

Compilation of K1SIX JA "SSSP" DX via 6M Es

| <u>K1SIX¹</u> | <u>K1SIX¹</u> | <u>DX</u> | <u>DX</u> | <u>K1SIX</u> | <u>Y Val</u> | <u>x Val</u> | <u>MIDPOINT</u> | <u>PATH</u> | <u>WESTERN</u> | <u>EASTERN</u> |
|--------------------------|--------------------------|-------------|-------------|----------------------------|-------------------------|-------------------------|-------------------------|------------------------------------|-----------------|-----------------|
| <u>Z- DATE</u> | <u>Z- TIME</u> | <u>CALL</u> | <u>GRID</u> | <u>DX (KM)²</u> | <u>1 HOP</u> | <u>Est.</u> | <u>GRID²</u> | <u>MIDPOINT</u> | <u>TERMINUS</u> | <u>TERMINUS</u> |
| | | | | | <u>Prob³</u> | <u>Hops²</u> | | <u>Solar Elevation⁴</u> | <u>LST</u> | <u>LST</u> |
| 06/23/10 | 22:19 | JE1BMJ | QM05br | 10,660 | 0.742 | 5 | BQ11sd ⁵ | 42.3° MAX | 7:19 | 18:19 |
| 06/23/10 | 22:28 | JA1RJU | PM95sq | 10,685 | 0.742 | 5 | BQ11mk ⁵ | 42.0° MAX | 7:28 | 18:28 |
| 06/23/10 | 22:34 | JA7KE | QM08pk | 10,343 | 0.742 | 5 | BQ31wm ⁵ | 41.8° S | 7:34 | 18:34 |
| 06/23/10 | 22:36 | JH1MCX | PM95sh | 10,723 | 0.742 | 5 | BQ11gg ⁵ | 42.1° S | 7:36 | 18:36 |
| 06/23/10 | 22:37 | JH7MSB | QM08ke | 10,383 | 0.742 | 5 | BQ31pp ⁵ | 41.7° S | 7:37 | 18:37 |
| 06/23/10 | 22:39 | JA7WS | QM07lp | 10,435 | 0.742 | 5 | BQ31hk ^b | 41.9° S | 7:39 | 18:39 |
| 06/25/11 | 22:20 | JE1BMJ | QM05br | 10,660 | 0.817 | 5 | BQ11sd ⁵ | 42.2° MAX | 7:20 | 18:20 |
| 06/25/11 | 22:29 | JA3EGE | PM74ov | 10,909 | 0.817 | 5 | AQ93aj ⁵ | 39.9° R | 7:29 | 18:29 |
| 06/25/11 | 22:30 | JH3PRR | PM74os | 10,922 | 0.817 | 5 | AQ83wi ⁵ | 39.9° R | 7:30 | 18:30 |
| 06/25/11 | 22:32 | JA7IC | QM07eg | 10,494 | 0.817 | 5 | BQ21un ⁵ | 41.8° MAX | 7:32 | 18:32 |
| 06/25/11 | 22:35 | JH6CDI | PM52au | 11,271 | 0.817 | 5+ | AQ45nk ⁵ | 37.5° R | 7:35 | 18:35 |
| 06/25/11 | 22:37 | JA1BK | PM95pj | 10,723 | 0.817 | 5 | BQ11fk ⁵ | 41.9° MAX | 7:37 | 18:37 |
| 06/25/11 | 22:58 | JR3CBC?? | Heard | N/A | 0.817 | ? | UNKNOWN | N/A | 7:38 | 18:58 |
| 06/26/11 | 0:06 | JA6GCE | PM52hv | 11,251 | 0.899 | 5+ | AQ45xd ^b | 37.9° S | 9:06 | 20:06 |
| 07/06/14 | 22:28 | JL8GFB | QN03qg | 9,842 | 0.742 | 5 | BQ73ka | 39.2° S of 39.6° MAX | 7:28 | 18:28 |

K1SIX Parsed ACE and Potsdam Averaged data for only 2000- 2300 UTC

| K1SIX Es to Far East for: | 3 | Total Dates Sampled | |
|---------------------------------------|---------------|----------------------------|------------|
| K1SIX Parameter | LO | HIGH | AVE |
| Averaged SWS (kms) | 274.1 | 545.1 | 377.1 |
| Averaged Proton Density (p/cc) | 1.5 | 3.9 | 2.7 |
| Averaged ION Temp. (k) | 21,225 | 140,750 | 64,008 |
| Averaged MAG Bt | 2.0 | 5.1 | 3.8 |
| Averaged MAG Bz | -2.5 | 0.7 | -0.43 |
| Averaged Potsdam Kp | 0.50 | 1.83 | 1.11 |
| % Days with -Bz Average | 33.33% | 15 | Data Pts. |

¹ All data worked or heard from K1SIX (FN43ad) with areas of possible interest highlighted.

² Estimated using custom software developed by K1SIX.

³ Estimated from K1SIX transatlantic data for a particular day. Use Y^x to determine probability for # of estimated hops shown. This

Click on "K0GU Data" or "K6QXY Data" to view the referenced information

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estimate does not assume chordal extensions or path loss associated with return to earth. It is strictly based upon range and shown for informational purposes only that could aid in determining any chordal contribution. Shown as a decimal value.

⁴ Calculated using GJTracker by W7GJ in the Sun tracking mode for the particular time/date shown. R is rising mode, S is setting mode.

⁵ Significant time dependent evidence of very narrow footprint when viewed from the path midpoint perspective.

Although this information is extremely limited to **15** data points, there is very strong correlation to both [K0GU data](#) and [K6QXY data](#) showing that for extreme DX Auroral Zone crossing paths, the best probability may be realized very close to the maximum solar elevation at the path midpoint.

This compilation is free to use for your personal interest and research and was last updated on [15 Sept 2016](#). It is hoped to be of value. If you utilize this information in your research papers or articles:

Please credit the source: Bob Mobile, K1SIX. Thank You!

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