```
Delivered-To: rick.lumpkin@noaa.gov
Received: by 10.182.237.137 with SMTP id vc9csp51353obc;
        Tue, 16 Oct 2012 12:20:43 -0700 (PDT)
Received: by 10.66.73.226 with SMTP id o2mr44103225pav.83.1350415243507;
        Tue, 16 Oct 2012 12:20:43 -0700 (PDT)
Return-Path: <jana.goldman@noaa.gov>
Received: from psmtp.com (na3sys009amx165.postini.com [74.125.149.91])
        by mx.google.com with SMTP id
ax10si27216196pbd.194.2012.10.16.12.20.42
        (version=TLSv1/SSLv3 cipher=OTHER);
        Tue, 16 Oct 2012 12:20:43 -0700 (PDT)
Received-SPF: neutral (google.com: 74.125.149.18 is neither permitted nor
denied by best guess record for domain of jana.goldman@noaa.gov)
client-ip=74.125.149.18;
Authentication-Results: mx.google.com; spf=neutral (google.com:
74.125.149.18 is neither permitted nor denied by best guess record for
domain of jana.goldman@noaa.gov) smtp.mail=jana.goldman@noaa.gov
Received: from na3sys009aog137.obsmtp.com ([74.125.149.18]) (using TLSv1)
by na3sys009amx165.postini.com ([74.125.148.10]) with SMTP;
      Tue, 16 Oct 2012 19:20:43 GMT
Received: from mail-qa0-f52.google.com ([209.85.216.52]) (using TLSv1) by
na3sys009aob137.postini.com ([74.125.148.12]) with SMTP
      ID DSNKUH2zipRrbbwV/ixV/SFRYmD66aVHW8T7@postini.com; Tue, 16 Oct
2012 12:20:42 PDT
Received: by mail-qa0-f52.google.com with SMTP id g24so293530qab.18
        for <rick.lumpkin@noaa.gov>; Tue, 16 Oct 2012 12:20:41 -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=LKwRR3lb+BRa45Jr3nSKlvpqQWT8Z3Ar8Y9FLRqwjdk=;

b=XpgZJ04Fkqqqew4u+4hk3DZUi0MUcoQMMd+0NUos/LTyE68n5D+dMIDwKbu7ODwPo7

/xHF9cl3gO0zR+Q3o/X6ueMv24sdABgj0Enj3/mSPwQrqGUaG0LTFBCwKtFt0RNw9/wE

gPow2IQ5WQJTTuVYvv6R4DD/7tDYR6oCQtbG55+7MVslrpxxcyXJeRxNrS1sB+VcmwMS

lLQRDa0AOZedY0kgucbGe3gaXUHQDE7MM+wIRrcu5DpBwvdipJfMp+EbJgjVfZcXMf0E

UasajV78LmokZWIR8hWwF0Ess2LjZALLf2oQsVnDbH84ZnPEukQSKak+oOON2k7FsI9D
         aJXQ==
MIME-Version: 1.0
Received: by 10.229.196.2 with SMTP id ee2mr7683677qcb.143.1350415241247;
Tue,
 16 Oct 2012 12:20:41 -0700 (PDT)
Received: by 10.224.133.75 with HTTP; Tue, 16 Oct 2012 12:20:41 -0700 (PDT)
In-Reply-To: <507DB340.4050509@noaa.gov>
References:
<CAHw8FPXqUPyWX5bfnMgxnBYAFpgGZTPXz7YSjFMCmpZB64Aang@mail.gmail.com>
     <CAD3qo3nSB8Rmn8yN5mm5am-T4EzygXwOUUBZVmdS3wi8gfYECg@mail.gmail.c
```

om>
        <CAD3qo3m8Lt13pYSR6GLcL23vOqpstO_dXFdRULP8F09+8cBLsQ@mail.gmail.c
om>
        <507DAF60.3010105@noaa.gov>
        <CAHw8FPUu2AZiVs5Qs65f-xdFTB6P1+jauzz680Vma31aWRWYhA@mail.gmail.c
om>
        <507DB340.4050509@noaa.gov>
Date: Tue, 16 Oct 2012 15:20:41 -0400
Message-ID:
<CAHw8FPVNm-jkt_fTMZRVcCSejz1radGadUD4xHPzdL3SiEnXzg@mail.gmail.com>
Subject: Re: Fwd: Drifter issue heads up
From: Jana Goldman <jana.goldman@noaa.gov>
To: "Rick.Lumpkin@noaa.gov" <rick.lumpkin@noaa.gov>
Cc: Erica Rule <Erica.Rule@noaa.gov>
Content-Type: multipart/alternative;
boundary=0016e68dbd9dc0fb0c04cc320c50
X-Gm-Message-State:
ALoCoQmv5uTVztihk3TqPOgka+9TOpm44naffMxphOuMXLCBu7WDZ1KF1C9rc5DbN2S0KR
6BNDoc
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 <jana.goldman@noaa.gov> [db-null]
X-pstn-nxpr: disp=neutral, envrcpt=rick.lumpkin@noaa.gov
X-pstn-nxp: bodyHash=2c62deb9baa0461df400630790b3fabee25d9f7b,
headerHash=78c9dac6472e60d5bf386ce3ed25f05c9629fc62, keyName=4,
rcptHash=9ed437bb2697b93b6e27fc1698c05229f9e0ed45,
sourceip=74.125.149.18, version=1

--0016e68dbd9dc0fb0c04cc320c50
Content-Type: text/plain; charset=ISO-8859-1

Thanks for the helpful explanation --and the swift response!
cheers
jana

On Tue, Oct 16, 2012 at 3:19 PM, Rick.Lumpkin@noaa.gov <
rick.lumpkin@noaa.gov> wrote:

> Hi Jana,
>
> We try to maintain an open-ocean global array at roughly 5x5 resolution,
> so in the past we've turned down deployment opportunities, or donated
only
> a small number of drifters, for deployments in semi-closed seas. We've
> turned down opportunities when it was clearly not in the interest of the
> program. Our guiding criterion for these efforts has always been: will
> these deployments help the array and the program?
>
> I have referred to the people and organizations that deploy drifters for

```
> us as "partners", but we've never had any formal legal agreements (no
MoUs,
> etc.).  Deployments have always been arranged under the understanding
that
> the observations are for the mutual benefit of both the drifter program
and
> the people doing the deployments.  For example, shipping companies are
> willing to have their crew deploy drifters from cargo ships because the
> data are used to improve weather forecasts; ocean researchers are willing
> to deploy them because their data can help understand circulation
patterns.
>
>     Regards,
>     Rick
>
> On 10/16/2012 03:06 PM, Jana Goldman wrote:
>
>> Thanks for this, Rick.
>> I was asked if we have a protocol when offered opportunities to deploy
>> drifters.
>> cheers
>> jana
>>
>> On Tue, Oct 16, 2012 at 3:02 PM, Rick.Lumpkin@noaa.gov <mailto:
>> Rick.Lumpkin@noaa.gov> <rick.lumpkin@noaa.gov <mailto:
>> rick.lumpkin@noaa.gov>**> wrote:
>>
>>     Dear all,
>>
>>     Please find attached a copy of the letter I just sent to Richard
>>     Mannix (General Council Office) summarizing our involvement with
>>     the interaction.  Richard contacted me earlier today to get these
>>     details.
>>
>>         Best regards,
>>         Rick Lumpkin
>>
>>     On 10/16/2012 02:52 PM, Erica Rule wrote:
>>
>>         Hi Rick - Here's what I sent to Jana et al, can you please
>>         forward them the details in your summary of the interaction?
>>         thanks, Erica
>>
>>         ---------- Forwarded message ----------
>>         From: *Erica Rule* <erica.rule@noaa.gov
>>         <mailto:erica.rule@noaa.gov> <mailto:erica.rule@noaa.gov
>>         <mailto:erica.rule@noaa.gov>>>
>>         Date: Tue, Oct 16, 2012 at 2:49 PM
>>         Subject: Re: Drifter issue heads up
>>         To: Jana Goldman <jana.goldman@noaa.gov
>>         <mailto:jana.goldman@noaa.gov> <mailto:jana.goldman@noaa.gov
>>         <mailto:jana.goldman@noaa.gov>**>>
```

```
>>          Cc: Craig McLean <craig.mclean@noaa.gov
>>          <mailto:craig.mclean@noaa.gov> <mailto:craig.mclean@noaa.gov
>>          <mailto:craig.mclean@noaa.gov>**>>, Alexander MacDonald
>>
<alexander.e.macdonald@noaa.**gov<alexander.e.macdonald@noaa.gov>
>>
<mailto:alexander.e.macdonald@**noaa.gov<alexander.e.macdonald@noaa.go
v>
>> >
>>
<mailto:alexander.e.macdonald@**noaa.gov<alexander.e.macdonald@noaa.go
v>
>>
<mailto:alexander.e.macdonald@**noaa.gov<alexander.e.macdonald@noaa.go
v>>>>,
>> Alan Leonardi
>>          <alan.leonardi@noaa.gov <mailto:alan.leonardi@noaa.gov**>
>>          <mailto:alan.leonardi@noaa.gov
>>          <mailto:alan.leonardi@noaa.gov**>>>, John Ewald
>>          <john.ewald@noaa.gov <mailto:john.ewald@noaa.gov>
>>          <mailto:john.ewald@noaa.gov
<mailto:john.ewald@noaa.gov>>>**,
>>          Brady Phillips <Brady.Phillips@noaa.gov
>>          <mailto:Brady.Phillips@noaa.**gov <Brady.Phillips@noaa.gov>>
>>          <mailto:Brady.Phillips@noaa.**gov <Brady.Phillips@noaa.gov>
>>          <mailto:Brady.Phillips@noaa.**gov
<Brady.Phillips@noaa.gov>>>>,
>> Barry Reichenbaugh
>>          <barry.reichenbaugh@noaa.gov
>>
<mailto:barry.reichenbaugh@**noaa.gov<barry.reichenbaugh@noaa.gov>
>> >
>>
<mailto:barry.reichenbaugh@**noaa.gov<barry.reichenbaugh@noaa.gov>
>>
<mailto:barry.reichenbaugh@**noaa.gov<barry.reichenbaugh@noaa.gov>
>> >>>
>>
>>
>>          Hi Jana,
>>
>>          I just spoke with John Ewald and I gave him a brief overview
>>          of everything I am aware of from Rick Lumpkin, the program
>>          manager. I am copying Rick Lumpkin here to ask him to directly
>>          verify the information he has. I know Rick was preparing a
>>          document describing the facts of AOML's interaction with the
>>          Haida Salmon Restoration Corporation. I hope he can send this
>>          forward to help clarify the facts.
>>
>>          I have not received any calls from the media at this point and
>>          will direct any that might come in to your office. I have
>>          asked Rick to do the same. Please let me know if another POC
```

```
>>          is assigned for media response.
>>
>>          - Erica
>>
>>          On Tue, Oct 16, 2012 at 2:06 PM, Jana Goldman
>>          <jana.goldman@noaa.gov <mailto:jana.goldman@noaa.gov>
>>          <mailto:jana.goldman@noaa.gov
<mailto:jana.goldman@noaa.gov>**>>
>>          wrote:
>>
>>              You may have seen this recent Guardian newspaper piece
>>          about NOAA
>>              and drifters.
>>          http://www.guardian.co.uk/**environment/2012/oct/15/**
>>
pacific-iron-fertilisation-**geoengineering<http://www.guardian.co.uk/
environment/2012/oct/15/pacific-iron-fertilisation-geoengineering>
>>
>>              We have received some media calls and are handling them at
>>          NOAA
>>              Communications HQ.
>>              Here's what I've been able to find out so far after talking
to
>>              Steve Piotrowicz in the climate program office, but I
>>          expect AOML
>>              can help fill in gaps - like when we were approached, was
>>          there
>>              more than just using a ship of opportunity to deploy, do
>>          we have
>>              the name of the ship, and anything else I neglected to ask.
>>              You may recall that Planktos wanted to do this in the
>>          Galapagos
>>              but was refused.
>>
>>
>>                 * The Haida Salmon Restoration Corporation, a Native
>>          American
>>                 Indian group in Canada (I have since learned this is
>>          the new
>>                 name of Planktos, Inc. run by Russ George)- approached
>>          NOAA's
>>                 Atlantic Oceanographic and Meteorological Laboratory
>>          (AOML) in
>>                 Miami, Fla. for drifter buoys (I don;t have date, but
>>          can get)
>>                 * These are the buoys we deploy in partnership with
>>          schools --
>>                 they float on top of the water, collect and transmith
>>          data to
>>                 help us understand about currents and other aspects of
>>          the ocean.
>>                 * AOML seeing this as an opportunity to get valuable
```

```
>>        ocean data
>>              supplied 20 buoys - we often use ships of opportunity
to
>>              deploy drifters and buoys
>>            * Haida did NOT tell AOML that this was to be used in
>>              conjunction with the release of iron sulfate into the
>>        ocean
>>            * Not sure if the drifters were deployed from the ship
that
>>              discharged the iron sulfate into the ocean
>>            * This is NOT the Argo autonomous float program, which
>>        has more
>>              than 3,000 floats in the ocean and do not transit data
>>        hourly.
>>            * The drifters in this case do use the ARGOS satellite
>>        system
>>              (NESDIS) to relay information collected, such as
>>        temperature
>>              and surface pressure.
>>            * Velocity is derived from positioning information that
the
>>              ARGOS satellite system provides
>>            * The drifters would have measured where the iron
>>        sulfate was
>>              going - the dispersion, via the ocean currents
>>
>>
>>        cheers
>>        jana
>>
>>
>>
>>        --      Jana Goldman
>>        Director
>>        NOAA Communications @ NOAA Research
>>        1315 East West Highway
>>        SSMC3 #11229
>>        Silver Spring, MD 20910
>>        301-734-1123 <tel:301-734-1123> <tel:301-734-1123>
>>        <tel:301-734-1123>>
>>        jana.goldman@noaa.gov <mailto:jana.goldman@noaa.gov>
>>        <mailto:jana.goldman@noaa.gov
<mailto:jana.goldman@noaa.gov>**>
>>
>>
>>
>>
>>
>>        --        Erica Rule
>>        Communications and Outreach
>>        NOAA's Atlantic Oceanographic and Meteorological Laboratory
>>        4301 Rickenbacker Cswy., Miami, FL 33149
```

```
>>          www.aoml.noaa.gov <http://www.aoml.noaa.gov>
>>          <http://www.aoml.noaa.gov>
>>          305-361-4541 <tel:305-361-4541> <tel:305-361-4541
>>          <tel:305-361-4541>>
>>
>>
>>
>>
>>          --          Erica Rule
>>          Communications and Outreach
>>          NOAA's Atlantic Oceanographic and Meteorological Laboratory
>>          4301 Rickenbacker Cswy., Miami, FL 33149
>>          www.aoml.noaa.gov <http://www.aoml.noaa.gov>
>>          <http://www.aoml.noaa.gov>
>>          305-361-4541 <tel:305-361-4541>
>>
>>
>>
>>
>>
>> --
>> Jana Goldman
>> Director
>> NOAA Communications @ NOAA Research
>> 1315 East West Highway
>> SSMC3 #11229
>> Silver Spring, MD 20910
>> 301-734-1123
>> jana.goldman@noaa.gov <mailto:jana.goldman@noaa.gov>
>>
>>
>>
>


--
Jana Goldman
Director
NOAA Communications @ NOAA Research
1315 East West Highway
SSMC3 #11229
Silver Spring, MD 20910
301-734-1123
jana.goldman@noaa.gov

--0016e68dbd9dc0fb0c04cc320c50
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Thanks for the helpful explanation --and the swift
response!<br>cheers<br>j=
ana<br><br><div class=3D"gmail_quote">On Tue, Oct 16, 2012 at 3:19 PM, <a
```

h=
ref=3D"mailto:Rick.Lumpkin@noaa.gov">Rick.Lumpkin@noaa.gov <span dir=3D=
"ltr"><<a href=3D"mailto:rick.lumpkin@noaa.gov"
target=3D"_blank">rick.l=
umpkin@noaa.gov> wrote:
<blockquote class=3D"gmail_quote" style=3D"margin:0 0 0
.8ex;border-left:1p=
x #ccc solid;padding-left:1ex">Hi Jana,

We try to maintain an open-ocean global array at roughly 5x5 resolution,
so=
 in the past we've turned down deployment opportunities, or donated
onl=
y a small number of drifters, for deployments in semi-closed seas. =A0We&#3=
9;ve turned down opportunities when it was clearly not in the interest of
t=
he program. =A0Our guiding criterion for these efforts has always been:
wil=
l these deployments help the array and the program?

I have referred to the people and organizations that deploy drifters for
us=
 as "partners", but we've never had any formal legal
agreemen=
ts (no MoUs, etc.). =A0Deployments have always been arranged under the unde=
rstanding that the observations are for the mutual benefit of both the drif=
ter program and the people doing the deployments. =A0For example, shipping
=
companies are willing to have their crew deploy drifters from cargo ships
b=
ecause the data are used to improve weather forecasts; ocean researchers
ar=
e willing to deploy them because their data can help understand circulation=
 patterns.

=A0 =A0 Regards,
=A0 =A0 Rick

On 10/16/2012 03:06 PM, Jana Goldman wrote:
<blockquote class=3D"gmail_quote" style=3D"margin:0 0 0
.8ex;border-left:1p=
x #ccc solid;padding-left:1ex">
Thanks for this, Rick.
I was asked if we have a protocol when offered opportunities to deploy drif=
ters.
cheers
jana

On Tue, Oct 16, 2012 at 3:02 PM, <a href=3D"mailto:Rick.Lumpkin@noaa.gov"

```
t=
arget=3D"_blank">Rick.Lumpkin@noaa.gov</a> &lt;mailto:<a
href=3D"mailto:Ric=
k.Lumpkin@noaa.gov" target=3D"_blank">Rick.Lumpkin@noaa.gov</a>&gt;
&lt;<a =
href=3D"mailto:rick.lumpkin@noaa.gov"
target=3D"_blank">rick.lumpkin@noaa.g=
ov</a> &lt;mailto:<a href=3D"mailto:rick.lumpkin@noaa.gov"
target=3D"_blank=
">rick.lumpkin@noaa.gov</a>&gt;<u></u>&gt; wrote:<br>

<br>
=A0 =A0 Dear all,<br>
<br>
=A0 =A0 Please find attached a copy of the letter I just sent to Richard<br=
>
=A0 =A0 Mannix (General Council Office) summarizing our involvement
with<br=
>
=A0 =A0 the interaction. =A0Richard contacted me earlier today to get these=
<br>
=A0 =A0 details.<br>
<br>
=A0 =A0 =A0 =A0 Best regards,<br>
=A0 =A0 =A0 =A0 Rick Lumpkin<br>
<br>
=A0 =A0 On 10/16/2012 02:52 PM, Erica Rule wrote:<br>
<br>
=A0 =A0 =A0 =A0 Hi Rick - Here&#39;s what I sent to Jana et al, can you
ple=
ase<br>
=A0 =A0 =A0 =A0 forward them the details in your summary of the interaction=
?<br>
=A0 =A0 =A0 =A0 thanks, Erica<br>
<br>
=A0 =A0 =A0 =A0 ---------- Forwarded message ----------<br>
=A0 =A0 =A0 =A0 From: *Erica Rule* &lt;<a
href=3D"mailto:erica.rule@noaa.go=
v" target=3D"_blank">erica.rule@noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:erica.rule@noaa.gov"
target=3D=
"_blank">erica.rule@noaa.gov</a>&gt; &lt;mailto:<a
href=3D"mailto:erica.rul=
e@noaa.gov" target=3D"_blank">erica.rule@noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:erica.rule@noaa.gov"
target=3D=
"_blank">erica.rule@noaa.gov</a>&gt;&gt;&gt;<br>
=A0 =A0 =A0 =A0 Date: Tue, Oct 16, 2012 at 2:49 PM<br>
=A0 =A0 =A0 =A0 Subject: Re: Drifter issue heads up<br>
=A0 =A0 =A0 =A0 To: Jana Goldman &lt;<a
href=3D"mailto:jana.goldman@noaa.go=
v" target=3D"_blank">jana.goldman@noaa.gov</a><br>
```

```
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:jana.goldman@noaa.gov"
target=
=3D"_blank">jana.goldman@noaa.gov</a>&gt; &lt;mailto:<a
href=3D"mailto:jana=
.goldman@noaa.gov" target=3D"_blank">jana.goldman@noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:jana.goldman@noaa.gov"
target=
=3D"_blank">jana.goldman@noaa.gov</a>&gt;<u></u>&gt;&gt;<br>
=A0 =A0 =A0 =A0 Cc: Craig McLean &lt;<a
href=3D"mailto:craig.mclean@noaa.go=
v" target=3D"_blank">craig.mclean@noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:craig.mclean@noaa.gov"
target=
=3D"_blank">craig.mclean@noaa.gov</a>&gt; &lt;mailto:<a
href=3D"mailto:crai=
g.mclean@noaa.gov" target=3D"_blank">craig.mclean@noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:craig.mclean@noaa.gov"
target=
=3D"_blank">craig.mclean@noaa.gov</a>&gt;<u></u>&gt;&gt;, Alexander
MacDona=
ld<br>
=A0 =A0 =A0 =A0 &lt;<a href=3D"mailto:alexander.e.macdonald@noaa.gov"
targe=
t=3D"_blank">alexander.e.macdonald@noaa.<u></u>gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a
href=3D"mailto:alexander.e.macdonald@noaa.gov=
" target=3D"_blank">alexander.e.macdonald@<u></u>noaa.gov</a>&gt;<br>
=A0 =A0 =A0 =A0 &lt;mailto:<a
href=3D"mailto:alexander.e.macdonald@noaa.gov=
" target=3D"_blank">alexander.e.macdonald@<u></u>noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a
href=3D"mailto:alexander.e.macdonald@noaa.gov=
"
target=3D"_blank">alexander.e.macdonald@<u></u>noaa.gov</a>&gt;&gt;&gt
;, =
Alan Leonardi<br>
=A0 =A0 =A0 =A0 &lt;<a href=3D"mailto:alan.leonardi@noaa.gov"
target=3D"_bl=
ank">alan.leonardi@noaa.gov</a> &lt;mailto:<a
href=3D"mailto:alan.leonardi@=
noaa.gov" target=3D"_blank">alan.leonardi@noaa.gov</a><u></u>&gt;<br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:alan.leonardi@noaa.gov"
target=
=3D"_blank">alan.leonardi@noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:alan.leonardi@noaa.gov"
target=
=3D"_blank">alan.leonardi@noaa.gov</a><u></u>&gt;&gt;&gt;, John
Ewald<br>
=A0 =A0 =A0 =A0 &lt;<a href=3D"mailto:john.ewald@noaa.gov"
target=3D"_blank=
">john.ewald@noaa.gov</a> &lt;mailto:<a
href=3D"mailto:john.ewald@noaa.gov"=
```

```
 target=3D"_blank">john.ewald@noaa.gov</a>&gt;<br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:john.ewald@noaa.gov"
target=3D=
"_blank">john.ewald@noaa.gov</a> &lt;mailto:<a
href=3D"mailto:john.ewald@no=
aa.gov"
target=3D"_blank">john.ewald@noaa.gov</a>&gt;&gt;&gt;<u></u>,<br>
=A0 =A0 =A0 =A0 Brady Phillips &lt;<a
href=3D"mailto:Brady.Phillips@noaa.go=
v" target=3D"_blank">Brady.Phillips@noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:Brady.Phillips@noaa.gov"
targe=
t=3D"_blank">Brady.Phillips@noaa.<u></u>gov</a>&gt;<br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:Brady.Phillips@noaa.gov"
targe=
t=3D"_blank">Brady.Phillips@noaa.<u></u>gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:Brady.Phillips@noaa.gov"
targe=
t=3D"_blank">Brady.Phillips@noaa.<u></u>gov</a>&gt;&gt;&gt;, Barry
Reichenb=
augh<br>
=A0 =A0 =A0 =A0 &lt;<a href=3D"mailto:barry.reichenbaugh@noaa.gov"
target=
=3D"_blank">barry.reichenbaugh@noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:barry.reichenbaugh@noaa.gov"
t=
arget=3D"_blank">barry.reichenbaugh@<u></u>noaa.gov</a>&gt;<br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:barry.reichenbaugh@noaa.gov"
t=
arget=3D"_blank">barry.reichenbaugh@<u></u>noaa.gov</a><br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:barry.reichenbaugh@noaa.gov"
t=
arget=3D"_blank">barry.reichenbaugh@<u></u>noaa.gov</a>&gt;&gt;&gt;<br
>
<br>
<br>
=A0 =A0 =A0 =A0 Hi Jana,<br>
<br>
=A0 =A0 =A0 =A0 I just spoke with John Ewald and I gave him a brief overvie=
w<br>
=A0 =A0 =A0 =A0 of everything I am aware of from Rick Lumpkin, the program<=
br>
=A0 =A0 =A0 =A0 manager. I am copying Rick Lumpkin here to ask him to direc=
tly<br>
=A0 =A0 =A0 =A0 verify the information he has. I know Rick was preparing
a<=
br>
=A0 =A0 =A0 =A0 document describing the facts of AOML&#39;s interaction
wit=
h the<br>
=A0 =A0 =A0 =A0 Haida Salmon Restoration Corporation. I hope he can send
th=
```

is
=A0 =A0 =A0 =A0 forward to help clarify the facts.

=A0 =A0 =A0 =A0 I have not received any calls from the media at this point
=
and
=A0 =A0 =A0 =A0 will direct any that might come in to your office. I have<b=
r>
=A0 =A0 =A0 =A0 asked Rick to do the same. Please let me know if another
PO=
C
=A0 =A0 =A0 =A0 is assigned for media response.

=A0 =A0 =A0 =A0 - Erica

=A0 =A0 =A0 =A0 On Tue, Oct 16, 2012 at 2:06 PM, Jana Goldman
=A0 =A0 =A0 =A0 <<a href=3D"mailto:jana.goldman@noaa.gov"
target=3D"_bla=
nk">jana.goldman@noaa.gov <mailto:<a
href=3D"mailto:jana.goldman@noa=
a.gov" target=3D"_blank">jana.goldman@noaa.gov>
=A0 =A0 =A0 =A0 <mailto:<a href=3D"mailto:jana.goldman@noaa.gov"
target=
=3D"_blank">jana.goldman@noaa.gov <mailto:<a
href=3D"mailto:jana.gol=
dman@noaa.gov"
target=3D"_blank">jana.goldman@noaa.gov><u></u>>&g=
t;
=A0 =A0 =A0 =A0 wrote:

=A0 =A0 =A0 =A0 =A0 =A0 You may have seen this recent Guardian newspaper
pi=
ece
=A0 =A0 =A0 =A0 about NOAA
=A0 =A0 =A0 =A0 =A0 =A0 and drifters.
=A0 =A0 =A0 =A0 <a
href=3D"http://www.guardian.co.uk/environment/2012/oct/1=
5/pacific-iron-fertilisation-geoengineering"
target=3D"_blank">http://www.g=
uardian.co.uk/<u></u>environment/2012/oct/15/<u></u>pacific-iron-ferti
lisat=
ion-<u></u>geoengineering

=A0 =A0 =A0 =A0 =A0 =A0 We have received some media calls and are handling
=
them at
=A0 =A0 =A0 =A0 NOAA
=A0 =A0 =A0 =A0 =A0 =A0 Communications HQ.
=A0 =A0 =A0 =A0 =A0 =A0 Here's what I've been able to find out so
f=
ar after talking to

=A0 =A0 =A0 =A0 =A0 =A0 Steve Piotrowicz in the climate program office, but=
 I
=A0 =A0 =A0 =A0 expect AOML
=A0 =A0 =A0 =A0 =A0 =A0 can help fill in gaps - like when we were approache=
d, was
=A0 =A0 =A0 =A0 there
=A0 =A0 =A0 =A0 =A0 =A0 more than just using a ship of opportunity to deplo=
y, do
=A0 =A0 =A0 =A0 we have
=A0 =A0 =A0 =A0 =A0 =A0 the name of the ship, and anything else I neglected=
 to ask.
=A0 =A0 =A0 =A0 =A0 =A0 You may recall that Planktos wanted to do this in t=
he
=A0 =A0 =A0 =A0 Galapagos
=A0 =A0 =A0 =A0 =A0 =A0 but was refused.

=A0 =A0 =A0 =A0 =A0 =A0 =A0 * The Haida Salmon Restoration Corporation, a N=
ative
=A0 =A0 =A0 =A0 American
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Indian group in Canada (I have since learne=
d this is
=A0 =A0 =A0 =A0 the new
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 name of Planktos, Inc. run by Russ George)-=
 approached
=A0 =A0 =A0 =A0 NOAA's
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Atlantic Oceanographic and Meteorological L=
aboratory
=A0 =A0 =A0 =A0 (AOML) in
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 Miami, Fla. for drifter buoys (I don;t have=
 date, but
=A0 =A0 =A0 =A0 can get)
=A0 =A0 =A0 =A0 =A0 =A0 =A0 * These are the buoys we deploy in partnership =
with
=A0 =A0 =A0 =A0 schools --
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 they float on top of the water, collect and=
 transmith
=A0 =A0 =A0 =A0 data to
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 help us understand about currents and other=
 aspects of
=A0 =A0 =A0 =A0 the ocean.
=A0 =A0 =A0 =A0 =A0 =A0 =A0 * AOML seeing this as an opportunity to get val=
uable
=A0 =A0 =A0 =A0 ocean data
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 supplied 20 buoys - we often use ships of

o=
pportunity to
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 deploy drifters and buoys
=A0 =A0 =A0 =A0 =A0 =A0 =A0 * Haida did NOT tell AOML that this was to be u=
sed in
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 conjunction with the release of iron sulfat=
e into the
=A0 =A0 =A0 =A0 ocean
=A0 =A0 =A0 =A0 =A0 =A0 =A0 * Not sure if the drifters were deployed from t=
he ship that
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 discharged the iron sulfate into the ocean<=
br>
=A0 =A0 =A0 =A0 =A0 =A0 =A0 * This is NOT the Argo autonomous float program=
, which
=A0 =A0 =A0 =A0 has more
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 than 3,000 floats in the ocean and do not t=
ransit data
=A0 =A0 =A0 =A0 hourly.
=A0 =A0 =A0 =A0 =A0 =A0 =A0 * The drifters in this case do use the ARGOS sa=
tellite
=A0 =A0 =A0 =A0 system
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 (NESDIS) to relay information collected, su=
ch as
=A0 =A0 =A0 =A0 temperature
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 and surface pressure.
=A0 =A0 =A0 =A0 =A0 =A0 =A0 * Velocity is derived from positioning informat=
ion that the
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 ARGOS satellite system provides
=A0 =A0 =A0 =A0 =A0 =A0 =A0 * The drifters would have measured where their=
on
=A0 =A0 =A0 =A0 sulfate was
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 going - the dispersion, via the ocean curre=
nts

=A0 =A0 =A0 =A0 =A0 =A0 cheers
=A0 =A0 =A0 =A0 =A0 =A0 jana

=A0 =A0 =A0 =A0 =A0 =A0 -- =A0 =A0 Jana Goldman
=A0 =A0 =A0 =A0 =A0 =A0 Director
=A0 =A0 =A0 =A0 =A0 =A0 NOAA Communications @ NOAA Research
=A0 =A0 =A0 =A0 =A0 =A0 1315 East West Highway
=A0 =A0 =A0 =A0 =A0 =A0 SSMC3 #11229
=A0 =A0 =A0 =A0 =A0 =A0 Silver Spring, MD 20910

```
=A0 =A0 =A0 =A0 <a href=3D"tel:301-734-1123" value=3D"+13017341123"
target=
=3D"_blank">301-734-1123</a> &lt;tel:<a href=3D"tel:301-734-1123"
value=3D"=
+13017341123" target=3D"_blank">301-734-1123</a>&gt; &lt;tel:<a
href=3D"tel=
:301-734-1123" value=3D"+13017341123"
target=3D"_blank">301-734-1123</a><br=
>

=A0 =A0 =A0 =A0 &lt;tel:<a href=3D"tel:301-734-1123"
value=3D"+13017341123"=
 target=3D"_blank">301-734-1123</a>&gt;&gt;<br>
=A0 =A0 =A0 =A0 <a href=3D"mailto:jana.goldman@noaa.gov"
target=3D"_blank">=
jana.goldman@noaa.gov</a> &lt;mailto:<a
href=3D"mailto:jana.goldman@noaa.go=
v" target=3D"_blank">jana.goldman@noaa.gov</a>&gt;<br>
=A0 =A0 =A0 =A0 &lt;mailto:<a href=3D"mailto:jana.goldman@noaa.gov"
target=
=3D"_blank">jana.goldman@noaa.gov</a> &lt;mailto:<a
href=3D"mailto:jana.gol=
dman@noaa.gov"
target=3D"_blank">jana.goldman@noaa.gov</a>&gt;<u></u>&gt;<b=
r>
<br>
<br>
<br>
<br>
<br>
=A0 =A0 =A0 =A0 -- =A0 =A0 =A0 =A0 Erica Rule<br>
=A0 =A0 =A0 =A0 Communications and Outreach<br>
=A0 =A0 =A0 =A0 NOAA&#39;s Atlantic Oceanographic and Meteorological
Labora=
tory<br>
=A0 =A0 =A0 =A0 4301 Rickenbacker Cswy., Miami, FL 33149<br>
=A0 =A0 =A0 =A0 <a href=3D"http://www.aoml.noaa.gov"
target=3D"_blank">www.=
aoml.noaa.gov</a> &lt;<a href=3D"http://www.aoml.noaa.gov"
target=3D"_blank=
">http://www.aoml.noaa.gov</a>&gt;<br>
=A0 =A0 =A0 =A0 &lt;<a href=3D"http://www.aoml.noaa.gov"
target=3D"_blank">=
http://www.aoml.noaa.gov</a>&gt;<br>
=A0 =A0 =A0 =A0 <a href=3D"tel:305-361-4541" value=3D"+13053614541"
target=
=3D"_blank">305-361-4541</a> &lt;tel:<a href=3D"tel:305-361-4541"
value=3D"=
+13053614541" target=3D"_blank">305-361-4541</a>&gt; &lt;tel:<a
href=3D"tel=
:305-361-4541" value=3D"+13053614541"
target=3D"_blank">305-361-4541</a><br=
```

```
>

=A0 =A0 =A0 =A0 &lt;tel:<a href=3D"tel:305-361-4541"
value=3D"+13053614541"=
 target=3D"_blank">305-361-4541</a>&gt;&gt;<br>
<br>
<br>
<br>
<br>
=A0 =A0 =A0 =A0 -- =A0 =A0 =A0 =A0 Erica Rule<br>
=A0 =A0 =A0 =A0 Communications and Outreach<br>
=A0 =A0 =A0 =A0 NOAA&#39;s Atlantic Oceanographic and Meteorological
Labora=
tory<br>
=A0 =A0 =A0 =A0 4301 Rickenbacker Cswy., Miami, FL 33149<br>
=A0 =A0 =A0 =A0 <a href=3D"http://www.aoml.noaa.gov"
target=3D"_blank">www.=
aoml.noaa.gov</a> &lt;<a href=3D"http://www.aoml.noaa.gov"
target=3D"_blank=
">http://www.aoml.noaa.gov</a>&gt;<br>
=A0 =A0 =A0 =A0 &lt;<a href=3D"http://www.aoml.noaa.gov"
target=3D"_blank">=
http://www.aoml.noaa.gov</a>&gt;<br>
=A0 =A0 =A0 =A0 <a href=3D"tel:305-361-4541" value=3D"+13053614541"
target=
=3D"_blank">305-361-4541</a> &lt;tel:<a href=3D"tel:305-361-4541"
value=3D"=
+13053614541" target=3D"_blank">305-361-4541</a>&gt;<br>
<br>
<br>
<br>
<br><span class=3D"HOEnZb"><font color=3D"#888888">
<br>
-- <br>
Jana Goldman<br>
Director<br>
NOAA Communications @ NOAA Research<br>
1315 East West Highway<br>
SSMC3 #11229<br>
Silver Spring, MD 20910<br>
<a href=3D"tel:301-734-1123" value=3D"+13017341123"
target=3D"_blank">301-7=
34-1123</a><br>
<a href=3D"mailto:jana.goldman@noaa.gov"
target=3D"_blank">jana.goldman@noa=
a.gov</a> &lt;mailto:<a href=3D"mailto:jana.goldman@noaa.gov"
target=3D"_bl=
ank">jana.goldman@noaa.gov</a>&gt;<br>
<br>
<br>
</font></span></blockquote>
<br>
```

</blockquote></div>
<br clear=3D"all">
--
Jana
Goldman
Directo=
r
NOAA Communications @ NOAA Research
1315 East West
Highway
SSMC3=
 #11229
Silver Spring, MD 20910
301-734-1123
<a
href=3D"mailto:jan=
a.goldman@noaa.gov">jana.goldman@noaa.gov

--0016e68dbd9dc0fb0c04cc320c50--