

Delivered-To: rick.lumpkin@noaa.gov
Received: by 10.182.237.137 with SMTP id vc9csp40374obc;
Mon, 15 Oct 2012 13:22:06 -0700 (PDT)
Received: by 10.66.78.136 with SMTP id b8mr35910139pax.26.1350332526047;
Mon, 15 Oct 2012 13:22:06 -0700 (PDT)
Return-Path: <steve.piotrowicz@noaa.gov>
Received: from psmtplib.com (na3sys009amx169.postini.com [74.125.149.95])
by mx.google.com with SMTP id
yl9si8125654pbc.92.2012.10.15.13.22.05
(version=TLSv1/SSLv3 cipher=OTHER);
Mon, 15 Oct 2012 13:22:06 -0700 (PDT)
Received-SPF: neutral (google.com: 74.125.149.67 is neither permitted nor
denied by best guess record for domain of steve.piotrowicz@noaa.gov)
client-ip=74.125.149.67;
Authentication-Results: mx.google.com; spf=neutral (google.com:
74.125.149.67 is neither permitted nor denied by best guess record for
domain of steve.piotrowicz@noaa.gov) smtp.mail=steve.piotrowicz@noaa.gov
Received: from na3sys009aogl101.obsmtplib.com ([74.125.149.67]) (using TLSv1)
by na3sys009amx169.postini.com ([74.125.148.10]) with SMTP;
Mon, 15 Oct 2012 13:22:05 PDT
Received: from mail-oa0-f54.google.com ([209.85.219.54]) (using TLSv1) by
na3sys009aob101.postini.com ([74.125.148.12]) with SMTP
ID DSNKUHxwbF/nyKvtauY/pyo0wtQaSCSe7hCu@postini.com; Mon, 15 Oct
2012 13:22:05 PDT
Received: by mail-oa0-f54.google.com with SMTP id n9so7244550oag.13
for <rick.lumpkin@noaa.gov>; Mon, 15 Oct 2012 13:22:04 -0700 (PDT)
X-Google-DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=google.com; s=20120113;

h=mime-version:in-reply-to:references:date:message-id:subject:from:to
:cc:content-type:x-gm-message-state;
bh=K3vx6g4WGUAcCZYRCFW2zljAFPBEWl2DeXFvYXoS5fY=;

b=jo6xVGsM+4EJfhFs9SOmo8+vI6bDxZ0eHyghSo/hZ0QXiQ45YcI96uoDiTl663vTZ5
MQmE6tlfYM7Da6IjkN8uRNxg9IXYAf/23cnr+632jU12QB71a5f1Y9QhwNj7Utu0/9Mr
DsIUehCKUXmEJn1HHRkCTabIgtvQAYSdBsNzddFDuJI0kWXTSjKZsOY9nBYkALwfeO1J
2jQ+gRl8F5WkU0qGeU11HPqpc0kQm7r/lqDepNpKlHwz1jhe3TwAYFbLUcQIbUnnJ516
zy3kYOLpjyqd36H5E0fAiMc7/VGT5EX6miQBNv15PZwY0x2afVR8xCi48JE0CHaVuK72
BlyA==

MIME-Version: 1.0
Received: by 10.182.10.6 with SMTP id e6mr10531478obb.16.1350332524399;
Mon,
15 Oct 2012 13:22:04 -0700 (PDT)
Received: by 10.182.237.201 with HTTP; Mon, 15 Oct 2012 13:22:04 -0700 (PDT)
In-Reply-To: <507C6F30.9040607@noaa.gov>
References:
<CAGcXJNejiAZCmecScW205CsOXzd+zEcSX+OVhNcrvTj9BBmwwA@mail.gmail.com>
<CACz524PLBJeHCMqyjeNhu0iCS2LcHMo--MAzPmijYgVtQOTz6g@mail.gmail.c

om>
<CACz5240sUyp9stsLe_a9_BKR8dDVPxyr+OU7QtAvq6_ti_5B8A@mail.gmail.c
om>

<507C6F30.9040607@noaa.gov>
Date: Mon, 15 Oct 2012 16:22:04 -0400
Message-ID:
<CACz524MFh9tzCCteAKMiEOmYuSE-fJTxiSQeU55-hqNf03G=qA@mail.gmail.com>
Subject: Re: Fwd: Media request -- NY Times
From: Steve Piotrowicz <steve.piotrowicz@noaa.gov>
To: "Rick.Lumpkin@noaa.gov" <rick.lumpkin@noaa.gov>
Cc: Candyce Clark <candyce.clark@noaa.gov>
Content-Type: multipart/alternative;
boundary=f46d04446911720bec04cc1ecab1
X-Gm-Message-State:
ALoCoQm0dyb9UVm3LRgnLQC/2MxTvQl37DuXW3U8n1n/5Hg5I5CHts6CxAK1HLbzyC0+zG
+yBMCJ
X-pstn-neptune: 0/0/0.00/0
X-pstn-levels: (S:99.90000/99.90000 CV:99.9000 FC:95.5390 LC:95.5390
R:95.9108 P:95.9108 M:97.0282 C:98.6951)
X-pstn-dkim: 0 skipped:not-enabled
X-pstn-settings: 1 (0.1500:0.0015) cv GT3 gt2 gt1 r p m c
X-pstn-addresses: from <steve.piotrowicz@noaa.gov> [db-null]
X-pstn-nxpr: disp=neutral, envrcpt=rick.lumpkin@noaa.gov
X-pstn-nxp: bodyHash=496164f19403d1a096c9ac47fd7002dd854a755e,
headerHash=9c40c056d34831f9c177a5ffba016ab29599607a, keyName=4,
rcptHash=9ed437bb2697b93b6e27fc1698c05229f9e0ed45,
sourceip=74.125.149.67, version=1

--f46d04446911720bec04cc1ecab1
Content-Type: text/plain; charset=ISO-8859-1

That is good to know.

Steve

On Mon, Oct 15, 2012 at 4:16 PM, Rick.Lumpkin@noaa.gov <
rick.lumpkin@noaa.gov> wrote:

> Thanks for update, Steve. The drifters deployed were all barometer
> drifters - we previously had quite a large gap in the North Pacific, so
> this cruise seemed to offer a good chance to reseed the area for NWP as
> well as ocean monitoring efforts.

>
> Rick
>

> On 10/15/2012 04:13 PM, Steve Piotrowicz wrote:

>
>> This has now gotten to the NY Times.

>>
>> I am still working it.

>>
>> Steve

>>
>> ----- Forwarded message -----
>> From: *Steve Piotrowicz* <steve.piotrowicz@noaa.gov <mailto:
>> steve.piotrowicz@noaa.**gov <steve.piotrowicz@noaa.gov>>>
>> Date: Mon, Oct 15, 2012 at 4:05 PM
>> Subject: Re: Media request -- NY Times
>> To: Linda Joy <linda.joy@noaa.gov <mailto:linda.joy@noaa.gov>>
>> Cc: Diane Stanitski <diane.stanitski@noaa.gov <mailto:
>> diane.stanitski@noaa.**gov <diane.stanitski@noaa.gov>>>, David Legler
<
>> david.legler@noaa.gov <mailto:david.legler@noaa.gov>>>, Jana Goldman
<
>> jana.goldman@noaa.gov <mailto:jana.goldman@noaa.gov>>>, Caitlyn H
>> Kennedy <caitlyn.kennedy@noaa.gov
<mailto:caitlyn.kennedy@noaa.**gov<caitlyn.kennedy@noaa.gov>
>> >>
>>
>>
>> Linda, there is confusion between the Argo profiling float program and
>> the ARGOS satellite Data Collection System-geolocation system.
>>
>> What the article is referring to are ARGOS-equipped surface drifting
>> buoys (drift at the surface transmitting data hourly) not profiling
>> floats.
>> Drifting buoys primarily provide in situ Sea Surface Temperature
>> observations which are used, primarily, to calibrate and validate
>> remotely-sensed SST. The in situ data, and the remotely-sensed data,
>> are
>> combined into a blended, global SST product which is used by operational
>> weather centers for incorporation into their models. Surface
>> velocities
>> (currents) are obtained from displacements of the buoys using the
>> satellite
>> geolocation system on the ARGOS DCS. Some drifters may be equipped with
>> GPS but you do not need it because the satellite position (a doppler
>> technique) is more than adequate for trajectory work. GPS requires a
>> separate antenna so even though a GPS system is relatively inexpensive
>> the
>> extra antenna is an added failure mode. Some drifters are also equipped
>> to
>> measure sea level pressure but not all drifters have this capability
>> - it
>> is expensive to implement and is only really necessary in truly remote
>> oceanic regions like the southern ocean.
>>
>> Profiling floats drift at 1,000 meters depth and only come to the surface
>> every ten days to transmit data.
>>
>> ARGOS is a Joint Program (MOU) between NESDIS and CNES (Centre Nationale
>> d'Etudes Spatiales) of France. I do not know who is the Program Manager
>> at
>> NESDIS fro ARGOS today (it used to be Chris O'Connors).

>>
>> They can provide the details on how the program is operated and how the
>> data is shared. The data from drifting buoys (and many other systems)
is
>> free and openly available in real time for operational purposes like
>> weather prediction and ocean state estimation.
>>
>> Steve
>>
>> On Mon, Oct 15, 2012 at 3:45 PM, Linda Joy <linda.joy@noaa.gov <mailto:
>> linda.joy@noaa.gov>> wrote:
>>
>> Diane, David, and Steve,
>>
>> I'm writing from the OAR public affairs office where work with Jana
>> Goldman. I just took a media request from a New York Times reporter
>> who has some basic Argos questions -- who runs the program, how,
and
>> with whom is data shared. The context is that earlier today The UK
>> Guardian newspaper ran a story on "the world's biggest
geoengineering
>> experiment." You can see it here:
>> >> substantial ocean restoration project in history," and has
collected a
>> "greater density and depth of scientific data than ever before".
>>
>> The New York Times reporter is trying to assess whether this could
be
>> true. He seemed skeptical about that claim and would like to learn
>> about the program. Could you recommend who might be best at NOAA
for
>> him to speak with and let me know? Give me a call if you like --
>> 301-734-1165 <tel:301-734-1165>.
>>
>> thanks!
>> Linda
>>
>>

>> --
>> -----**-----
>> Linda Joy
>> NOAA Research Public Affairs
>> linda.joy@noaa.gov <mailto:linda.joy@noaa.gov>
>> 301-734-1165 <tel:301-734-1165>
>> www.research.noaa.gov <http://www.research.noaa.gov>
>> -----**-----

>>
>>
>>

>> --
>> Stephen R. Piotrowicz
>> Oceanographer
>> NOAA/OAR/CPO/COD
>> Silver Spring, MD USA 20910
>> Tel.: (+1) 301-427-2493 <tel:%28%2B1%29%20301-427-2493>

>>
>>
>>

>> --
>> Stephen R. Piotrowicz
>> Oceanographer
>> NOAA/OAR/CPO/COD
>> Silver Spring, MD USA 20910
>> Tel.: (+1) 301-427-2493

>>
>>
>

--
Stephen R. Piotrowicz
Oceanographer
NOAA/OAR/CPO/COD
Silver Spring, MD USA 20910
Tel.: (+1) 301-427-2493

--f46d04446911720bec04cc1ecab1
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

That is good to know.

Steve

<div class=3D"gmail_quote">On
Mon=
, Oct 15, 2012 at 4:16 PM, Rick.Lu=
mpkin@noaa.gov <<a
href=3D"mailto:rick.lumpkin@noa=
a.gov" target=3D"_blank">rick.lumpkin@noaa.gov>
wrote:

`<blockquote class="gmail_quote" style="margin:0 0 0 .8ex;border-left:1px solid black; padding-left:1ex">`Thanks for update, Steve. The drifters deployed were all barometer drifters - we previously had quite a large gap in the North Pacific, so this cruise seemed to offer a good chance to reseed the area for NWP as well as ocean monitoring efforts.

Rick

On 10/15/2012 04:13 PM, Steve Piotrowicz wrote:
<blockquote class="gmail_quote" style="margin:0 0 0 .8ex;border-left:1px solid black; padding-left:1ex">

This has now gotten to the NY Times.

I am still working it.

Steve

----- Forwarded message -----

From: *Steve Piotrowicz* <steve.piotrowicz@noaa.gov> <<mailto:steve.piotrowicz@noaa.gov>>
target="blank">steve.piotrowicz@noaa.gov <<mailto:steve.piotrowicz@noaa.gov>>
target="blank">steve.piotrowicz@noaa.gov>

Date: Mon, Oct 15, 2012 at 4:05 PM

Subject: Re: Media request -- NY Times

To: Linda Joy <linda.joy@noaa.gov> <<mailto:linda.joy@noaa.gov>>
target="blank">linda.joy@noaa.gov <<mailto:linda.joy@noaa.gov>>
target="blank">linda.joy@noaa.gov>>

Cc: Diane Stanitski <diane.stanitski@noaa.gov> <<mailto:diane.stanitski@noaa.gov>>
target="blank">diane.stanitski@noaa.gov <<mailto:diane.stanitski@noaa.gov>>
target="blank">diane.stanitski@noaa.gov>>

, David Legler <david.legler@noaa.gov> <<mailto:david.legler@noaa.gov>>
target="blank">david.legler@noaa.gov <<mailto:david.legler@noaa.gov>>
target="blank">david.legler@noaa.gov>>

, Jana Goldman <jana.goldman@noaa.gov>

target=3D"_blank"=
>jana.goldman@noaa.gov <mailto:<a
href=3D"mailto:jana.goldman@noaa.g=
ov" target=3D"_blank">jana.goldman@noaa.gov><u></u>>; Caitlyn
H K=
ennedy <<a href=3D"mailto:caitlyn.kennedy@noaa.gov"
target=3D"_blank">ca=
itlyn.kennedy@noaa.gov <mailto:<a
href=3D"mailto:caitlyn.kennedy@noaa=
a.gov"
target=3D"_blank">caitlyn.kennedy@noaa.<u></u>gov>>

Linda, there is confusion between the Argo profiling float program and the
=

ARGOS satellite Data Collection System-geolocation system.

What the article is referring to are ARGOS-equipped surface drifting buoys
=

(drift at the surface transmitting data hourly) not profiling floats.

=A0Dr=

ifting buoys primarily provide in situ Sea Surface Temperature
observations=

which are used, primarily, to calibrate and validate remotely-sensed SST.
=

=A0The in situ data, and the remotely-sensed data, are combined into a blen=
ded, global SST product which is used by operational weather centers for
in=

corporation into their models. =A0Surface velocities (currents) are
obtaine=

d from displacements of the buoys using the satellite geolocation system
on=

the ARGOS DCS. =A0Some drifters may be equipped with GPS but you do not
ne=

ed it because the satellite position (a doppler technique) is more than
ade=

quate for trajectory work. =A0GPS requires a separate antenna so even thoug=
h a GPS system is relatively inexpensive the extra antenna is an added fail=
ure mode. =A0Some drifters are also equipped to measure sea level pressure
=

but not all drifters have this capability - it is expensive to implement
an=

d is only really necessary in truly remote oceanic regions like the souther=
n ocean.

Profiling floats drift at 1,000 meters depth and only come to the surface
e=

very ten days to transmit data.

ARGOS is a Joint Program (MOU) between NESDIS and CNES (Centre Nationale

d&= #39;Etudes Spatiales) of France. =A0I do not know who is the Program Manage= r at NESDIS fro ARGOS today (it used to be Chris O'Connors).

 They can provide the details on how the program is operated and how the dat= a is shared. =A0The data from drifting buoys (and many other systems) is fr= ee and openly available in real time for operational purposes like weather = prediction and ocean state estimation.

 Steve

On Mon, Oct 15, 2012 at 3:45 PM, Linda Joy <linda.joy@noaa.gov <mailto:linda.joy@noaa.gov>> w= rote:

 =A0 =A0 Diane, David, and Steve,

 =A0 =A0 I'm writing from the OAR public affairs office where work with = Jana
 =A0 =A0 Goldman. I just took a media request from a New York Times reporter=
 =A0 =A0 who has some basic Argos questions -- who runs the program, how, an= d
 =A0 =A0 with whom is data shared. The context is that earlier today The UK<= br> =A0 =A0 Guardian newspaper ran a story on "the world's biggest geo= engineering
 =A0 =A0 experiment." You can see it here:
 =A0 =A0 http://www.guardian.= co.uk/<u></u>environment/2012/oct/15/<u></u>pacific-iron-fertilisation -<u><= /u>geoengineering.

 =A0 =A0 The person who conducted this experiement says, in the article,

 =A0 =A0 ... his team of unidentified scientists has been monitoring the

=A0 =A0 results of the biggest ever geoengineering experiment with
equipmen=
t

=A0 =A0 loaned from US agencies like Nasa and the National Ocean and

=A0 =A0 Atmospheric Administration. He told the Guardian that it is the
&qu=
ot;most

=A0 =A0 substantial ocean restoration project in history," and has
col=
lected a

=A0 =A0 "greater density and depth of scientific data than ever before=
".

=A0 =A0 The New York Times reporter is trying to assess whether this could
=
be

=A0 =A0 true. He seemed skeptical about that claim and would like to learn<=
br>
=A0 =A0 about the program. Could you recommend who might be best at NOAA
fo=
r

=A0 =A0 him to speak with and let me know? Give me a call if you like --<br=
>
=A0 =A0 <a href=3D"tel:301-734-1165" value=3D"+13017341165"
target=3D"_blan=
k">301-734-1165 <tel:<a href=3D"tel:301-734-1165"
value=3D"+13017341=
165" target=3D"_blank">301-734-1165>.

=A0 =A0 thanks!

=A0 =A0 Linda

=A0 =A0 --

=A0 =A0
-----<u></u>-----<b=
r>
=A0 =A0 Linda Joy

=A0 =A0 NOAA Research Public Affairs

=A0 =A0 <a href=3D"mailto:linda.joy@noaa.gov"
target=3D"_blank">linda.joy@n=
oaa.gov <mailto:<a href=3D"mailto:linda.joy@noaa.gov"
target=3D"_bla=
nk">linda.joy@noaa.gov>

=A0 =A0 <a href=3D"tel:301-734-1165" value=3D"+13017341165"
target=3D"_blan=
k">301-734-1165 <tel:<a href=3D"tel:301-734-1165"
value=3D"+13017341=
165" target=3D"_blank">301-734-1165>

=A0 =A0 <a href=3D"http://www.research.noaa.gov"
target=3D"_blank">www.rese=
arch.noaa.gov <<a href=3D"http://www.research.noaa.gov"

target=3D" b=
lank">http://www.research.noaa.gov>

=A0 =A0
-----<u></u>-----

--

Stephen R. Piotrowicz

Oceanographer

NOAA/OAR/CPO/COD

Silver Spring, MD =A0USA =A0 20910

Tel.: <a href=3D"tel:%28%2B1%29%20301-427-2493" value=3D"+13014272493"
targ=
et=3D"_blank">(+) 301-427-2493
<tel:%28%2B1%29%20301-427-2493<u></u>249=
3>

--

Stephen R. Piotrowicz

Oceanographer

NOAA/OAR/CPO/COD

Silver Spring, MD =A0USA =A0 20910

Tel.: =A0<a href=3D"tel:%28%2B1%29%20301-427-2493"
value=3D"+13014272493" t=
arget=3D"_blank">(+) 301-427-2493

</blockquote>

</blockquote></div>
<br clear=3D"all">
--
Stephen R.
Piotrowicz<b=
r>Oceanographer
NOAA/OAR/CPO/COD
Silver Spring, MD=A0 USA=A0=A0
20910=

Tel.: =A0 (+1) 301-427-2493

--f46d04446911720bec04cc1ecab1--