



# Orbital Distances

Orbits are standardized on the traditional Titus-Bode Relation distances primarily for ease of use.

## Orbits

### 5 ORBITAL DISTANCES

|               | S= | O=  | AU     | Million km | Light- | Surface of Star inside this Orbit |       |       |       |
|---------------|----|-----|--------|------------|--------|-----------------------------------|-------|-------|-------|
|               |    |     |        |            |        | Ia                                | Ib    | II    | III   |
| Inner System  | 10 | 0   | 0.2    | 30         | 100 ls |                                   |       | A0-F5 | A0-K0 |
|               |    | 1   | 0.4    | 60         | 200 ls |                                   | A0    | G0-G5 | K5    |
|               |    | 2   | 0.7    | 105        | 350 ls |                                   | A5-G0 | K0    | M0    |
|               | 11 | 3   | 1      | 150        | 8 lm   |                                   |       |       |       |
|               |    | 4   | 1.6    | 240        | 13 lm  | A0-F5                             | G5    | K5    |       |
| 12            | 5  | 2.8 | 420    | 30 lm      | G0     | K0                                | M0    | M5    |       |
| Outer System  |    | 6   | 5.2    | 780        | 43 lm  | G5-K0                             | K5    | M5    | M9    |
|               |    | 7   | 10     | 1,500      | 83 lm  | K5                                | M0    | M9    |       |
|               |    | 8   | 20     | 3,000      | 3 lh   | M0                                | M5-M9 |       |       |
|               |    | 9   | 40     | 6,000      | 5 lh   | M5-M9                             |       |       |       |
|               |    | 10  | 77     | 11,550     | 10 lh  | Kuiper Belt                       |       |       |       |
|               |    | 11  | 154    | 23,100     | 21 lh  | Kuiper Belt                       |       |       |       |
|               | 12 | 308 | 46,200 | 42 lh      |        |                                   |       |       |       |
| Remote System |    | 13  | 615    | 92,250     | 3 ld   |                                   |       |       |       |
|               |    | 14  | 1,230  | 184,500    | 7 ld   |                                   |       |       |       |
|               |    | 15  | 2,458  | 368,700    | 14 ld  |                                   |       |       |       |
|               |    | 16  | 4,916  | 737,400    | 4 lw   |                                   |       |       |       |
|               |    | 17  | 9,830  | 1,474,500  | 8 lw   |                                   |       |       |       |
|               |    | 18  | 19,500 | 2,925,000  | 16 lw  |                                   |       |       |       |
|               |    | 19  | 39,500 | 5,925,000  | 32 lw  | Oort Cloud                        |       |       |       |
|               |    | 20  | 78,700 | 11,805,000 | 1 ly   | Oort Cloud                        |       |       |       |

O= Orbit =

Stars shown physically occupy the orbits shown.

#### THE 10D GRAVITIC DRIVE LIMIT

|    | Ia | Ib | II | III | IV | V | VI | D |
|----|----|----|----|-----|----|---|----|---|
| A0 | 7  | 5  | 4  | 1   | 1  | 0 | *  | * |
| A5 | 7  | 5  | 3  | 1   | 0  | * | *  | * |
| F0 | 7  | 6  | 3  | 1   | 0  | * | *  | * |
| F5 | 7  | 6  | 4  | 1   | 0  | * | *  | * |
| G0 | 8  | 6  | 4  | 1   | 0  | * | *  | * |
| G5 | 9  | 7  | 5  | 3   | 0  | * | *  | * |
| K0 | 10 | 7  | 6  | 3   | 0  | * | *  | * |
| K5 | 10 | 8  | 7  | 5   |    | * | *  | * |
| M0 | 11 | 10 | 8  | 6   |    | * | *  | * |
| M5 | 11 | 11 | 9  | 8   |    | * | *  | * |
| M9 | 12 | 11 | 10 | 8   |    | * | *  | * |

G-Drives inoperable outside this orbit.

#### THE 100D JUMP DRIVE LIMIT

|    | Ia | Ib | II | III | IV | V | VI | D |
|----|----|----|----|-----|----|---|----|---|
| A0 | 10 | 9  | 7  | 6   | 5  | 5 |    | * |
| A5 | 10 | 9  | 7  | 5   | 4  | 4 |    | * |
| F0 | 11 | 9  | 7  | 5   | 4  | 3 |    | * |
| F5 | 11 | 9  | 7  | 5   | 4  | 3 | 3  | * |
| G0 | 11 | 10 | 8  | 6   | 4  | 2 | 2  | * |
| G5 | 12 | 10 | 8  | 7   | 4  | 2 | 1  | * |
| K0 | 12 | 11 | 9  | 7   | 5  | 2 | 0  | * |
| K5 | 13 | 12 | 10 | 9   |    | 1 | 0  | * |
| M0 | 14 | 13 | 11 | 9   |    | 1 | 0  | * |
| M5 | 15 | 14 | 13 | 11  |    | 0 | *  | * |
| M9 | 15 | 15 | 13 | 12  |    | * | *  | * |

J-Drives inoperable within this orbit.

#### THE 1000D MANEUVER DRIVE LIMIT

|    | Ia | Ib | II | III | IV | V | VI | D |
|----|----|----|----|-----|----|---|----|---|
| A0 | 13 | 12 | 11 | 9   | 9  | 8 |    | * |
| A5 | 14 | 12 | 10 | 9   | 8  | 7 |    | * |
| F0 | 14 | 12 | 10 | 9   | 8  | 7 |    | * |
| F5 | 14 | 12 | 11 | 9   | 8  | 7 | 7  | * |
| G0 | 15 | 13 | 11 | 9   | 8  | 6 | 6  | * |
| G5 | 15 | 14 | 12 | 10  | 8  | 6 | 5  | * |
| K0 | 16 | 14 | 12 | 10  | 8  | 6 | 5  | * |
| K5 | 16 | 15 | 13 | 12  |    | 6 | 5  | * |
| M0 | 17 | 16 | 14 | 12  |    | 5 | 4  | * |
| M5 | 18 | 17 | 16 | 14  |    | 5 | 2  | * |
| M9 | 18 | 18 | 16 | 15  |    | 4 | 1  | * |

M-Drives inoperable outside this orbit.

Limit shown is beyond (within for Jump) the Orbit Number shown. \* = inside Orbit 0. Blank = Not possible.

