

JET STREAM SOLAR POWER SATELLITE- JSSPS

WHAT IS A JET STREAM?

Jet streams are fast flowing, relatively narrow air currents found in the atmosphere at around 11 kilometres (36,000 ft) above the surface of the Earth, just under the tropopause. Jet streams are mainly found in the stratosphere. Their location is determined by differences in pressure between large masses of air. The major jet streams are westerly winds (flowing west to east) in both the Northern Hemisphere and the Southern Hemisphere. The path of the jet typically has a meandering shape as shown in Figure 1.

Airplane travelers experience the jet stream when the trip flying east to west takes longer than when flying west to east in the Northern hemisphere.

WHAT IS A JET STREAM SOLAR POWER SATELLITE?

The Jet Stream Solar Power Satellite is a dual use Satellite which can focus microwave energy into a jet stream to change the jet streams location and prevent it from remaining stationary for a long period of time.



**Solar Power Satellite
Beams microwaves
Between 50 and
100GHz to heat
gases
in Jet Stream**

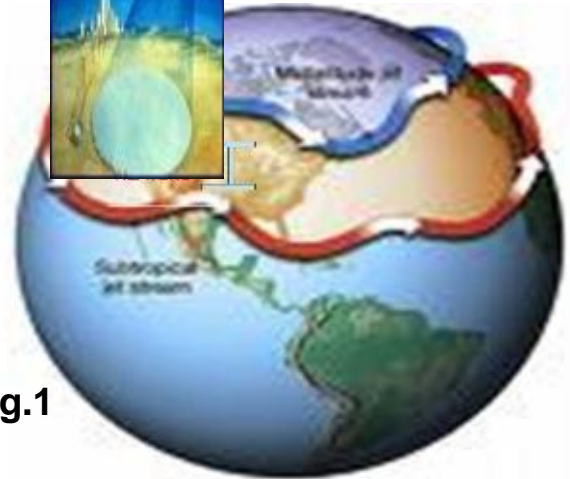
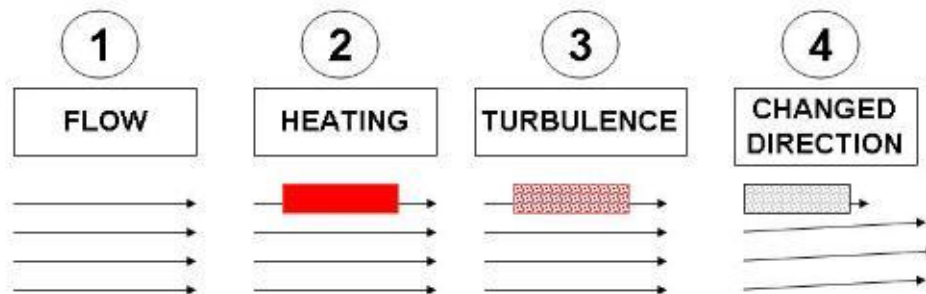


Fig.1

JET STREAMS AND WEATHER

The jet stream steers cyclonic storm systems at lower levels in the atmosphere, and so knowledge of their course has become an important part of weather forecasting. Jet streams also play an important part in the creation of supercells, the storm systems which create tornadoes. Major droughts and major floods can be associated with a jet stream remaining stationary for weeks at a time.

HOW CAN THE JET STREAM SOLAR POWER SATELLITE CHANGE THE DIRECTION OF A JET STREAM ?



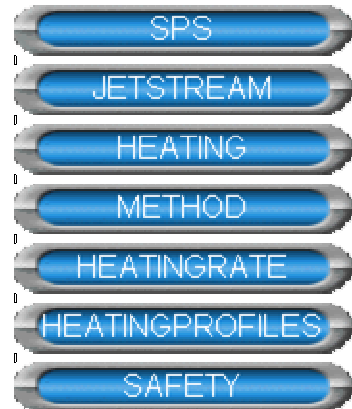
The Jet Stream Solar Power Satellite can change the direction of a jet stream. It does this by triggering turbulence in the flowing air which decreases the flow velocity of an edge region of the flow and generating a pressure differential that changes the direction of the bulk air flow. Step 1 depicts flow with arrows. Step 2 depicts Heating of a flow stream. Step 3 depicts triggering of turbulence. Step 4 depicts slowing of the stream of air (A shorter arrow) and

A change in direction of the jet stream arrows.**BENEFITS**

Reduce Flooding
Limit Droughts
Ease Severe Weather
Combat Effects of Global Warming

DOCUMENTATION

Solar Power Satellite
Jet Stream Characteristics
Atmospheric Heating With Microwaves
Method for Amplifying Heating Effects
Heating Rates in Air
Heating Profiles
Safety



Use the scroll bars to navigate the documentation

SUMMARY COMMENTS

This web site describes an apparatus and method for modifying the direction of a jet stream for beneficial effects of controlling droughts, floods and severe weather. It is the author's hope that this technology can help future generations in the amelioration of severe weather.

A solar power satellite won't be built for many years. However, it is our hope that this technology can be used for the benefit of mankind.

We are aware of the safety considerations and recommend that if research in this area is pursued, that it be under the National Academy of Science recommended guidelines for weather modification research.

This concept has been submitted to the patent office and a patent is pending.