

Figure 7

K1SIX Summer Transatlantic Es Time Correlations

CALCULATED % DIURNAL PROBABILITY	CHARTED REFERENCE UTC	FIXED WESTERN LST for LOC: FN43ad	3 Point Average MIDPOINT LST for LOC: HO10In	3 Point Average EASTERN LST for LOC: JN05bq
0.00%	5:30	1:30	3:30	7:30
0.03%	6:30	2:30	4:30	8:30
0.00%	7:30	3:30	5:30	9:30
0.68%	8:30	4:30	6:30	10:30
1.45%	9:30	5:30	7:30	11:30
3.12%	10:30	6:30	8:30	12:30
6.40%	11:30	7:30	9:30	13:30
6.28%	12:30	8:30	10:30	14:30
6.06%	13:30	9:30	11:30	15:30
4.96%	14:30	10:30	12:30	16:30
5.14%	15:30	11:30	13:30	17:30
5.12%	16:30	12:30	14:30	18:30
4.84%	17:30	13:30	15:30	19:30
5.80%	18:30	14:30	16:30	20:30
8.95%	19:30	15:30	17:30	21:30
13.01%	20:30	16:30	18:30	22:30
14.14%	21:30	17:30	19:30	23:30
9.46%	22:30	18:30	20:30	0:30
3.45%	23:30	19:30	21:30	1:30
0.80%	0:30	20:30	22:30	2:30
0.24%	1:30	21:30	23:30	3:30
0.06%	2:30	22:30	0:30	4:30
0.02%	3:30	23:30	1:30	5:30
0.02%	4:30	0:30	2:30	6:30

The timing for the best *Multihop Es* probability for the paths<sup>2</sup> under scrutiny is:

<b>SUNRISE</b>	Path Midpoint Sunrise Diurnal Contribution is:	21.86%
<b>Hi Solar El.</b>	Path Midpoint High Solar °Elevation Represents:	20.05%
<b>SUNSET</b>	Path Midpoint Sunset Diurnal Contribution is:	54.81%
Total contribution for all highlighted Solar Elevation correlations is:		<b>96.72%</b>

Statistical Foundation<sup>1</sup>

<b>6,639</b>	Total contributing "qualifying data points" for diurnal assessment
<b>612</b>	Total contributing qualifying Es days. Last updated: <b>29-Aug-16</b>
<b>34</b>	Total years of screened "qualifying data" collection contribution

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<sup>1</sup> Data collection methodology is "casual", not 24/7 but focused with significant dedication.  
<sup>2</sup> It is likely that Mixed Zonal Es propagation had an influence on the results. There are 4 Es types within the Temperate and the Polar (Auroral) zones and 2 in the Equatorial zone known.