

ARMS 21

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CREATOR: Dana M. Perino (CN=Dana M. Perino/OU=CEQ/O=EOP [CEQ])

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SUBJECT:: EPW: CLIMATE CHANGE

TO: bholbrook@rnchq.org @ inet (bholbrook@rnchq.org @ inet [UNKNOWN])

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Michael_Catanzaro@epw.senate.gov (Michael Catanzaro)

04/01/2003 12:27:54 PM

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Subject: EPW: CLIMATE CHANGE

THE SCIENCE OF CLIMATE CHANGE

□ One of many natural factors affecting climate may be changes in the brightness of the Sun over decades to centuries. The magnetism on the Sun's surface is marked by the coverage of sunspots - cool areas of intense magnetic fields. The number of sunspots varies over an 11-year period. This magnetic cycle is linked to a brightening and fading in the Sun's total energy output. Solar brightness changes measuring a few tenths of a percent, sustained over decades, could drive global temperatures to change.

□ Assuming that the Sun's magnetic change is a proxy for the Sun's changing brightness, computer simulations of the climate suggest that a change of 0.4% in the Sun's brightness would produce observed global average temperature changes of about 0.5 C over the last 100 years. □
[From □ Increasing Carbon Dioxide and Global Climate Change, □ by Sallie Baliunas and Willie Soon; <http://www.marshall.org/article.php?id=13>]

Message Sent

To: _____

wbrough@cse.org

twinter@eaglepub.com

tripp.baird@heritage.org

trandall@winninggreen.com

tracey.shifflett@mail.house.gov
tagorman@mindspring.com
stephen_sepp@cornyn.senate.gov
stephen.sayle@dutkogroup.com
ssegal@bracepatt.com
shane.comeaux@msnbc.com
scott.rayder@noaa.gov
sbrown@dutkogroup.com
ryan_thompson@inhofe.senate.gov
robert.pollock@wsj.com
robert.hopkins@noaa.gov
robert_traynham@src.senate.gov (robert traynham)
rlong@nma.org
ray.fitzgerald@mail.house.gov
randy.randol@exxonmobil.com
ragon_gentry@inhofe.senate.gov
public.policy@verizon.net
philliar@cse.org
paul.morrell@hq.doe.gov
nschulz@techcentralstation.com
nick.reid@heritage.org
mwhitenton@nam.org
mmckenna@dutkogroup.com
mlewis@cei.org
mjbeer@wms-jen.com
mike@hardimanconsulting.com
menglehart@doc.gov
mebell@cei.org
matt.meagher@mail.house.gov
mark_pfeifle@ios.doi.gov
margaret_hemenway@rpc.senate.gov
larry.boggs@corporate.ge.com
kurt.christensen@mail.house.gov
kmccoy@nam.org
kim.strassel@wsj.com
ken_flanz@crapo.senate.gov
john_stoody@bond.senate.gov
john_peschke@rpc.senate.gov (john peschke)
joe@rpum.com
jmorgan9@ford.com
jmarks@nam.org
jgizzi@eaglepub.com
John D. Estes/WHO/EOP@EOP
jcahill@foleylaw.com
jack.victory@mail.house.gov
jack.belcher@mail.house.gov
hsills@starpower.net
harrison.lisa@epa.gov
glenn_powell@inhofe.senate.gov
gkelly@kellypublic.com
george_o'connor@craig.senate.gov
fmaisano@pcgpr.com
esteadman@celanese.com
driggs@capitalresearch.org
dridenour@nationalcenter.org
Dana M. Perino/CEQ/EOP@EOP
doug.heye@mail.house.gov
dewey.amy@epamail.epa.gov
denniss@prestongates.com
Debbie S. Fiddelke/CEQ/EOP@EOP

davidgilbert@constellation.com
danny_finnerty@inhofe.senate.gov
dan.skopec@mail.house.gov
dallen@nrsc.org
craig.montesano@noaa.gov
cohen@lexingtoninstitute.org
cmitchell@foleylaw.com
chris.fluhr@mail.house.gov
chorner@cei.org
charli.coon@heritage.org
chad_bradley@inhofe.senate.gov (chad bradley)
celia_wallace@thomas.senate.gov
cburger@nationalcenter.org
brian_mormino@voinovich.senate.gov
bob.ferguson@mail.house.gov
bmoran@fabmac.com
blibro@mnpower.com
bill.koetzle@mail.house.gov
bholbrook@rnchq.org
aridenour@nationalcenter.org
alynn@rnchq.org
al.cobb@hq.doe.gov
susan_wheeler@crapo.senate.gov
scott_milburn@voinovich.senate.gov
meredith_moseley@warner.senate.gov
marcie_ridgway@voinovich.senate.gov
jared_young@epw.senate.gov
genevieve_erny@epw.senate.gov
ernie_blazar@bond.senate.gov
don_stewart@cornyn.senate.gov
dick_wadhams@allard.senate.gov
chuck_kleeschulte@murkowski.senate.gov
carrie_sloan@thomas.senate.gov
Andrew_Wheeler@epw.senate.gov (Andrew Wheeler)
Michael_Whatley@epw.senate.gov (Michael Whatley)
Aloysius_Hogan@epw.senate.gov (Aloysius Hogan)