



GLOBE Clouds: Kondensstripeobservasjoner (contrails)





Mål

Rapporter i Globe Clouds om observerte fly over 25000 fot lager kondensstriper eller ikke. Rapporter type kondensstripe og generelle skyobservasjoner.

Bruk FlightRadar24s nettside eller app for å følge flyene som lager eller ikke lager kondensstriper. Send inn skyobservasjoner til GLOBE med GLOBEs nettside eller med GLOBEs Observer app.

Rapporter flyobservasjonen din til NASA GLOBE Clouds

 **Junior Researcher Contrail Report Form** 

Use the table to write down detailed observations of airplanes and contrails.
Note: contrails are produced by airplanes. Observe airplanes producing and not producing contrails. Use a free site or app like [flightradar24](https://flightradar24.com) to obtain airplane type and height. Report cloud observations through GLOBE or GLOBE Observer. You may use the GLOBE Clouds Protocol Data Sheet <https://www.globe.gov/documents/348614/624fab53-4159-438e-b974-4a79c402c3cb>.

Date	Time Value should match the time of cloud observations entered in GLOBE.	Airplane Type: Use the app. Include those producing and not producing contrails	Airplane Calibrated Altitude or Height (ft.) Use the app.	Airplane Track (degrees) Use the app. Value between 0-359.	Contrail Type: S – short P – persistent PS – persistent spreading No – no contrail	Comments
8/20/2018	10:49am	E75L	34,000	28	No	Skies are clear.
8/21/2018	10:51am	A320	36,025	357	S	Lots of cirrus clouds.

Treadway Elementary Contrail Observations - Dr. Caryn Long

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2	Date Example 08292018 for August 29, 2018 (Value should match the time of cloud observations entered in GLOBE)	Time Example 10:49am (Value should match the time of cloud observations entered in GLOBE)	Airplane Type Example E75L (Please include those that produce and do not produce contrails)	Airplane Calibrated Altitude or Height (ft) Example 34,000 (Use the app to get this information)	Airplane Track (degrees) Example 28 Use the app. Value should be between 0-359.	Contrail Type Click on the arrow and choose one of the options.	Comments (Optional)
3	8312018	11:40 AM	Boeing 737-7H4	9,825	119	No contrail	
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NASA GLOBE Clouds team mottar informasjonen din gjennom google-arket. Arket tilsvarer rapportskjemaet for contrail-observasjoner for unge forskere.

MERK: Vi trenger også skyobservasjonene dine i Globe Observer-appen for å matche til flyobservasjonen din.



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I kondensstripe-rapportskjemaet kan du samle informasjonen om flyene du ser mens du gjør observasjoner. I en annen presentasjon kan du finne informasjon om hvordan du finner detaljer om flyene du ser ved hjelp av FlighRadar24.

Rapportskjema – Dato og tid



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Vennligst benytt samme dato og tid (innenfor samme 5 minutter) som for skyobservasjonene du sender inn i Globe appen.


Rapportskjema – Informasjon om flvet



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Noen fly lager oftere kondensstriper enn andre, derfor vil vi gjerne vite flytypen, marsjhøyden og baneretningen. **NB: Kondensstriper er høye skyer, så noter deg også fly over 25,000ft som ikke lager kkondensstriper.**


Rapportskjema – kondensstriper og kommentarer



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Bruk contrail-boksen til å notere hva slags type kondensstripe flyet produserer (kort-livet (S-short), langlivet (P-persistent) eller langlivet spredt (PS – persistent spreading)). Hvis flyet ikke produserer kondensstriper, skriv "no". Bruk kommentarfeltet til å notere noe om forholdene på observasjonstidspunktet (valgfritt).


Rapportskjema – Contrails og kommentarer




Langlivede kondensstriper, både spredte og ikke spredte

De tre typene kondensstriper er altså **kort-livet**, **langlivet** og **langlivet spredt**. En **kortlivet** kondensstripe dannes rett bak flyet som en lys, hvit linje, og er synlig bare en kort stund etter at flyet har passert. En **langlivet** kondensstripe dannes når fortsetter å være synlig i luften lenge etter at flyet har passert, alt fra noen minutter til lenger enn en dag er mulig. Den fortsetter å se ut som en tynn linje. En **langlivet spredt** eller spredende kondensstripe varer også lenge, men etter som tiden går brer den seg utover og blir mer organisk i formen. Noen ganger kan den til slutt se ut som en naturlig cirrus-sky.

Rapportskjema- Minimumsinformasjon



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Informasjonen i gult er minimum av påkrevet informasjon for en brukbar rapport - **dato, tid, marsjhøyde og kondensstripeinformasjon.**

Rapportering i Google-ark



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The GLOBE Clouds teamet lager et googleark for grupperne deres, der de kan motta deres flyinformasjon. Arket inneholder de samme feltene som kondensstriperappportskjemaet. I tillegg vil det være et felt for epostadressen knyttet til Globe Clouds-kontoen til observatøren.

Rapportering i Google-ark

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Arket skifter farge til hvit når informasjonen legges inn. Legg inn så mye informasjon som mulig. **MERK: dato og time brukes for å matche flyobservasjonen til skyobservasjonene du har sendt inn via GLOBE-appen.**



Choose your protocol:

GLOBE
clouds



GLOBE
mosquito
habitat



Å sende inn skyobservasjoner i GLOBE Observer

Et lite **rødt** tall på
bunnen av skjermen
betyr at du har lagrede
data som ikke er sendt
inn til programmet.

1 observation collected

Select All

Clouds Observations

New Observation

Clouds Home

8/30/18 1:21 pm



Select All

Mosquitoes Observations

New Observation

Mosquitoes Home

Select Some Observations Above

See My Data

See Today's Cloud Measurements

See Current NASA Data



Å sende inn skyobservasjoner i GLOBE Observer

Når du trykker på det lille røde tallet, kommer du til dette vinduet. Det viser alle dine observasjoner.

1 observation collected

Select All

Clouds Observations

New Observation

Clouds Home

8/30/18 1:21 pm



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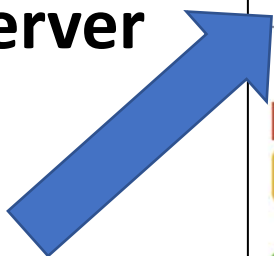


Å sende inn skyobservasjoner i GLOBE Observer

Du kan trykke på blyanten og gjøre endringer i observasjonen hvis det trengs. Hvis du trykker på søppelkassen, sletter du observasjonen.

Å sende inn skyobservasjoner i GLOBE Observer

Trykk i firkanten
som hører til
observasjonen du
vil sende inn til
GLOBE.





1 observation collected

Select All

Clouds Observations

New Observation Clouds Home

8/30/18 1:21 pm  

Select All

Mosquitoes Observations




New Observation Mosquitoes Home

Send 1 Observation to GLOBE

See My Data

See Today's Cloud Measurements

See Current NASA Data

Å sende inn skyobservasjoner i GLOBE Observer

Da vil du få opp en
grønn knapp for å
sende observasjonen
til GLOBE.

The screenshot displays the GLOBE Observer app interface. At the top, it shows '1 observation collected'. Below this, there are two sections: 'Clouds Observations' and 'Mosquitoes Observations'. Each section has a 'New Observation' button and a 'Home' button. A date and time '8/30/18 1:21 pm' is displayed. A large green button labeled 'Send 1 Observation to GLOBE' is prominently featured in the center, with a blue arrow pointing to it from the text on the left. Below this green button are three grey buttons: 'See My Data', 'See Today's Cloud Measurements', and 'See Current NASA Data'. At the bottom, there is a navigation bar with a home icon, a bar chart icon with a red notification badge, and a question mark icon.