

FOIA MARKER

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Global Climate: 1991 Temperatures

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✓ Ch. 21 Phil Jones 10.15.91

1990 did turn out to be the
warmest year

1991 - not quite as warm
will be 2nd or 3rd -- depending

when & perfect volcanic effects

yes
Spring of '92

up to $\sim 45^\circ$ or 50°

Observations - Spencer & Christy well known.
- maybe have Corley
were already due to Perseus.

effects don't really matter
when it's -- except above

Major difference between satellite &
surface is over oceans

Complementary to the surface data -- off-
the -

final IPCC report in Spring
Next year $\rightarrow$ beyond material
for MOD

Oak Ridge $\rightarrow$ report a/1990

Tom Boden temp.

time series & maps of anomalies

Last yr. March - Siberia

$10^{\circ}\text{C} = 18^{\circ}\text{F}$ $1.8 \times$ to convert

this is an extreme work,

but there has been continuous

warmin
Eurasia = most of warming

more than No. Am.

NO. Am pattern to be
warm over west

Colder Greenland, Iceland,
Newfoundland

in July (August - ice →
fewer clouds get there
'Cause don't have pressure
of deep water →

Cooler of nearly 2° since
1940's

30's & 40's dramatic
warming in Greenland

Still a bit warmer than had at
turn of century - old deep water forced that
80% of fresh water in Arctic from
Russian rivers → will reduce ice cap.

it is fresh -- it freezes --

USSR did not do this but Ch &

^{most warming}
China, Mongolia, USSR, East Europe

* Love Robinson - Snow cover
→ Rutgers - climatic
patterns - agrees w/
temp data.

* → Alaska glaciers & Canadian -
don't melt ~~to~~ warmer ~~to~~
but rainfall & expand.

Climate Research

U East An

Norwich

NR47TJ

Tom Boden -

4°C anomaly -

50-79 → have alot of data for this
period of time.

reference period

1854 - 1990

in both global & No. Hemisphere
records.

El Niño - Phil Jones that
~~El Niño~~