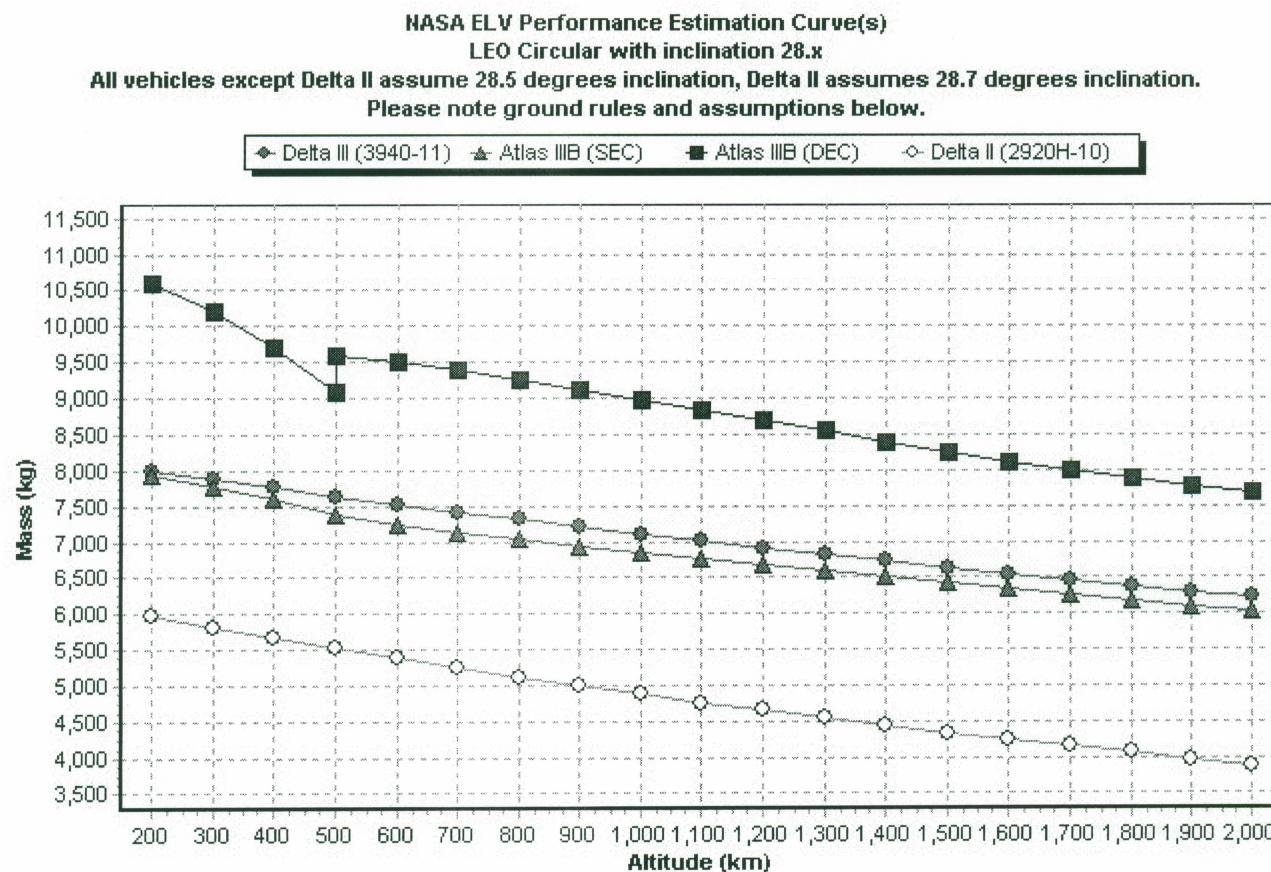


## Performance Plot Results:



**Important Note:** The data contained in these curves are based on ground rules and assumptions located below the plot. Please read this information carefully. This information is intended for NASA customers only.



## Assumptions:

### Delta III (3940-11)

- All performance normalized to 3810 kg (8400 lb) payload capability to GTO.
- Launch from SLC-17 at CCAFS (Cape Canaveral Air Force Station).
- 1666-4 payload adapter.
- 185 km (100 nmi) park orbit perigee.

Last Updated: 9/17/01 1:14:12 PM

### Atlas IIIB (SEC)

- 3-sigma mission required margin, plus additional reserves as determined by the LSP.
- Launch from SLC-36B at CCAFS (Cape Canaveral Air Force Station).
- Type B2 payload adapter.
- 4-meter Large Payload Fairing (LPF).
- Performance values assume harness, logo, reradiating antenna, mission satisfaction kit, payload fairing acoustic blankets, 3 payload fairing doors.
- Payload mass greater than 9000 kg (19,841 lbs) may require mission unique accommodations.
- 148 km (80 nmi) minimum park orbit perigee altitude.

Last Updated: 7/3/01 4:03:10 PM

### Atlas IIIB (DEC)

- 3-sigma mission required margin, plus additional reserves as determined by the LSP.
- Launch from SLC-36B at CCAFS (Cape Canaveral Air Force Station).
- Type B2 payload adapter.

- 4-meter Large Payload Fairing (LPF).
- Performance values assume harness, logo, reradiating antenna, mission satisfaction kit, payload fairing acoustic blankets, 3 payload fairing doors.
- Payload mass greater than 9000 kg (19,841 lbs) may require mission unique accommodations.
- 148 km (80 nmi) minimum park orbit perigee altitude.

Last Updated: 7/3/01 4:03:10 PM

**Delta II (2920H-10)**

- 99.7% Probability of Command Shutdown (PCS).
- 185 km (100 nmi) park orbit altitude.
- 6915 Payload Attach Fitting (PAF).

Last Updated: 7/3/01 2:37:07 PM

**Save Plot**

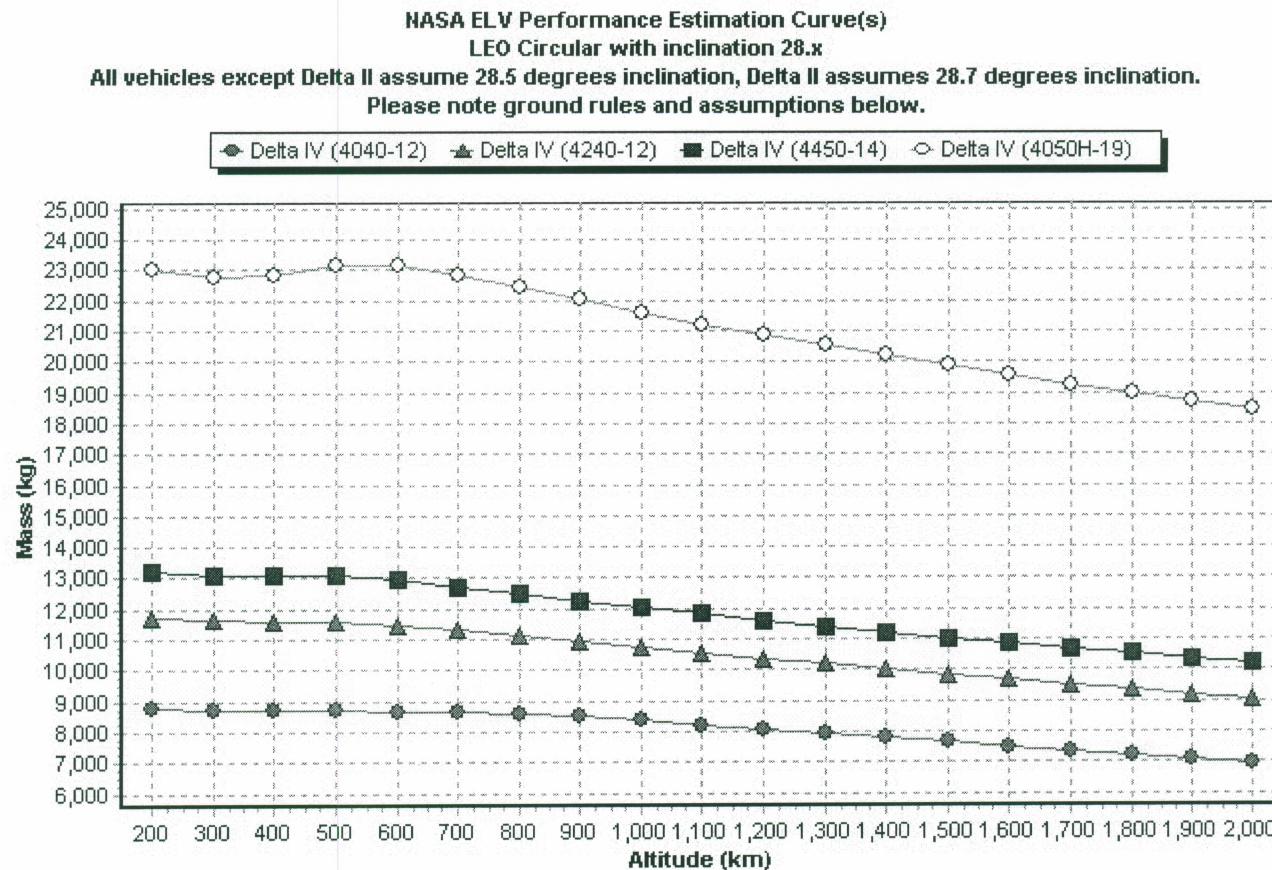
**Print Plot**

**New Graph**

## Performance Plot Results:



**Important Note:** The data contained in these curves are based on ground rules and assumptions located below the plot. Please read this information carefully. This information is intended for NASA customers only.



## Assumptions:

### Delta IV (4040-12)

- 3-sigma probability of Stage 2 commanded shutdown, plus additional reserves as determined by the LSP.
- 1194-4 payload adapter.
- Launch from SLC-37 at CCAFS (Cape Canaveral Air Force Station).
- 185 km (100 nmi) park orbit perigee.

Last Updated: 7/3/01 4:29:31 PM

### Delta IV (4240-12)

- 3-sigma probability of Stage 2 commanded shutdown, plus additional reserves as determined by the LSP.
- 1194-4 payload adapter.
- Launch from SLC-37 at CCAFS (Cape Canaveral Air Force Station).
- 185 km (100 nmi) park orbit perigee.

Last Updated: 7/3/01 4:30:49 PM

### Delta IV (4450-14)

- 3-sigma probability of Stage 2 commanded shutdown, plus additional reserves as determined by the LSP.
- 1194-5 payload adapter.
- Launch from SLC-37 at CCAFS (Cape Canaveral Air Force Station).
- 185 km (100 nmi) park orbit perigee.

Last Updated: 7/3/01 4:31:05 PM

### Delta IV (4050H-19)

- 3-sigma probability of Stage 2 commanded shutdown, plus additional reserves as determined by the LSP.
- 1194-5 payload adapter.
- Launch from SLC-37 at CCAFS (Cape Canaveral Air Force Station).
- 185 km (100 nmi) park orbit perigee.

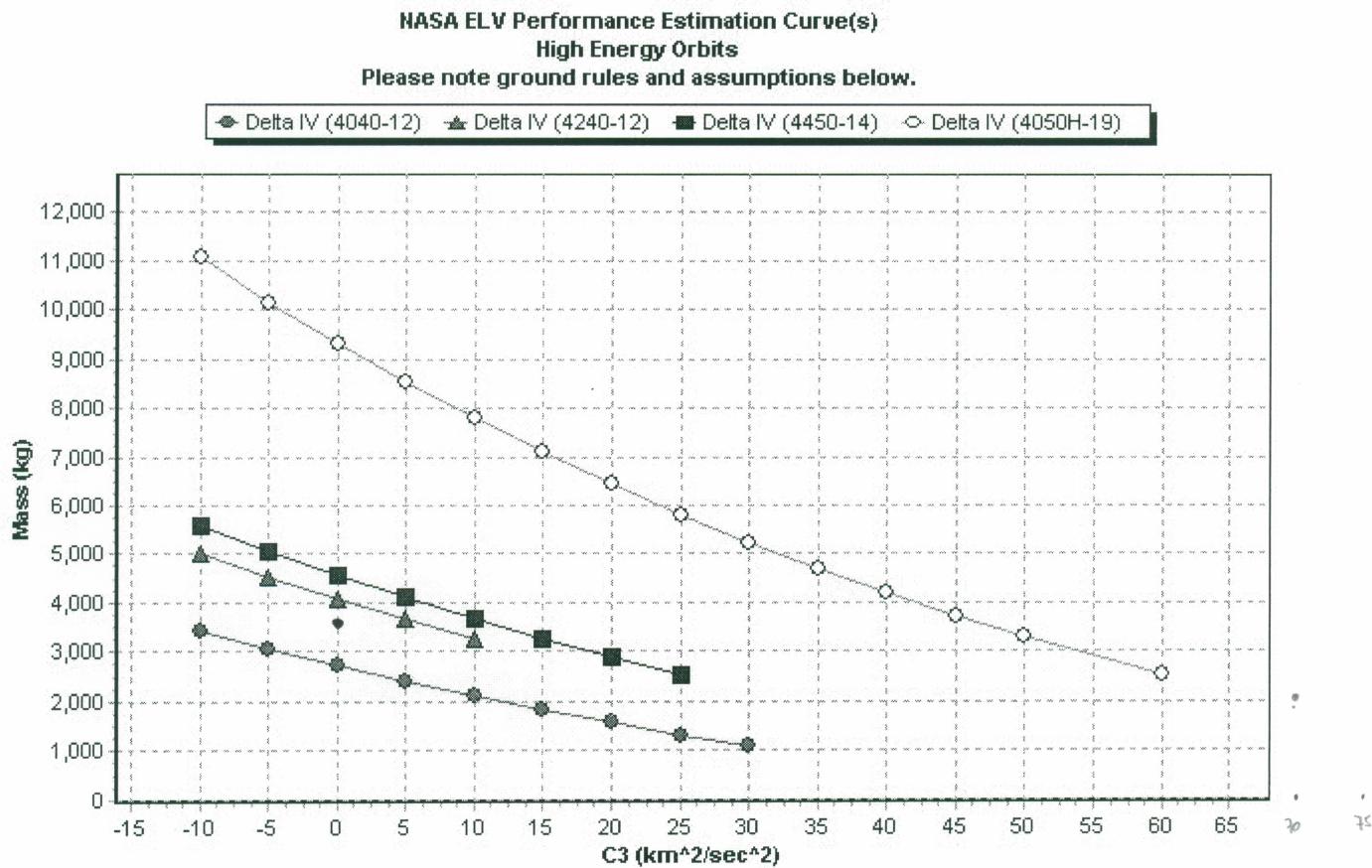
Last Updated: 7/3/01 4:31:20 PM

[Save Plot](#)[Print Plot](#)[New Graph](#)

## Performance Plot Results:



**Important Note:** The data contained in these curves are based on ground rules and assumptions located below the plot. Please read this information carefully. This information is intended for NASA customers only.



## Assumptions:

### Delta IV (4040-12)

- 3-sigma probability of Stage 2 commanded shutdown, plus additional reserves as determined by the LSP.
- 1194-4 payload adapter.
- Launch from SLC-37 at CCAFS (Cape Canaveral Air Force Station).
- 185 km (100 nmi) circular park orbit at 28.9 deg. inclination.
- 185 km (100 nmi) escape orbit perigee.
- Performance shown is applicable for declinations between 28.9 deg. and -28.9 deg.

Last Updated: 7/3/01 4:30:12 PM

### Delta IV (4240-12)

- 3-sigma probability of Stage 2 commanded shutdown, plus additional reserves as determined by the LSP.
- 1194-4 payload adapter.
- Launch from SLC-37 at CCAFS (Cape Canaveral Air Force Station).
- 185 km (100 nmi) circular park orbit at 28.9 deg. inclination.
- 185 km (100 nmi) escape orbit perigee.
- Performance shown is applicable for declinations between 28.9 deg. and -28.9 deg.

Last Updated: 7/3/01 4:30:49 PM

### Delta IV (4450-14)

- 3-sigma probability of Stage 2 commanded shutdown, plus additional reserves as determined by the LSP.
- 1194-5 payload adapter.
- Launch from SLC-37 at CCAFS (Cape Canaveral Air Force Station).

- 185 km (100 nmi) circular park orbit at 28.9 deg. inclination.
- 185 km (100 nmi) escape orbit perigee.
- Performance shown is applicable for declinations between 28.9 deg. and –28.9 deg.

Last Updated: 7/3/01 4:31:05 PM

**Delta IV (4050H-19)**

- 3-sigma probability of Stage 2 commanded shutdown, plus additional reserves as determined by the LSP.
- 1194-5 payload adapter.
- Launch from SLC-37 at CCAFS (Cape Canaveral Air Force Station).
- 185 km (100 nmi) circular park orbit at 28.9 deg. inclination.
- 185 km (100 nmi) escape orbit perigee.
- Performance shown is applicable for declinations between 28.9 deg. and –28.9 deg.

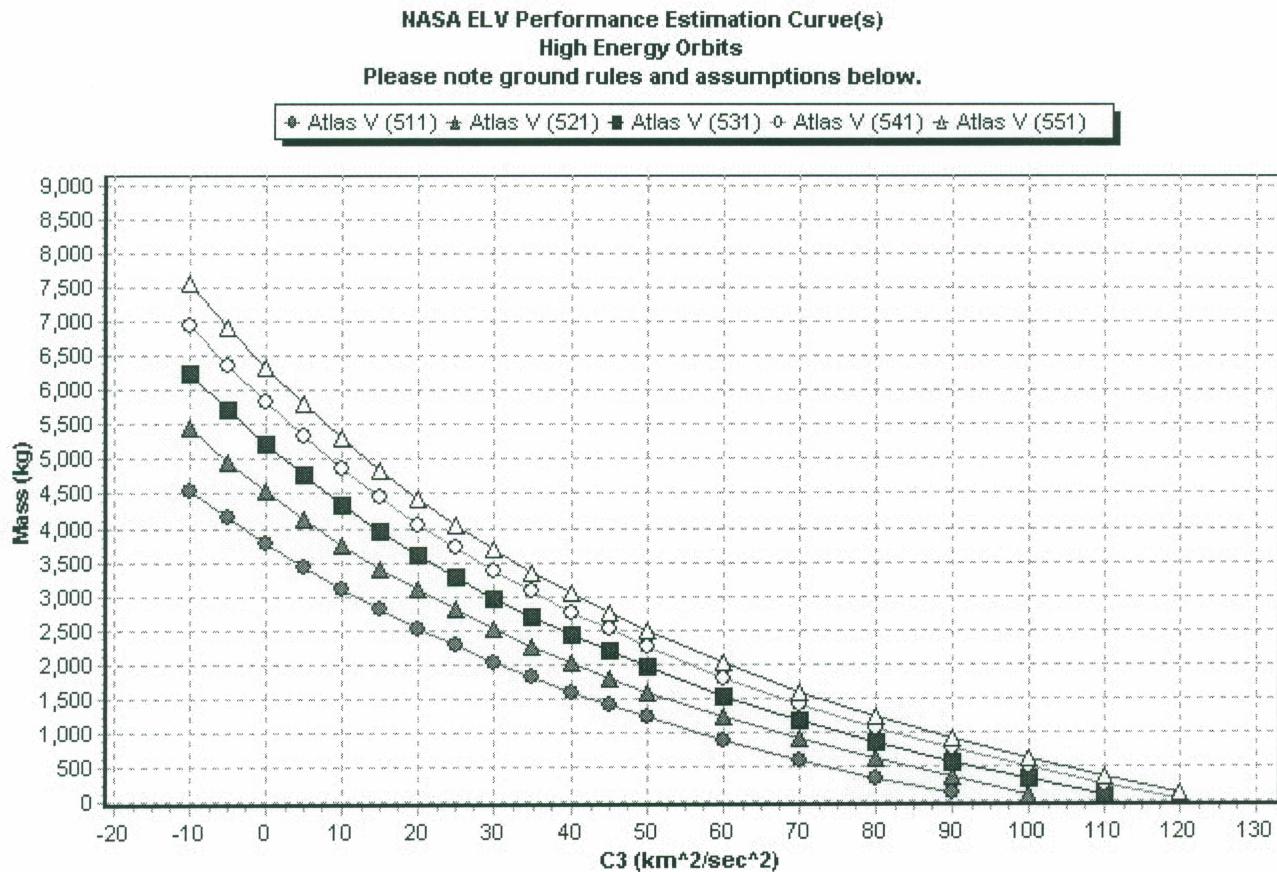
Last Updated: 7/3/01 4:31:20 PM

**Save Plot****Print Plot****New Graph**

## Performance Plot Results:



**Important Note:** The data contained in these curves are based on ground rules and assumptions located below the plot. Please read this information carefully. This information is intended for NASA customers only.



## Assumptions:

### Atlas V (511)

- 3-sigma mission required margin, plus additional reserves as determined by the LSP.
- Launch from SLC-41 at CCAFS (Cape Canaveral Air Force Station).
- Performance values assume harness, logo, reradiating antenna, 3 payload fairing doors.
- Payload mass greater than 9000 kg may require mission unique accommodations.
- Type B2 payload adapter plus type C2 spacer.
- 5-meter Short Payload Fairing.
- 185 km (100 nmi) minimum park orbit perigee altitude.
- 185 km (100 nmi) minimum escape orbit perigee altitude.
- Performance shown is applicable for declinations between 28.5 deg. and -28.5 deg.

Last Updated: 7/3/01 4:33:53 PM

### Atlas V (521)

- 3-sigma mission required margin, plus additional reserves as determined by the LSP.
- Launch from SLC-41 at CCAFS (Cape Canaveral Air Force Station).
- Performance values assume harness, logo, reradiating antenna, 3 payload fairing doors.
- Payload mass greater than 9000 kg may require mission unique accommodations.
- Type B2 payload adapter plus type C2 spacer.
- 5-meter Short Payload Fairing.
- 185 km (100 nmi) minimum park orbit perigee altitude.
- 185 km (100 nmi) minimum escape orbit perigee altitude.
- Performance shown is applicable for declinations between 28.5 deg. and -28.5 deg.

Last Updated: 7/3/01 4:34:09 PM

#### Atlas V (531)

- 3-sigma mission required margin, plus additional reserves as determined by the LSP.
- Launch from SLC-41 at CCAFS (Cape Canaveral Air Force Station).
- Performance values assume harness, logo, reradiating antenna, 3 payload fairing doors.
- Payload mass greater than 9000 kg may require mission unique accommodations.
- Type B2 payload adapter plus type C2 spacer.
- 5-meter Short Payload Fairing.
- 185 km (100 nmi) minimum park orbit perigee altitude.
- 185 km (100 nmi) minimum escape orbit perigee altitude.
- Performance shown is applicable for declinations between 28.5 deg. and -28.5 deg.

Last Updated: 7/3/01 4:34:24 PM

#### Atlas V (541)

- 3-sigma mission required margin, plus additional reserves as determined by the LSP.
- Launch from SLC-41 at CCAFS (Cape Canaveral Air Force Station).
- Performance values assume harness, logo, reradiating antenna, 3 payload fairing doors.
- Payload mass greater than 9000 kg may require mission unique accommodations.
- Type B2 payload adapter plus type C2 spacer.
- 5-meter Short Payload Fairing.
- 185 km (100 nmi) minimum park orbit perigee altitude.
- 185 km (100 nmi) minimum escape orbit perigee altitude.
- Performance shown is applicable for declinations between 28.5 deg. and -28.5 deg.

Last Updated: 7/3/01 4:34:39 PM

#### Atlas V (551)

- 3-sigma mission required margin, plus additional reserves as determined by the LSP.
- Launch from SLC-41 at CCAFS (Cape Canaveral Air Force Station).
- Performance values assume harness, logo, reradiating antenna, 3 payload fairing doors.
- Payload mass greater than 9000 kg may require mission unique accommodations.
- Type B2 payload adapter plus type C2 spacer.
- 5-meter Short Payload Fairing.
- 185 km (100 nmi) minimum park orbit perigee altitude.
- 185 km (100 nmi) minimum escape orbit perigee altitude.
- Performance shown is applicable for declinations between 28.5 deg. and -28.5 deg.

Last Updated: 7/3/01 4:34:56 PM

**Save Plot**

**Print Plot**

**New Graph**