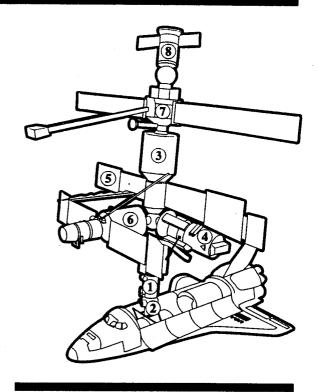
Shuttle Docking with Russian Mir Space Station

This configuration is a technical rendition of the Space Shuttle Atlantis docked to the (1) Kristall module of the Russian Mir Space Station. The STS-71/Mir Expedition 18 is a joint U.S. Russian mission scheduled for June 1995. The Space Shuttle/Mir combination is a part of the International Space Station, and will be the largest space platform ever assembled. The platform is shown overflying the Lake Baikal region of Russia.

The Space Shuttle Atlantis appears in a new configuration for the STS-71 flight. The Russian developed (2) Adrogynous Peripheral Docking System (APDS) is used to link the Orbiter to the Kristall module. The APDS is mounted atop a U.S. developed external airlock which connects to a modified tunnel section leading to Spacelab module in the far aft of the payload bay.

Mir is shown in its 6 module configuration. The Kristall module has rotated to the forward docking port of the (3)Mir Base Block to facilitate the docking of the Space Shuttle. The (4) Priroda module is shown extending over port wing of the Orbiter with its (5) solar panel in the retracted position required by the dynamics of Orbiter/Mir docking. The (6) Kvant 2 airlock module appears parallel to the Orbiter crew module, while the Spektr module (Not shown) is at the nadir and is hidden from view by the port solar panel of the Mir Base Block. The (7) Kvant module is shown at the aft of the Mir Base Block with solar panels of the Kristall module installed and fully extended. The (8) Soyuz TM transport vehicle used for the launch and docking of the Mir Expedition 18 crew is docked to Kvant.



Facts & Figures

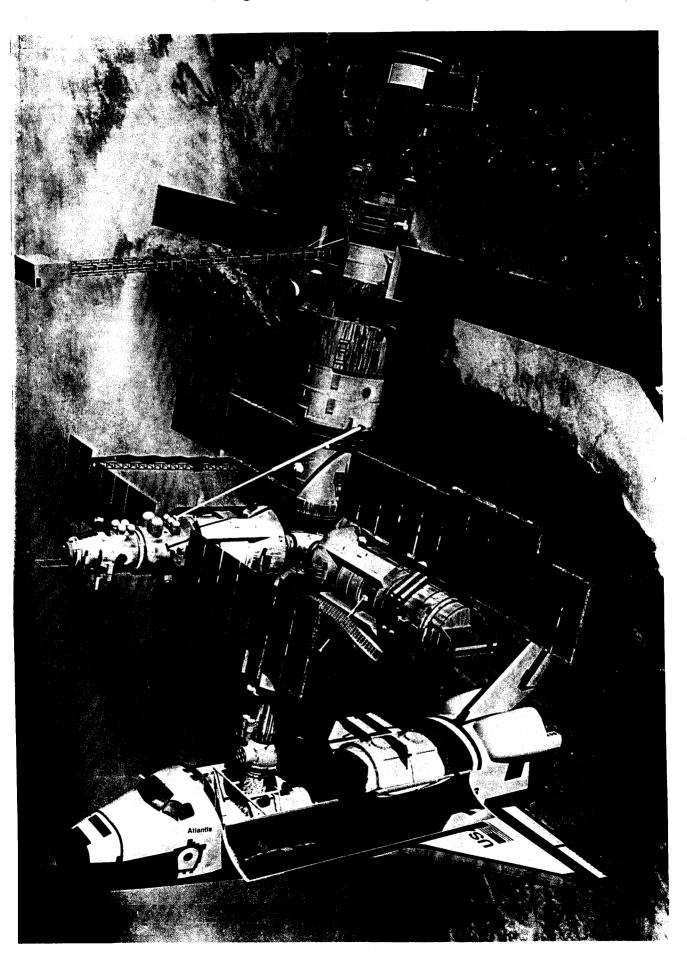
Mir's core module was launched in 1986. Three modules were added later: the Kvant (astrophysics), Kvant 2 (logistics) and Kristall (materials processing).

Unmanned resupply vehicles called *Progress* haul food, propellant and supplies to *Mir*. The *Progress* vehicles rendezvous and dock with *Mir* automatically with no crew involvement required.

Russia holds the endurance record for humans in space. One, two-person crew spent 365 days aboard *Mir*. A physician Cosmonaut who is currently aboard *Mir* will set a new record with 14 months in space.

Including STS-71, Space Shuttles will dock with the *Mir* space station seven to ten times from 1995 to 1997. U.S. astronauts will spend a total of two years on *Mir* in blocks of 90 days at a time.

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