

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 |
| 0.61% | 8:30 | 4:30 | 6:30 | 10:30 |
| 1.36% | 9:30 | 5:30 | 7:30 | 11:30 |
| 3.27% | 10:30 | 6:30 | 8:30 | 12:30 |
| 6.19% | 11:30 | 7:30 | 9:30 | 13:30 |
| 6.73% | 12:30 | 8:30 | 10:30 | 14:30 |
| 6.67% | 13:30 | 9:30 | 11:30 | 15:30 |
| 5.44% | 14:30 | 10:30 | 12:30 | 16:30 |
| 5.52% | 15:30 | 11:30 | 13:30 | 17:30 |
| 5.48% | 16:30 | 12:30 | 14:30 | 18:30 |
| 5.28% | 17:30 | 13:30 | 15:30 | 19:30 |
| 5.49% | 18:30 | 14:30 | 16:30 | 20:30 |
| 8.33% | 19:30 | 15:30 | 17:30 | 21:30 |
| 12.40% | 20:30 | 16:30 | 18:30 | 22:30 |
| 13.84% | 21:30 | 17:30 | 19:30 | 23:30 |
| 8.98% | 22:30 | 18:30 | 20:30 | 0:30 |
| 3.31% | 23:30 | 19:30 | 21:30 | 1:30 |
| 0.76% | 0:30 | 20:30 | 22:30 | 2:30 |
| 0.22% | 1:30 | 21:30 | 23:30 | 3:30 |
| 0.05% | 2:30 | 22:30 | 0:30 | 4:30 |
| 0.01% | 3:30 | 23:30 | 1:30 | 5:30 |
| 0.01% | 4:30 | 0:30 | 2:30 | 6:30 |

The timing for the best *Multihop Es* probability for the paths² under scrutiny is:

| | | |
|---|---|---------------|
| SUNRISE | Path Midpoint Sunrise Diurnal Contribution is: | 22.86% |
| Hi Solar El. | Path Midpoint High Solar °Elevation Represents: | 21.71% |
| SUNSET | Path Midpoint Sunset Diurnal Contribution is: | 52.36% |
| Total contribution for all highlighted Solar Elevation correlations is: | | 96.93% |

Statistical Foundation¹

| | |
|--------------|---|
| 7,336 | Total contributing "qualifying data points" for diurnal assessment |
| 658 | Total contributing qualifying Es days. Last updated: 31-Aug-17 |
| 35 | Total years of screened "qualifying data" collection contribution |

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¹ Data collection methodology is "casual", not 24/7 but focused with significant dedication.
² 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.