.4	-31.2	-23.1	-16.4	5.7	31.9		Sk	-40.1	-31.8	-24.6	-18.6	1.5	27.5								
Almería wL 2.5 B + 36.9	Az	121.4	135.4	146.5	155.3	184.2	221.0	Málaga wL 4.4 B + 36.7	Az	119.6	133.1	143.8	152.3	181.0	218.7								
	El	27.1	36.5	41.6	44.2	47.2	38.4		El	25.7	35.4	40.7	43.6	47.4	39.6								
	Sk	-43.0	-34.2	-26.2	-19.6	3.3	31.6		Sk	-44.2	-35.9	-28.2	-21.9	0.8	30.1								
Ávila wL 4.7 B + 40.7	Az	121.5	135.2	145.8	153.9	180.4	215.9	Palma de Mallorca eL 2.7 B + 39.6	Az	127.9	143.1	155.0	164.0	191.9	225.2								
	El	23.4	32.2	37.0	39.6	43.0	36.3		El	29.0	37.1	41.1	43.0	45.5	33.2								
	Sk	-40.2	-32.3	-25.3	-19.5	0.4	26.4		Sk	-37.4	-27.6	-19.0	-12.3	9.2	33.2								
Badajoz wL 7.0 B + 36.8	Az	118.6	131.7	141.9	149.9	176.8	214.1	Salamanca wL 5.7 B + 41.0	Az	120.9	134.3	144.8	152.8	179.0	214.6								
	El	22.7	32.2	37.5	40.5	45.0	39.1		El	22.6	31.4	36.3	38.9	42.7	36.5								
	Sk	-43.2	-35.6	-28.7	-23.0	-2.5	25.9		Sk	-40.4	-32.7	-25.8	-20.2	-0.6	25.3								
Barcelona eL 2.2 B + 41.4	Az	128.4	143.6	155.2	169.9	190.6	223.6	San Sebastian wL 2.0 B + 43.3	Az	125.4	139.7	150.5	158.7	184.4	217.8								
	El	27.5	35.3	39.1	40.9	41.6	32.1		El	23.6	31.6	35.7	37.8	40.0	32.7								
	Sk	-36.0	-26.5	-18.4	-12.3	8.1	31.2		Sk	-36.4	-28.1	-21.0	-15.3	3.2	26.5								
Dilbao wL 2.9 B + 43.3	Az	124.5	138.6	149.3	157.4	183.0	216.7	Santa Cruz de la Palma wL 17.8 B + 28.7	Az	105.5	114.9	122.5	128.9	154.7	204.3								
	El	23.1	31.1	35.4	37.6	40.1	33.2		El	18.0	30.1	37.6	42.5	53.7	53.9								
	Sk	-36.8	-28.8	-21.8	-16.3	2.2	25.8		Sk	-57.7	-52.7	-47.7	-43.1	-22.0	21.1								
Burocos wL 3.7 B + 42.4	Az	123.3	137.3	147.9	156.0	182.0	216.3	Santa Cruz de Tenerife wL 16.3 B + 28.5	Az	106.4	115.9	123.8	130.4	157.3	207.2								
	El	23.1	31.5	35.9	38.3	41.1	34.3		El	19.4	31.5	39.0	43.8	54.5	53.5								
	Sk	-38.1	-30.1	-23.1	-17.5	1.4	25.9		Sk	-57.5	-52.3	-46.9	-42.0	-19.8	23.6								
Cádiz wL 6.3 B + 36.5	Az	117.9	130.8	141.2	149.5	177.8	216.4	Santander wL 3.9 B + 43.5	Az	123.7	137.7	148.3	156.2	181.7	215.5								
	El	24.4	34.3	39.8	43.0	47.6	40.9		El	22.3	30.5	34.8	37.1	39.9	33.4								
	Sk	-45.3	-37.5	-30.2	-24.1	-1.8	28.5		Sk	-37.1	-29.3	-22.5	-17.0	1.2	24.9								
Cartagena wL 1.0 B + 37.6	Az	123.2	137.6	149.0	157.8	186.6	222.3	Sevilla wL 5.0 B + 37.4	Az	118.7	131.8	142.2	150.4	178.4	216.3								
	El	27.7	36.8	41.5	44.0	46.2	36.9		El	24.2	33.9	39.3	42.3	46.7	39.9								
	Sk	-41.5	-32.3	-24.1	-17.4	5.2	32.2		Sk	-44.2	-36.3	-29.1	-23.1	-1.3	28.0								
Córdoba wL 4.8 B + 37.8	Az	119.9	133.3	144.0	152.3	180.3	217.5	Valencia wL 0.7 B + 39.3	Az	124.5	139.0	150.3	159.5	186.8	221.6								
	El	24.8	34.3	39.5	42.3	46.2	38.9		El	26.9	35.6	40.0	42.3	44.3	35.3								
	Sk	-43.2	-35.1	-27.7	-21.5	0.0	26.8		Sk	-39.6	-30.2	-22.1	-15.7	5.2	30.9								
Gijón wL 5.7 B + 43.5	Az	122.1	135.7	146.0	154.8	179.0	213.2	Valladolid wL 4.7 B + 41.6	Az	122.0	135.7	146.3	154.3	180.4	215.4								
	El	21.1	29.4	33.9	36.4	39.8	34.2		El	22.8	31.5	36.1	38.6	41.9	35.5								
	Sk	-37.9	-30.4	-23.9	-18.7	-0.7	-0.7		Sk	-39.3	-31.5	-24.5	-18.9	0.3	25.7								
Granada wL 3.6 B + 37.2	Az	120.8	134.3	145.2	153.8	182.3	219.4	Vigo wL 8.7 B + 42.2	Az	118.8	131.8	141.8	149.4	174.5	210.2								
	El	26.1	35.6	40.7	43.5	46.9	39.8		El	19.8	29.7	33.7	36.5	41.1	36.7								
	Sk	-43.3	-34.8	-27.1	-20.6	1.0	30.4		Sk	-40.5	-33.5	-27.3	-22.4	-4.1	21.8								
Hospital de Llobregat eL 7.1 B + 41.4	Az	128.3	143.4	155.0	163.7	190.7	223.5	Zaragoza wL 1.0 B + 41.6	Az	125.4	139.9	151.0	159.4	188.0	219.9								
	El	27.5	35.3	39.1	40.9	41.7	32.1		El	25.3	33.5	37.7	39.9	41.8	33.8								
	Sk	-36.0	-26.6	-18.6	-12.1	8.0	31.1		Sk	-37.5	-28.7	-21.7	-15.1	4.5	28.6								
Ibiza eL 1.4 B + 38.9	Az	126.3	141.2	153.0	161.9	190.2	224.2																
	El	28.6	37.1	41.3	43.4	44.5	34.5																
	Sk	-38.9	-29.1	-20.7	-13.9	7.9	32.9																

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>

Switzerland

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk : Skew

		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/5/7A /B	Atlanticbrd 3	Hispasat 1C,1D
		1C,2A	Euro bird 1				
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Basel eL 7.6 B + 47.6	Az	137.1	153.0	164.5	172.7	196.9	226.2
	El	26.0	31.8	34.2	35.1	34.0	24.4
	Sk	-27.3	-17.8	-10.4	-4.9	11.3	29.1
Bern eL 7.4 B + 47.0	Az	136.7	152.6	164.1	172.4	196.8	226.3
	El	26.4	32.3	34.8	35.8	34.7	25.0
	Sk	-27.9	-18.3	-10.8	-5.2	11.3	29.5
Biel eL 8.2 B + 46.5	Az	137.3	153.4	165.0	173.4	198.0	227.4
	El	27.2	33.1	35.5	36.4	35.0	24.9
	Sk	-27.8	-18.0	-10.3	-4.5	12.2	30.4
	Az	135.0	150.7	162.2	170.6	195.3	225.3
	El	26.3	32.6	35.3	36.4	35.7	26.2
Genève eL 6.2 B + 46.2	Sk	-29.3	-19.8	-12.2	-6.5	10.6	29.5
	Az	136.7	152.5	164.1	172.4	196.8	226.3
	El	26.4	32.3	34.8	35.8	34.7	25.0
König eL 7.4 B + 46.9	Sk	-28.0	-18.4	-10.8	-5.2	11.4	29.6
	Az	135.7	151.4	162.9	171.3	195.9	225.7
	El	26.4	32.5	35.1	36.1	35.3	25.7
Lausanne eL 6.7 B + 46.5	Sk	-28.7	-19.2	-11.6	-6.0	10.9	29.6
	Az	137.8	154.0	165.7	174.2	198.8	228.1
	El	27.7	33.6	35.9	36.7	35.2	24.8
Locarno eL 8.8 B + 46.2	Sk	-27.7	-17.7	-9.8	-4.0	12.9	31.0
	Az	137.2	153.2	164.7	173.1	197.4	226.8
	El	26.6	32.4	34.8	35.7	34.5	24.6
Luzern eL 7.9 B + 47.0	Sk	-27.6	-17.9	-10.4	-4.7	11.8	29.8
	Az	139.0	155.2	166.8	175.1	199.2	228.1
	El	27.0	32.5	34.7	35.4	33.7	23.6
Senkt.Gallen eL 9.4 B + 47.4	Sk	-26.4	-16.5	-8.9	-3.3	12.9	30.3
	Az	136.8	152.8	164.3	172.7	197.1	226.6
	El	26.7	32.6	35.0	36.0	34.8	25.0
Thun eL 7.6 B + 46.8	Sk	-28.0	-18.3	-10.7	-5.1	11.6	29.8
	Az	138.4	154.4	166.0	174.2	198.4	227.4
	El	26.6	32.2	34.5	35.3	33.8	23.9
Winterthur eL 8.8 B + 47.5	Sk	-26.7	-16.9	-9.4	-3.8	12.3	29.9
	Az	138.1	154.1	165.7	174.0	198.1	227.3
	El	26.6	32.3	34.6	35.4	34.0	24.0
Zürich eL 8.6 B + 47.4	Sk	29.6	-17.1	-9.6	-4.0	12.2	29.8

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Norway

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation

		Tuerksat 1C,2A	ASTRA Eurobird 1	ASTRA 1D/3A	ASTRA 1E -	Eutelsat W2	Hotbird 2/6/7A/B	Eutelsat W1	Eutelsat W3A	Intelsat Thor 2 - 3	Atlantid Bird 3	HISPASA T 1C,1D
		42.0 East	28.2 East	23.5 East	19.2 East	16.0 East	13.0 East	10.0 East	7.0 East	1.0 West	5.0 West	30.0 West
Bergen eL 5.3; B + 60.4	Az: El: Sk:	139.4 15.0 -18.8	154.1 18.9 -12.5	159.3 19.8 -10.1	164.1 20.5 -7.8	167.6 20.9 -6.0	171.2 21.2 -4.4	174.6 21.4 -2.7	178.1 21.5 -1.0	187.3 21.3 3.6	191.8 21.0 5.8	219.2 15.4 18.2
Drammen eL 10.3; B + 59.8	Az: El: Sk:	144.4 17.0 -17.0	159.4 20.5 -10.1	164.8 21.2 -7.6	169.7 21.8 -5.2	173.4 21.8 -3.3	176.8 22.0 -1.6	180.3 22.2 0.2	183.8 22.2 1.9	193.0 21.5 6.5	197.5 21.0 8.7	224.4 14.2 20.6
Kristiansand eL 8.0; B + 58.1	Az: El: Sk:	141.6 17.7 -19.2	156.6 21.6 -12.1	161.9 22.6 -9.4	166.9 23.2 -6.9	169.9 23.6 -5.0	170.6 23.8 -3.1	174.1 23.9 -1.2	177.7 23.9 0.6	181.2 23.5 5.6	190.6 23.0 8.0	222.6 16.2 21.0
Oslo eL 10.8; B + 59.9	Az: El: Sk:	145.0 17.1 -18.7	160.0 20.4 -9.8	165.4 21.2 -7.3	170.3 21.7 -4.8	173.9 21.9 -3.0	177.4 22.0 -1.3	180.9 22.0 0.5	184.3 22.0 2.2	193.5 21.3 6.8	198.1 20.7 9.0	224.9 13.9 20.8
Stavanger eL 5.8; B + 59.0	Az: El: Sk:	139.4 16.2 -19.5	154.3 20.3 -12.9	159.6 21.3 -10.4	164.4 22.0 -7.9	168.1 22.5 -6.1	171.6 22.8 -4.3	175.0 22.9 -2.5	178.5 23.0 -0.7	187.9 22.8 4.1	192.5 22.4 6.4	220.0 16.4 19.4
Trondheim eL 10.4; B + 63.6	Az: El: Sk:	145.5 13.6 -14.6	160.3 16.7 -8.6	165.4 17.4 -6.4	170.2 17.8 -4.3	173.7 18.0 -2.8	177.1 18.1 -1.3	180.4 18.1 0.2	183.8 18.1 1.7	192.7 17.6 5.6	197.1 17.1 7.5	223.5 11.3 17.8

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Denmark

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation

		Tuerksat 1C,2A	ASTRA Eurobird 1	ASTRA 1D/3A	ASTRA 1E -	Eutelsat W2	Hotbird 2/6/7A/B	Eutelsat W1	Eutelsat W3A	Intelsat Thor 2 - 3	Atlantid Bird 3	HISPASA T 1C,1D
		42.0 East	28.2 East	23.5 East	19.2 East	16.0 East	13.0 East	10.0 East	7.0 East	1.0 West	5.0 West	30.0 West
Alborg eL 59.9; B + 57.1	Az: El: Sk:	143.3 19.3 -19.0	158.5 23.1 -11.5	163.9 23.3 -8.7	169.0 24.6 -6.0	172.8 24.9 -3.9	176.3 25.0 -2.0	179.9 25.1 -0.1	183.5 25.0 1.9	193.0 24.4 7.0	197.6 23.8 9.4	224.9 16.3 22.5
Aarhus eL 10.2; B + 56.2	Az: El: Sk:	143.3 20.1 -19.4	158.7 24.1 -11.7	164.1 24.9 -8.8	169.2 25.5 -6.0	173.0 25.8 -3.9	176.7 26.0 -1.9	180.3 26.0 0.1	183.9 26.0 2.1	193.4 25.3 7.4	198.1 24.6 10.0	225.5 16.9 23.4
Esbjerg eL 8.5; B + 55.5	Az: El: Sk:	141.2 20.0 -20.8	157.5 24.3 -13.0	162.0 25.3 -10.1	167.0 26.0 -7.3	170.9 26.4 -5.1	174.5 26.7 -3.1	178.1 26.8 -1.0	181.8 26.8 1.0	191.4 26.2 6.5	196.2 25.6 9.1	224.0 18.1 23.2
Helsingør eL 12.6; B + 56.1	Az: El: Sk:	145.8 21.0 -18.3	161.4 24.7 -10.2	166.9 25.4 -7.2	172.1 25.8 -4.4	175.9 26.1 -2.3	179.6 26.2 -0.3	183.2 26.1 1.8	186.8 26.0 3.8	196.3 25.0 9.0	201.0 24.2 11.5	228.0 15.9 24.5
Horsens eL 10.1; B + 57.1	Az: El: Sk:	143.5 19.3 -18.9	158.8 23.1 -11.4	164.2 24.0 -8.5	169.2 24.5 -5.0	173.0 24.8 -3.8	176.8 25.0 -1.9	180.1 25.0 0.1	183.7 25.0 2.0	193.2 24.3 7.1	197.8 23.7 9.8	225.1 16.2 22.6
København eL 12.6; B + 55.7	Az: El: Sk:	145.7 21.3 -18.5	161.3 25.0 -10.4	166.9 25.9 -7.4	172.0 26.3 -4.5	175.8 26.5 -2.3	178.5 26.6 -0.3	183.1 26.5 1.8	186.7 26.4 3.8	196.3 25.4 9.1	201.0 24.6 11.7	228.0 16.2 24.8
Kølning eL 9.5; B + 55.5	Az: El: Sk:	142.3 20.4 -20.3	157.7 24.6 -12.4	163.2 25.5 -9.4	168.3 26.2 -6.6	172.1 26.5 -4.5	175.8 26.7 -2.4	179.4 26.8 -0.3	183.0 26.7 1.7	192.7 26.1 7.1	197.4 25.4 9.8	225.0 17.7 23.6
Odense eL 10.4; B + 55.4	Az: El: Sk:	143.2 20.8 -19.9	158.7 24.9 -11.9	164.2 25.8 -8.9	169.4 26.4 -6.0	173.2 26.7 -3.9	176.9 26.8 -1.8	180.5 26.9 0.3	184.1 26.8 2.3	193.8 26.0 7.8	198.5 25.3 10.4	226.0 17.3 24.1
Randers eL 10.1; B + 56.5	Az: El: Sk:	143.2 19.8 -19.3	158.5 23.7 -11.6	164.1 24.8 -8.7	169.1 25.2 -6.0	172.9 25.5 -3.9	176.5 25.7 -1.9	180.1 25.7 0.1	183.7 25.7 2.1	193.2 25.0 7.3	197.9 24.3 9.8	225.2 16.7 23.1
Roskilde eL 12.1; B + 55.7	Az: El: Sk:	145.2 21.2 -19.3	160.8 25.0 -11.6	166.3 25.7 -8.7	171.4 26.3 -6.0	175.3 26.5 -3.9	178.9 26.6 -1.9	182.6 26.6 0.2	186.2 26.4 1.7	195.8 25.5 5.6	200.5 24.8 7.5	227.6 16.4 17.8

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Austria

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation

		Tuerksat IC,2A	ASTRA Eurobird 1	ASTRA ID,3A	ASTRA 1E	Eutelsat W2	Hotbird 26/7A/B	Eutelsat W1	Eutelsat W3A	Intelsat Thor 2 - 3	Atlantic Bird 3	HISPASAT IC, 1D
		42.0 East	29.2 East	23.6 East	19.2 East	16.0 East	13.0 East	10.0 East	7.0 East	1.0 West	5.C West	30.0 West
Amstetten eL 14.9; B + 48.1	Az:	145.4	162.3	168.5	174.2	178.5	182.5	186.5	190.5	200.9	205.9	233.2
	El:	28.8	33.3	34.1	34.6	34.7	34.7	34.6	34.2	32.7	31.5	20.1
	Sk:	-22.2	-11.7	-7.6	-3.9	-1.0	1.7	4.4	7.0	13.8	17.0	32.4
Attornoo eL 13.5; B + 47.9	Az:	143.8	160.6	166.6	172.4	176.7	180.7	184.8	188.8	199.3	204.3	232.0
	El:	28.5	33.2	34.1	34.7	34.9	35.0	34.9	34.6	33.2	32.1	21.0
	Sk:	-23.3	-12.9	-8.9	-5.1	-2.3	0.5	3.2	5.8	12.8	16.0	31.9
Bad Ischl eL 13.6; B + 47.7	Az:	143.9	160.7	166.7	172.5	176.8	180.9	184.9	188.9	199.4	204.5	232.2
	El:	28.7	33.4	34.4	34.9	35.1	35.2	35.1	34.8	33.4	32.3	21.0
	Sk:	-23.4	-12.9	-8.9	-5.1	-2.2	0.6	3.3	6.0	12.9	16.2	32.1
Badner eL 16.2; B + 48.0	Az:	147.0	164.1	170.2	176.0	180.3	184.3	188.3	192.3	202.6	207.6	234.5
	El:	29.5	33.6	34.1	34.8	34.9	34.8	34.5	34.1	32.1	31.2	19.4
	Sk:	21.4	10.6	6.5	2.7	0.2	2.9	5.6	8.2	14.9	18.0	33.0
Bludenz eL 9.8; B + 47.2	Az:	139.4	155.6	161.6	167.3	171.6	175.7	179.8	183.9	194.6	199.9	228.7
	El:	27.4	32.9	34.1	35.0	35.5	35.7	35.8	35.7	34.8	33.9	23.5
	Sk:	-26.3	-16.3	-12.4	-8.6	-5.7	-3.0	-0.2	2.6	9.8	13.3	30.7
Braunau eL 13.1; B + 48.3	Az:	143.4	160.1	166.2	171.8	176.0	180.1	184.1	188.1	198.5	203.6	231.4
	El:	28.0	32.7	33.6	34.3	34.5	34.6	34.5	34.3	33.0	31.9	21.0
	Sk:	-23.3	-13.1	-9.1	-5.4	-2.6	0.1	2.8	5.4	12.3	15.5	31.3
Droogrz eL 9.7; B + 47.5	Az:	139.4	155.8	161.8	167.2	171.5	175.5	179.6	183.7	194.4	199.6	228.4
	El:	27.1	32.5	33.8	34.6	35.1	35.3	35.4	35.4	34.4	33.6	23.3
	Sk:	-26.1	-16.2	-12.3	-8.6	-5.7	-3.0	-0.3	2.5	9.7	13.1	30.3
Bruck eL 16.8; B + 48.0	Az:	147.6	164.8	171.0	176.8	181.1	185.1	189.1	193.1	203.3	208.3	235.1
	El:	29.7	33.8	34.5	34.8	34.9	34.7	34.5	34.1	32.2	31.0	19.1
	Sk:	-21.0	-10.1	-6.0	-2.2	0.7	3.4	6.1	8.7	15.4	18.5	33.3
Daulslandstaz eL 15.2; B + 46.8	Az:	145.3	162.5	168.7	174.6	178.9	183.1	187.2	191.2	201.8	206.8	234.1
	El:	30.2	34.7	35.6	36.0	36.2	36.1	35.9	35.6	33.9	32.6	20.7
	Sk:	-23.0	-11.9	-7.7	-3.8	-0.8	2.1	4.9	7.6	14.7	18.0	33.7
Donaus eL 15.1; B + 47.4	Az:	145.4	162.4	168.7	174.4	178.7	182.9	186.9	190.9	201.4	206.4	233.7
	El:	29.6	34.1	34.9	35.4	35.6	35.5	35.4	35.0	33.4	32.2	20.4
	Sk:	-22.6	-11.8	-7.7	-3.8	-0.8	1.9	4.7	7.4	14.3	17.5	33.1
Dornbirn eL 9.8; B + 47.4	Az:	139.4	155.6	161.7	167.3	171.5	175.8	179.7	183.7	194.5	199.7	228.5
	El:	27.2	32.6	33.9	34.7	35.2	35.4	35.5	35.5	34.5	33.6	23.4
	Sk:	-26.1	-16.2	-12.3	-8.5	-5.7	-2.8	-0.2	2.6	9.8	13.2	30.5
Ebensee eL 13.8; B + 47.8	Az:	144.1	160.8	167.0	172.7	177.0	181.0	185.1	189.1	199.6	204.6	232.3
	El:	28.7	33.3	34.3	34.8	35.1	35.1	35.0	34.7	33.3	32.1	20.9
	Sk:	-23.2	-12.7	-8.7	-4.9	-2.0	0.7	3.4	6.1	13.0	16.3	32.1
Eisenaz eL 14.9; B + 47.5	Az:	145.3	162.2	168.4	174.2	178.5	182.6	186.6	190.7	201.1	206.1	233.5
	El:	29.4	33.9	34.8	35.2	35.4	35.4	35.2	34.9	33.2	32.1	20.4
	Sk:	-22.7	-11.9	-7.8	-3.9	-1.0	1.7	4.5	7.2	14.1	17.3	32.9
Eisenstadt eL 16.5; B + 47.5	Az:	147.1	164.3	170.5	176.3	180.7	184.7	188.8	192.8	203.2	208.1	235.0
	El:	30.1	34.2	35.0	35.4	35.4	35.3	35.1	34.6	32.8	31.6	19.5
	Sk:	-21.5	-10.5	-6.4	-2.5	0.5	3.2	5.9	8.6	15.4	18.6	33.6
Feldbach eL 15.9; B + 47.0	Az:	146.1	163.9	169.7	175.4	179.8	183.9	188.0	192.1	202.5	207.5	234.7
	El:	30.3	34.7	35.5	35.9	36.0	36.0	35.7	35.3	33.6	32.3	20.2
	Sk:	-22.3	-11.2	-7.0	-3.1	-0.1	2.7	5.5	8.2	15.2	18.4	33.8
Fohnedz eL 14.7; B + 47.2	Az:	144.8	161.8	168.1	173.8	178.2	182.3	186.3	190.4	200.9	206.0	233.4
	El:	29.6	34.2	35.1	35.6	35.7	35.7	35.6	35.2	33.6	32.5	20.8
	Sk:	-23.0	-12.2	-8.1	-4.2	-1.2	1.6	4.3	7.1	14.1	17.3	33.1
Forstfeld eL 16.1; B + 47.1	Az:	146.4	163.6	170.0	175.7	180.1	184.2	188.2	192.3	202.7	207.7	234.8
	El:	30.3	34.6	35.4	35.8	35.9	35.8	35.6	35.2	33.4	32.1	20.1
	Sk:	-22.1	-11.0	-6.8	-2.9	0.1	2.9	5.6	8.4	15.3	18.5	33.8
Gmünd eL 13.8; B + 47.9	Az:	144.2	160.9	167.0	172.7	177.0	181.1	185.1	189.1	199.6	204.6	232.3
	El:	28.6	33.2	34.2	34.7	34.9	35.0	34.9	34.6	33.1	32.0	20.8
	Sk:	-23.1	-12.7	-8.7	-4.9	-2.0	0.7	3.4	6.1	13.0	16.2	32.0
Graz eL 15.4; B + 47.1	Az:	145.6	162.7	169.0	174.8	179.1	183.2	187.3	191.4	201.9	206.9	234.1
	El:	30.0	34.4	35.3	35.8	35.9	35.8	35.6	35.3	33.6	32.3	20.4
	Sk:	-22.6	-11.6	-7.5	-3.5	-0.6	2.2	5.0	7.7	14.7	18.0	33.5
Güssing eL 16.3; B + 47.1	Az:	146.7	164.0	170.2	176.1	180.5	184.5	188.6	192.7	203.1	208.1	235.1
	El:	30.4	34.7	35.4	35.9	35.9	35.8	35.6	35.2	33.3	32.0	19.9
	Sk:	-22.0	-10.9	-6.6	-2.7	0.3	3.1	5.8	8.5	15.5	18.7	33.9
Innsbruck eL 11.4; B + 47.3	Az:	141.2	157.7	163.7	169.5	173.8	177.9	181.9	186.0	196.7	201.9	230.2
	El:	28.1	33.2	34.4	35.1	35.5	35.6	35.7	35.5	34.3	33.3	22.6
	Sk:	-25.2	-14.9	-11.0	-7.1	-4.2	-1.5	1.3	4.1	11.2	14.6	31.4
Judenburg eL 14.6; B + 47.2	Az:	144.8	161.8	168.0	173.8	178.1	182.2	186.3	190.4	200.9	205.9	233.4
	El:	29.6	34.2	35.1	35.6	35.7	35.7	35.6	35.2	33.6	32.5	20.8
	Sk:	-23.1	-12.3	-8.2	-4.3	-1.3	1.5	4.3	7.0	14.0	17.3	33.0
Kapfenberg	Az:	145.7	162.7	168.9	174.7	179.0	183.1	187.2	191.2	201.7	206.7	233.9

el. 15.3; B + 47.4	El:	29.6	34.1	34.9	35.4	35.5	35.5	35.3	34.9	33.2	32.0	20.3
	Sk:	-22.5	-11.6	-7.5	-3.6	-0.6	2.1	4.9	7.6	14.5	17.7	33.2
Kirchschiegg el. 16.3; B + 47.5	Az:	146.9	164.1	170.3	176.1	180.4	184.5	188.5	192.5	202.9	207.9	234.6
	El:	30.0	34.2	35.0	35.4	35.4	35.1	34.7	32.9	31.6	19.6	
	Sk:	-21.7	-10.7	-6.6	-2.7	0.3	3.0	5.7	8.4	15.2	18.4	33.5
Kirzfeld el. 12.4; B + 47.5	Az:	142.4	159.0	165.1	170.8	175.1	179.2	183.3	187.3	197.9	203.0	231.1
	El:	28.4	33.3	34.4	35.1	35.4	35.5	35.4	35.2	33.9	32.9	21.9
	Sk:	-24.1	-14.0	-10.0	-6.2	-3.3	-0.6	2.2	4.9	12.0	15.3	31.7
Klägerfurt el. 14.2; B + 46.4	Az:	143.9	161.0	167.3	173.1	177.5	181.7	185.8	189.9	200.6	205.7	233.3
	El:	30.1	34.9	35.7	36.4	36.6	36.6	36.5	36.2	34.6	33.4	21.6
	Sk:	-23.9	-12.9	-8.7	-4.7	-1.7	1.1	4.0	6.8	14.0	17.3	33.5
Knutzfeld el. 14.9; B + 47.2	Az:	145.1	162.1	168.4	174.1	178.4	182.5	186.6	190.6	201.1	206.2	233.6
	El:	29.6	34.2	35.1	35.6	35.7	35.7	35.5	35.2	33.6	32.4	20.7
	Sk:	-22.9	-12.0	-7.9	-4.0	-1.0	1.8	4.5	7.3	14.2	17.5	33.2
Krems el. 15.6; B + 48.4	Az:	146.4	163.4	169.5	175.2	179.5	183.5	187.5	191.4	201.7	206.7	233.8
	El:	28.9	33.1	33.9	34.3	34.4	34.4	34.2	33.8	32.2	31.0	19.5
	Sk:	-21.5	-11.0	-7.0	-3.2	-0.4	2.3	5.0	7.6	14.2	17.4	32.4
Kirnuni el. 12.2; B + 47.1	Az:	142.0	158.6	164.7	170.5	174.8	178.9	183.0	187.1	197.8	202.9	231.1
	El:	28.6	33.6	34.7	35.4	35.7	35.9	35.8	35.6	34.3	33.3	22.2
	Sk:	-24.8	-14.4	-10.3	-6.5	-3.5	-0.7	2.0	4.8	12.0	15.4	32.0
Kufstein el. 12.2; B + 47.6	Az:	142.2	158.8	164.9	170.5	174.8	178.9	183.0	187.0	197.6	202.7	230.8
	El:	28.2	33.2	34.2	34.9	35.2	35.3	35.3	35.1	33.8	32.8	21.9
	Sk:	-24.4	-14.1	-10.1	-6.4	-3.5	-0.7	2.0	4.7	11.8	15.1	31.5
Köflach el. 15.1; B + 47.1	Az:	145.3	162.3	168.6	174.4	178.7	182.9	186.9	191.0	201.5	206.5	233.9
	El:	29.9	34.4	35.2	35.8	35.9	35.9	35.7	35.3	33.7	32.5	20.6
	Sk:	-22.6	-11.9	-7.7	-3.8	-0.8	2.0	4.7	7.5	14.5	17.7	33.4
Lanckov el. 10.6; B + 47.2	Az:	140.2	156.6	162.7	168.3	172.6	176.7	180.8	184.9	195.6	200.8	229.4
	El:	27.8	33.1	34.3	35.2	35.6	35.8	35.8	35.7	34.6	33.7	23.1
	Sk:	-25.8	-15.6	-11.7	-7.9	-5.0	-2.2	0.6	3.3	10.6	14.0	30.8
Laibitz el. 15.6; B + 46.8	Az:	145.7	162.9	169.2	175.0	179.4	183.5	187.6	191.7	202.2	207.2	234.5
	El:	30.3	34.8	35.6	36.1	36.2	36.2	35.9	35.6	33.8	32.6	20.5
	Sk:	-22.7	-11.6	-7.4	-3.4	-0.4	2.4	5.2	8.0	15.0	18.3	33.9
Lienz el. 12.8; B + 46.8	Az:	142.5	159.3	165.5	171.2	175.6	179.7	183.8	187.9	198.6	203.7	231.7
	El:	29.1	34.1	35.2	35.8	36.1	36.2	36.1	35.9	34.5	33.4	22.1
	Sk:	-24.6	-14.0	-9.9	-6.0	-3.0	-0.2	2.8	5.4	12.6	16.0	32.5
Liezén el. 14.3; B + 47.6	Az:	144.5	161.4	167.6	173.3	177.6	181.7	185.7	189.8	200.3	205.3	232.9
	El:	29.1	33.7	34.6	35.1	35.3	35.3	35.2	35.6	33.4	32.2	20.8
	Sk:	-23.0	-12.4	-8.3	-4.5	-1.6	1.2	3.9	6.6	13.6	16.8	32.5
Litz el. 14.3; B + 48.3	Az:	144.9	161.7	167.8	173.5	177.7	181.7	185.7	189.7	200.1	205.1	232.6
	El:	28.4	32.9	33.8	34.3	34.5	34.5	34.4	34.1	32.6	31.5	20.3
	Sk:	-22.5	-12.1	-8.1	-4.4	-1.5	1.2	3.8	6.5	13.2	16.4	31.9
Loasen el. 15.1; B + 47.4	Az:	145.4	162.4	168.7	174.4	178.8	182.9	186.9	190.9	201.4	206.4	233.7
	El:	29.6	34.1	34.9	35.4	35.6	35.5	35.4	35.0	33.4	32.2	20.4
	Sk:	-22.6	-11.8	-7.7	-3.8	-0.8	1.9	4.7	7.4	14.3	17.5	33.1
Lötler el. 12.7; B + 47.6	Az:	142.7	159.4	165.5	171.2	175.5	179.6	183.6	187.7	198.3	203.4	231.3
	El:	28.4	33.3	34.3	35.0	35.2	35.3	35.3	35.1	33.7	32.7	21.7
	Sk:	-24.1	-13.7	-9.7	-5.9	-3.0	-0.3	2.5	5.2	12.2	15.5	31.8
Marzell el. 15.3; B + 47.8	Az:	145.8	162.8	169.0	174.8	179.1	183.1	187.2	191.2	201.6	206.6	233.8
	El:	29.3	33.7	34.5	35.0	35.1	35.1	34.9	34.5	32.9	31.7	20.0
	Sk:	-22.2	-11.4	-7.4	-3.5	-0.6	2.1	4.8	7.5	14.3	17.5	32.8
Matteisburg el. 16.4; B + 47.7	Az:	147.1	164.2	170.4	176.2	180.5	184.8	188.6	192.6	203.0	207.9	234.8
	El:	29.8	34.0	34.8	35.1	35.2	35.1	34.8	34.4	32.6	31.4	19.4
	Sk:	-21.5	-10.5	-6.4	-2.6	0.4	3.1	5.8	8.5	15.2	18.4	33.4
Marzschlag el. 15.7; B + 47.6	Az:	148.2	163.3	169.5	175.2	179.6	183.9	187.7	191.7	202.1	207.1	234.2
	El:	29.6	34.0	34.8	35.2	35.3	35.3	35.0	34.7	33.0	31.7	19.9
	Sk:	-22.0	-11.2	-7.1	-3.2	-0.3	2.5	5.2	7.9	14.7	17.9	33.2
Pied el. 13.5; B + 48.2	Az:	143.9	160.6	166.7	172.4	176.6	180.7	184.7	188.7	199.1	204.2	231.6
	El:	28.2	32.8	33.8	34.4	34.6	34.6	34.5	34.3	32.9	31.8	20.8
	Sk:	-23.1	-12.8	-8.8	-5.1	-2.2	0.5	3.1	5.8	12.6	15.8	31.6
Poltenmann el. 14.4; B + 47.5	Az:	144.6	161.5	167.7	173.5	177.8	181.9	185.9	189.9	200.4	205.5	233.0
	El:	29.2	33.8	34.7	35.2	35.4	35.4	35.2	34.9	33.4	32.2	20.8
	Sk:	-23.0	-12.3	-8.3	-4.4	-1.5	1.3	4.0	6.7	13.7	16.9	32.7
Saitfelden el. 12.9; B + 47.4	Az:	142.9	159.6	165.7	171.4	175.7	179.9	183.9	187.9	198.5	203.6	231.6
	El:	28.6	33.5	34.6	35.2	35.4	35.5	35.5	35.2	33.9	32.8	21.7
	Sk:	-24.1	-13.6	-9.6	-5.8	-2.9	-0.1	2.7	5.4	12.5	15.8	32.0
Saizburg el. 13.1; B + 47.8	Az:	143.3	159.9	166.1	171.7	176.0	180.1	184.1	188.1	198.7	203.7	231.6
	El:	28.4	33.2	34.2	34.8	35.0	35.1	35.0	34.8	33.4	32.4	21.3
	Sk:	-23.7	-13.3	-9.3	-5.5	-2.6	0.1	2.8	5.5	12.5	15.7	31.8
Sant'Pölten el. 15.6; B + 48.2	Az:	146.4	163.3	169.5	175.2	179.5	183.5	187.5	191.5	201.8	206.8	233.9
	El:	29.1	33.3	34.1	34.5	34.6	34.6	34.4	34.0	32.4	31.2	19.6
	Sk:	-21.7	-11.0	-7.0	-3.2	-0.4	2.3	5.0	7.6	14.3	17.5	32.6
Scheibbs	Az:	145.7	162.7	168.9	174.6	178.9	182.9	186.9	190.9	201.3	206.3	233.5

eL 15.2; B + 48.0	EI:	29.1	33.4	34.3	34.7	34.9	34.8	34.6	34.3	32.7	31.5	20.0
	SK:	-22.1	-11.5	-7.4	-3.6	-0.7	2.0	4.7	7.3	14.1	17.3	32.8
Schelling eL 14.3; B + 47.1	Az:	144.4	161.3	167.5	173.3	177.7	181.8	185.9	189.9	200.5	205.6	233.1
	EI:	29.5	34.2	35.1	35.7	35.8	35.9	35.7	35.4	33.8	32.7	21.1
Sk:	-23.4	-12.6	-8.5	-4.5	-1.6	1.2	4.0	6.7	13.8	17.1	33.0	
	Spritz eL 13.5; B + 46.8	Az:	143.3	160.2	166.4	172.2	176.6	180.7	184.8	188.9	199.6	204.7
EI:		29.4	34.3	35.3	35.9	36.1	36.2	36.1	35.8	34.3	33.2	21.7
St. Veit (a. d.) eL 14.4; B + 46.9	SK:	-24.1	-13.4	-9.3	-5.3	-2.4	0.5	3.3	6.1	13.2	16.6	32.9
	Az:	144.4	161.4	167.6	173.4	177.8	181.9	186.0	190.0	200.6	205.7	233.3
St. Veit eL 14.4; B + 46.9	EI:	29.7	34.4	35.3	35.9	36.1	36.1	35.9	35.6	34.0	32.8	21.1
	SK:	-23.4	-12.6	-8.4	-4.5	-1.5	1.3	4.1	6.9	14.0	17.3	33.2
St. Veit eL 14.4; B + 46.9	Az:	144.9	161.8	167.9	173.6	177.9	181.9	185.9	189.9	200.3	205.4	232.8
	EI:	29.7	33.2	34.1	34.6	34.6	34.8	34.8	34.3	32.6	31.7	20.4
St. Veit eL 14.4; B + 46.9	SK:	-22.6	-12.1	-8.1	-4.3	-1.4	1.3	3.9	6.6	13.4	16.6	32.1
	Stöckerau eL 16.3; B + 48.3	Az:	147.2	164.2	170.4	176.1	180.4	184.4	188.4	192.4	202.6	207.6
EI:		29.3	33.4	34.1	34.5	34.6	34.5	34.2	33.8	32.1	30.9	18.2
Stöckerau eL 16.3; B + 48.3	SK:	-21.1	-10.4	-6.4	-2.6	0.3	2.9	5.6	8.2	14.6	17.9	32.8
	Teugg eL 12.7; B + 47.3	Az:	142.6	159.3	165.5	171.1	175.5	179.5	183.6	187.7	198.3	203.4
EI:		28.7	33.6	34.6	35.3	35.6	35.7	35.6	35.4	34.1	33.0	21.9
Teugg eL 12.7; B + 47.3	SK:	-24.3	-13.9	-9.8	-6.0	-3.0	-0.3	2.5	5.2	12.3	15.7	32.0
	Willacht eL 13.9; B + 46.6	Az:	143.6	160.6	166.9	172.7	177.0	181.2	185.3	189.4	200.0	205.2
EI:		29.7	34.6	35.6	36.1	36.4	36.4	36.3	36.0	34.4	33.3	21.6
Willacht eL 13.9; B + 46.6	SK:	-24.0	-13.2	-9.0	-5.0	-2.0	0.9	3.7	6.5	13.7	17.0	33.3
	Wolfsberg eL 15.2; B + 47.1	Az:	145.3	162.4	168.7	174.5	178.8	182.9	187.0	191.1	201.6	206.6
EI:		29.9	34.4	35.3	35.8	35.9	35.9	35.7	35.3	33.7	32.4	20.6
Wolfsberg eL 15.2; B + 47.1	SK:	-22.7	-11.8	-7.6	-3.7	-0.7	2.0	4.8	7.6	14.5	17.8	33.4
	Wolfsberg eL 15.3; B + 48.8	Az:	146.2	163.1	169.2	174.8	179.0	183.3	187.0	190.9	201.2	206.2
EI:		29.4	32.6	33.4	33.9	34.0	33.9	33.8	33.4	31.8	30.7	19.4
Wolfsberg eL 15.3; B + 48.8	SK:	-21.5	-11.1	-7.1	-3.4	-0.6	2.0	4.6	7.2	13.8	16.9	31.9
	Weiz eL 15.4; B + 47.1	Az:	145.6	162.8	169.0	174.8	179.2	183.3	187.4	191.4	201.9	206.9
EI:		30.0	34.4	35.3	35.7	35.9	35.8	35.6	35.2	33.5	32.3	20.4
Weiz eL 15.4; B + 47.1	SK:	-22.6	-11.6	-7.5	-3.5	-0.6	2.2	5.0	7.7	14.7	18.0	33.5
	Weiz eL 14.0; B + 48.2	Az:	144.5	161.3	167.4	173.1	177.3	181.4	185.4	189.4	199.8	204.8
EI:		28.5	33.0	33.9	34.5	34.7	34.7	34.6	34.3	32.8	31.7	20.5
Weiz eL 14.0; B + 48.2	SK:	-22.8	-12.4	-8.4	-4.6	-1.8	0.9	3.6	6.2	13.0	16.2	31.8
	Weiz eL 16.4; B + 48.2	Az:	147.2	164.3	170.5	176.2	180.5	184.5	188.5	192.5	202.8	207.7
EI:		29.4	33.5	34.2	34.6	34.6	34.6	34.3	33.9	32.1	30.9	19.2
Weiz eL 16.4; B + 48.2	SK:	-21.1	-10.4	-6.3	-2.5	0.4	3.0	5.7	8.3	15.0	18.1	32.9
	Wolfsberg eL 14.9; B + 46.8	Az:	144.9	162.0	168.3	174.1	178.4	182.5	186.7	190.7	201.3	206.4
EI:		30.0	34.6	35.5	36.0	36.2	36.1	36.0	35.6	34.0	32.8	20.9
Wolfsberg eL 14.9; B + 46.8	SK:	-23.2	-12.2	-8.0	-4.0	-1.0	1.8	4.6	7.4	14.4	17.7	33.5
	Wörgl eL 12.1; B + 47.5	Az:	142.0	158.6	164.7	170.3	174.6	178.7	182.8	186.8	197.5	202.6
EI:		28.2	33.2	34.3	35.0	35.3	35.4	35.4	35.2	34.0	33.0	22.1
Wörgl eL 12.1; B + 47.5	SK:	-24.6	-14.3	-10.3	-6.5	-3.6	-0.8	1.9	4.7	11.7	15.1	31.6

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>