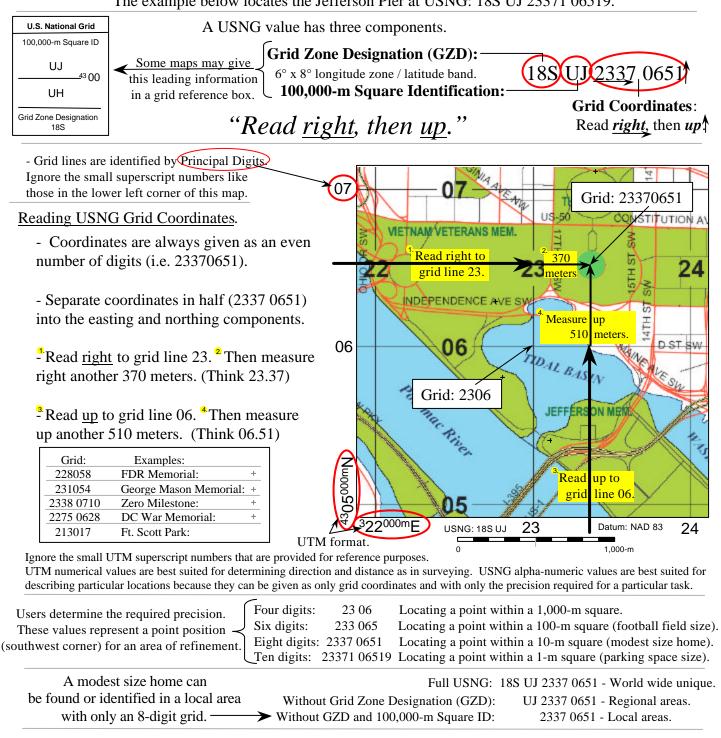
## Reading US National Grid (USNG) Coordinates: "Read right, then up."

Information Sheet 1 in this series.

FGDC-STD-011-2001

From www.fgdc.gov/usng

The example below locates the Jefferson Pier at USNG: 18S UJ 23371 06519.



This illustrates how USNG coordinates can be used in a phone directory or advertisement like a universal map index value. Unlike classic atlas grids (i.e. B3), these can be used with any paper map using the national grid and in web map portals such

as the Washington, DC GIS (http://dcgis.dc.gov) or The National Map. (http://nmviewogc.cr.usgs.gov/viewer.htm)	Point of Interest	Street Address	USNG Grid: 18S UJ	Telephone: (202)
They can also be used in consumer GPS receivers	Subway Sandwich & Salads	2030 M St., NW	2256 0826	223-2587
to directly guide you to the location. This is	Subway Sandwich & Salads	430 8th St., SE	2698 0567	547-8200
especially beneficial at night, in heavy traffic, or	Subway Sandwich & Salads	3504 12th St., NE	2740 1120	526-5999
	Subway Sandwich & Salads	1500 Benning Rd, NE	2815 0757	388-0421

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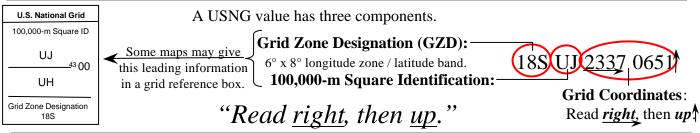
## US National Grid (USNG) Coordinates: World wide context.

Information Sheet 2 in this series.

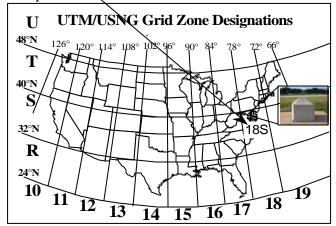
FGDC-STD-011-2001

From www.fgdc.gov/usng

The example below locates the Jefferson Pier at USNG: 18S UJ 23371 06519.

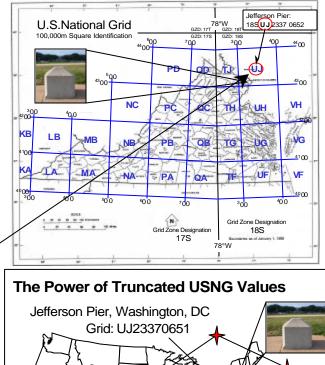


USNG values have three components as seen above. The GZD gives a USNG value world-wide context with 60 longitudinal zones each 6° wide. Zones 10 - 19 cover the conterminous US as seen below left. Zones are divided into 8° latitudinal bands. Together these make up Grid Zone Designations (GZD). Example: 18S



100,000-m Square Identifications Example: UJ

GZDs are further subdivided into large squares with 100,000-m Square Identifications. In this example, the Jefferson Pier is located in UJ. These squares are organized and lettered so they do not repeat themselves but every 18°, which is approximately 1,000 miles in the mid-latitudes. The illustration at right depicts how far one must go before the letters UJ repeat. This ensures a given value such as UJ 2337 0651 is unique out of the entire state it is located in, as well as all surrounding states.





In general, people can use the grid coordinates alone--for example: 233 065. Although the same numbers recurs about every 60 miles, normally that will cause no problem when the general location is understood. This is similar to the way you would tell someone only the last digits of a phone number when the area code is obvious. If there is a possibility of confusion include the letter pair too--for example: UJ 233 065. A letter pair recurs about every 1000 miles, so even in a disaster relief project there will be no other point with those coordinates in a local area. Full USNG coordinates such as 18S UJ 233 065 are worldwide unique. Typically a GPS or other electronic device requires coordinates in that form since unlike a human it doesn't intuitively understand the general location from context. You should always give full coordinates whenever abbreviated coordinates might not be clear or when listing them on letterhead, a business card or advertisement.