

AMDAR Data Availability
within the NOAA
and

Description of the
OAR/ESRL

Global Systems Division

AMDAR Java Page

Data Sources Name Conventions

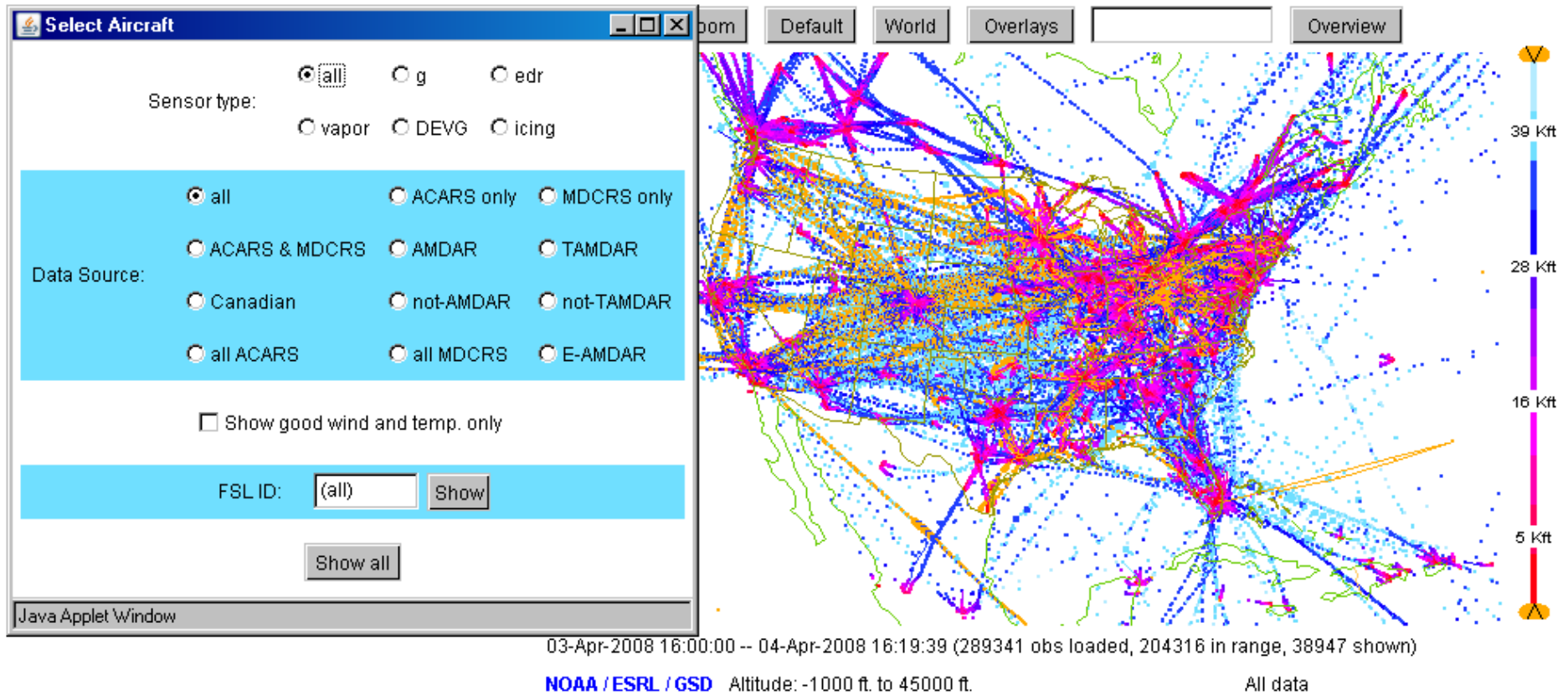
<http://amdar.noaa.gov/java/>

Distribution of Observations from Commercial Aircraft

	Circuit			
	AWIPS/ NOAAPort	MADIS/ LDAD	GTS/ FOS	ARINC
1. ACARS	No	Yes	No	Yes (by airline request to specific sites, such as GSD)
2. MDCRS	Yes	Yes	Yes	Yes
3. TAMDAR	No	Yes	No	No
4. AMDAR	No	Yes	Yes	No
5. E-AMDAR	No	Yes	Yes	No
6. Canadian AMDAR	No	Yes	Yes	No

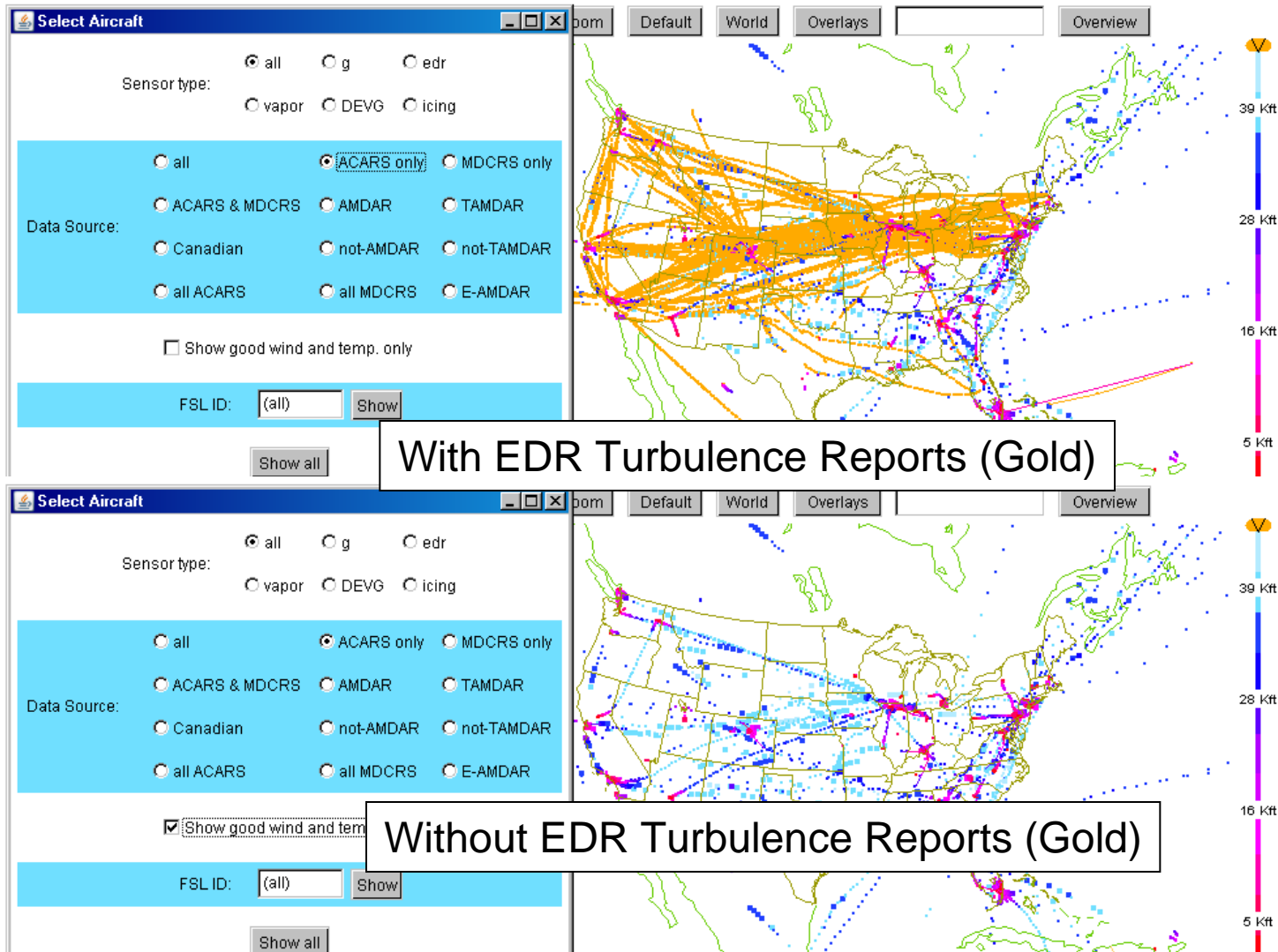
ESRL/GSD Java AMDAR Page

All Data Displayed



All sources of aircraft observations displayed.

ESRL/GSD Java AMDAR Page ACARS Only Data Displayed

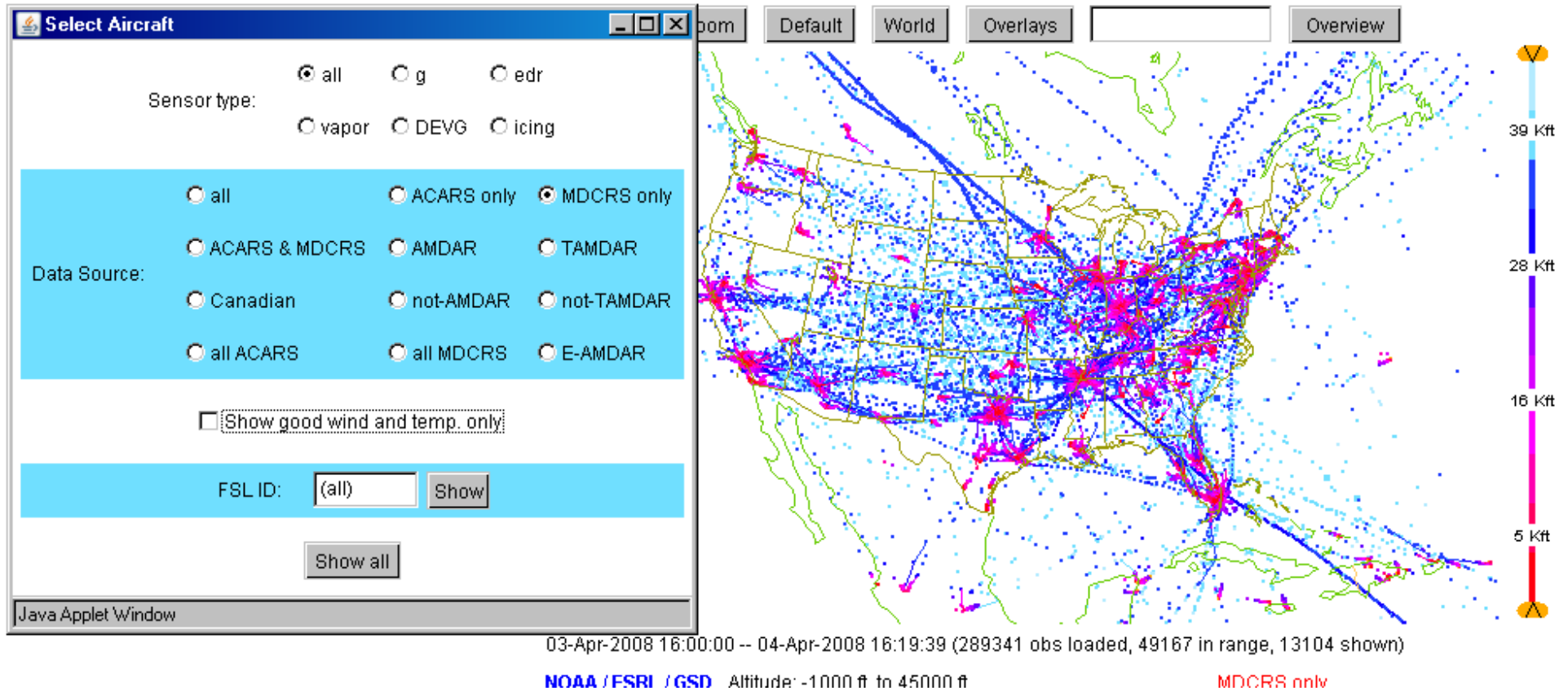


With EDR Turbulence Reports (Gold)

Without EDR Turbulence Reports (Gold)

ACARS Only: Observations decoded by GSD from ARINC direct feed of Messages in a variety (~40) of text formats. Six of the seven MDCRS-participating airlines send data; SW does not.

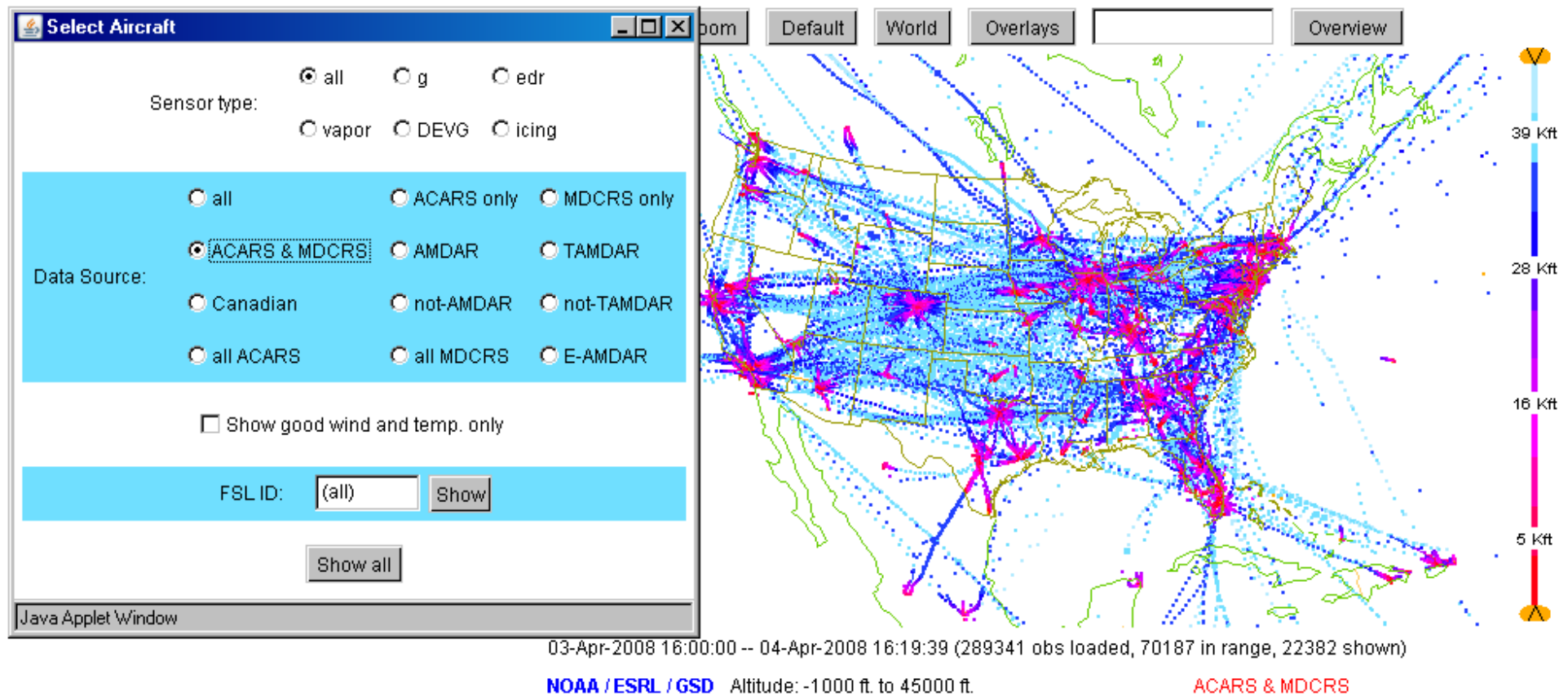
ESRL/GSD Java AMDAR Page MDCRS Only Data Displayed



MDCRS Only: Observations decoded by GSD from ARINC BUFR file collected from NOAAPort circuit. MDCRS air carriers include American, Delta, Fed-Ex, Northwest, Southwest, United, and UPS.

ESRL/GSD Java AMDAR Page

Combined ACARS and MDCRS Data Displayed

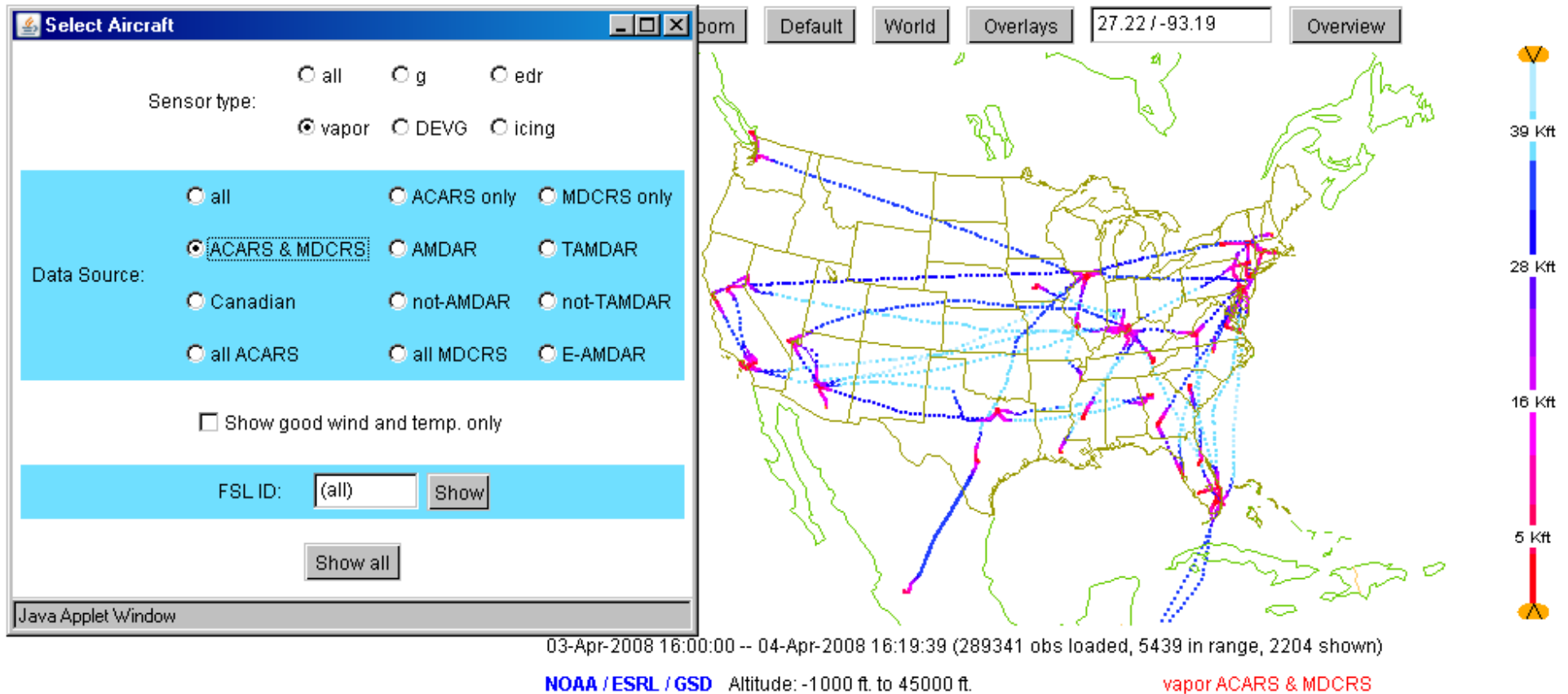


Combined ACARS and MDCRS: Combination of “raw” observations and ARINC BUFR observation. Can be used to detect when MDCRS BUFR file does not include all “raw” reports sent by MDCDS air carriers.

ESRL/GSD Java AMDAR Page

Combined ACARS and MDCRS Data Displayed

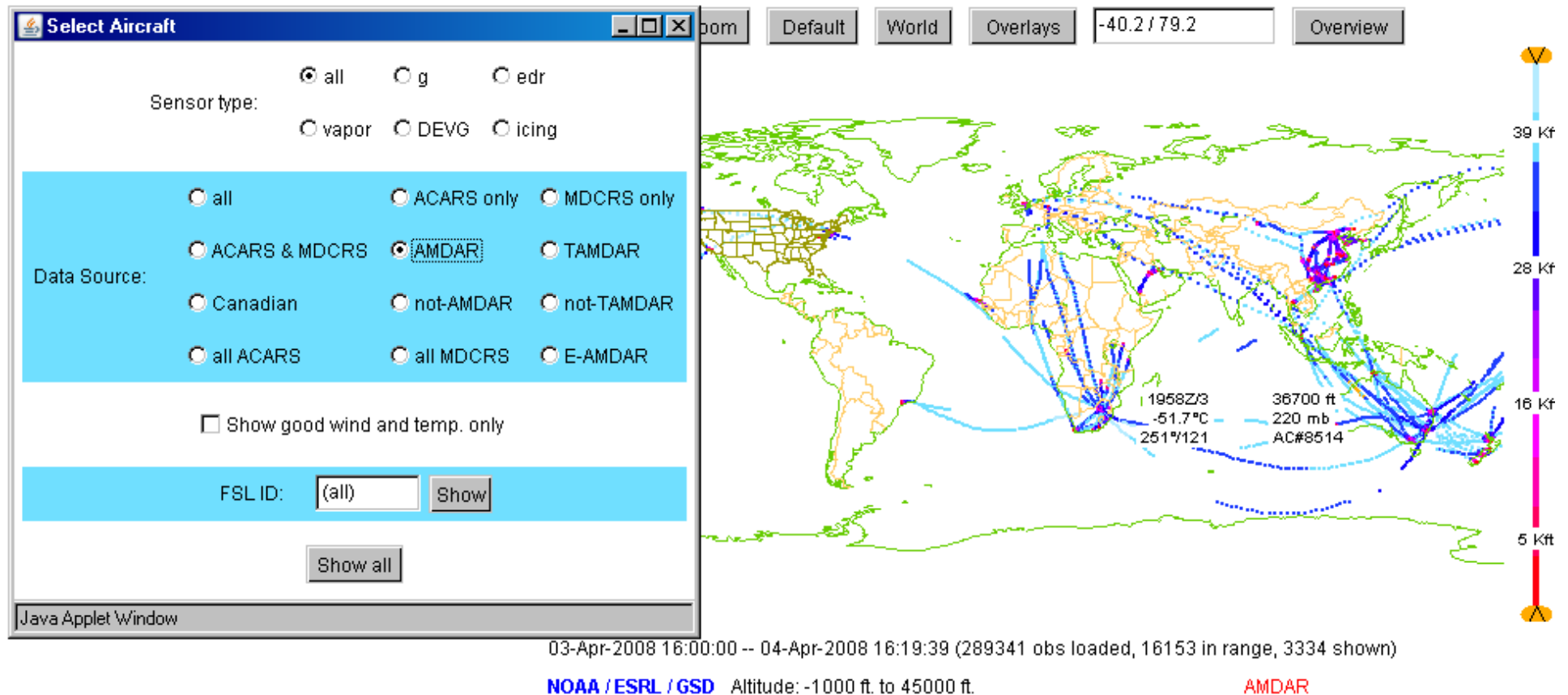
Water Vapor Only



Combined ACARS and MDCRS: Shows all UPS flights which have the WVSSII sensor installation.

ESRL/GSD Java AMDAR Page

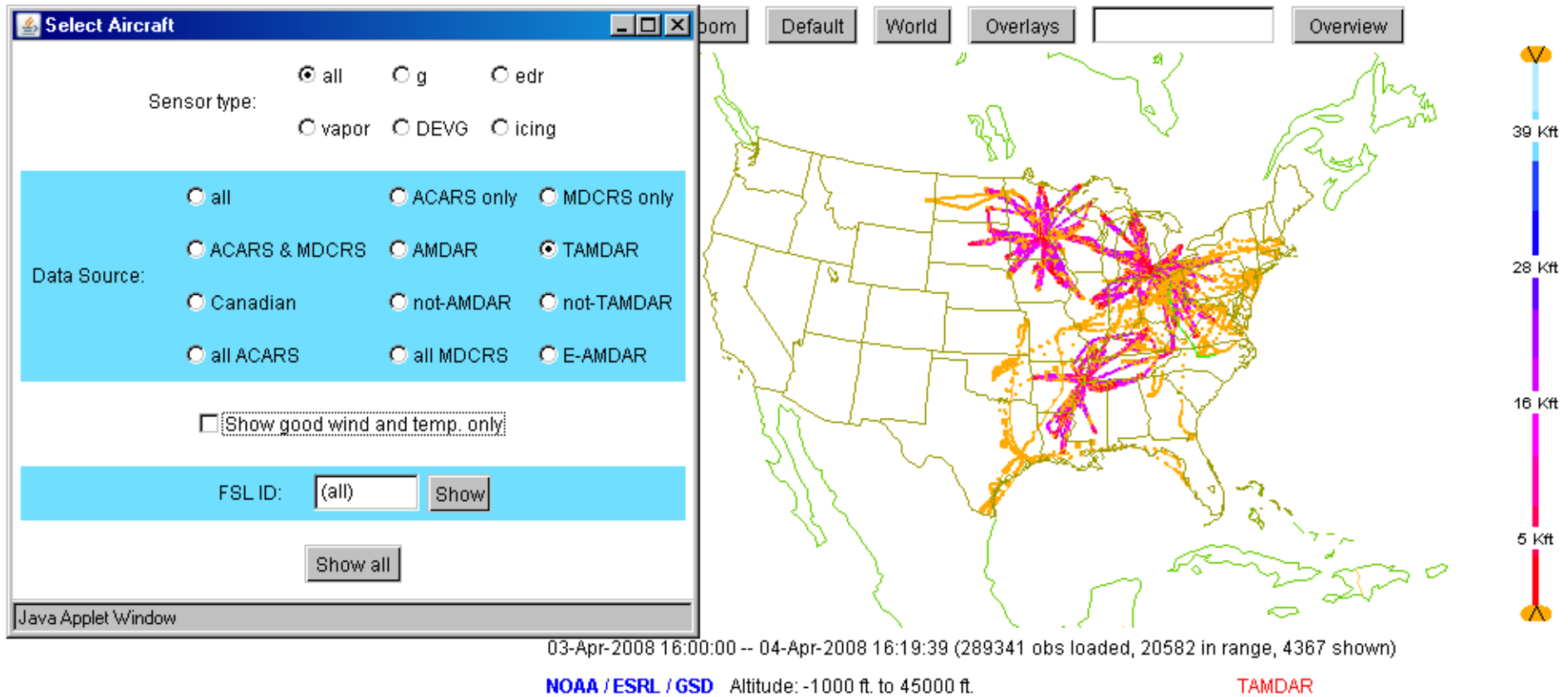
AMDAR Data Displayed



AMDAR: All AMDAR messages available on NOAA Family of Service feed including international reports from China, Korea, Japan, South Africa, Australia, New Zealand

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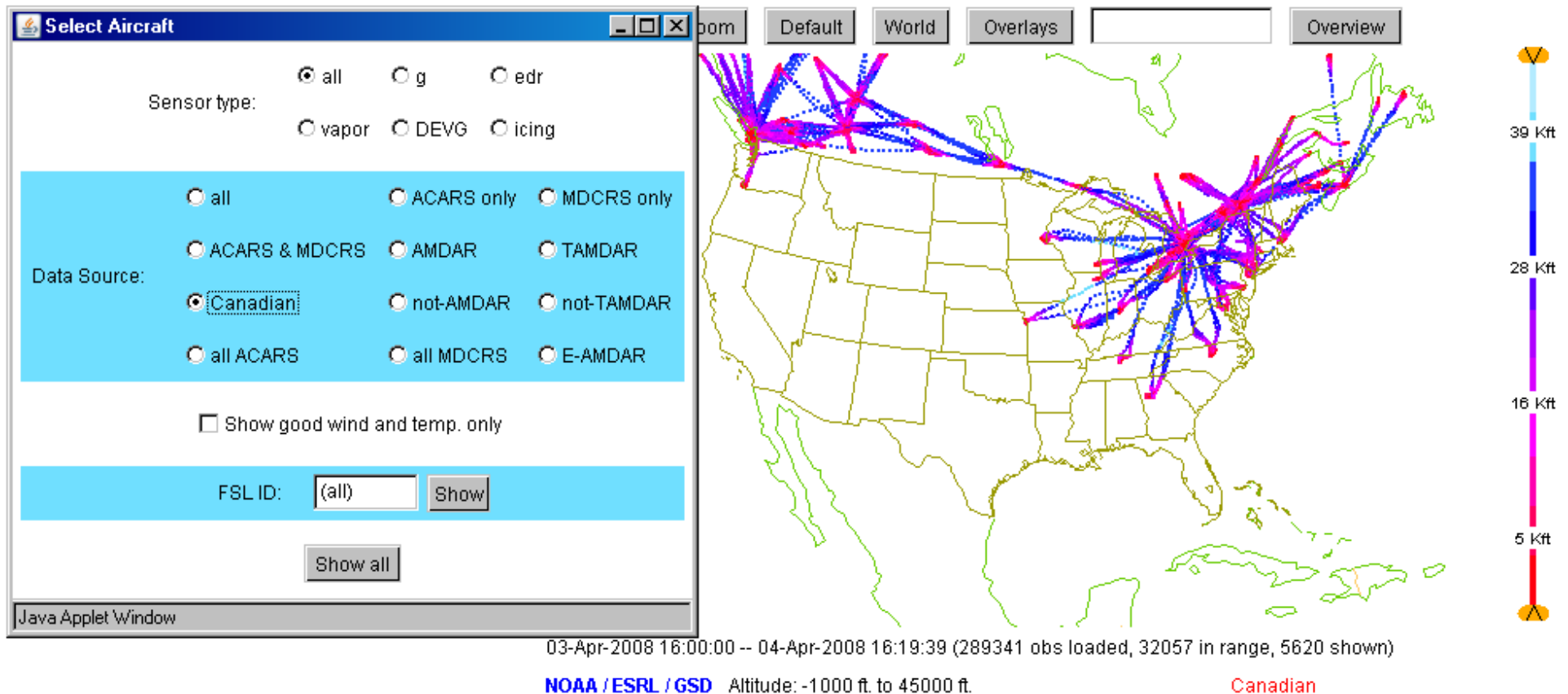
TAMDAR Data Displayed



TAMDAR: All TAMDAR reports available to the U.S. Government through a NOAA contract with AirDat, LLC. As of April 2008, these are limited to 49 Mesaba Airlines Saab 340 aircraft. Gold (missing) reports on east coast indicate growing data coverage beyond Mesaba TAMDAR fleet, but not under NOAA contract.

ESRL/GSD Java AMDAR Page

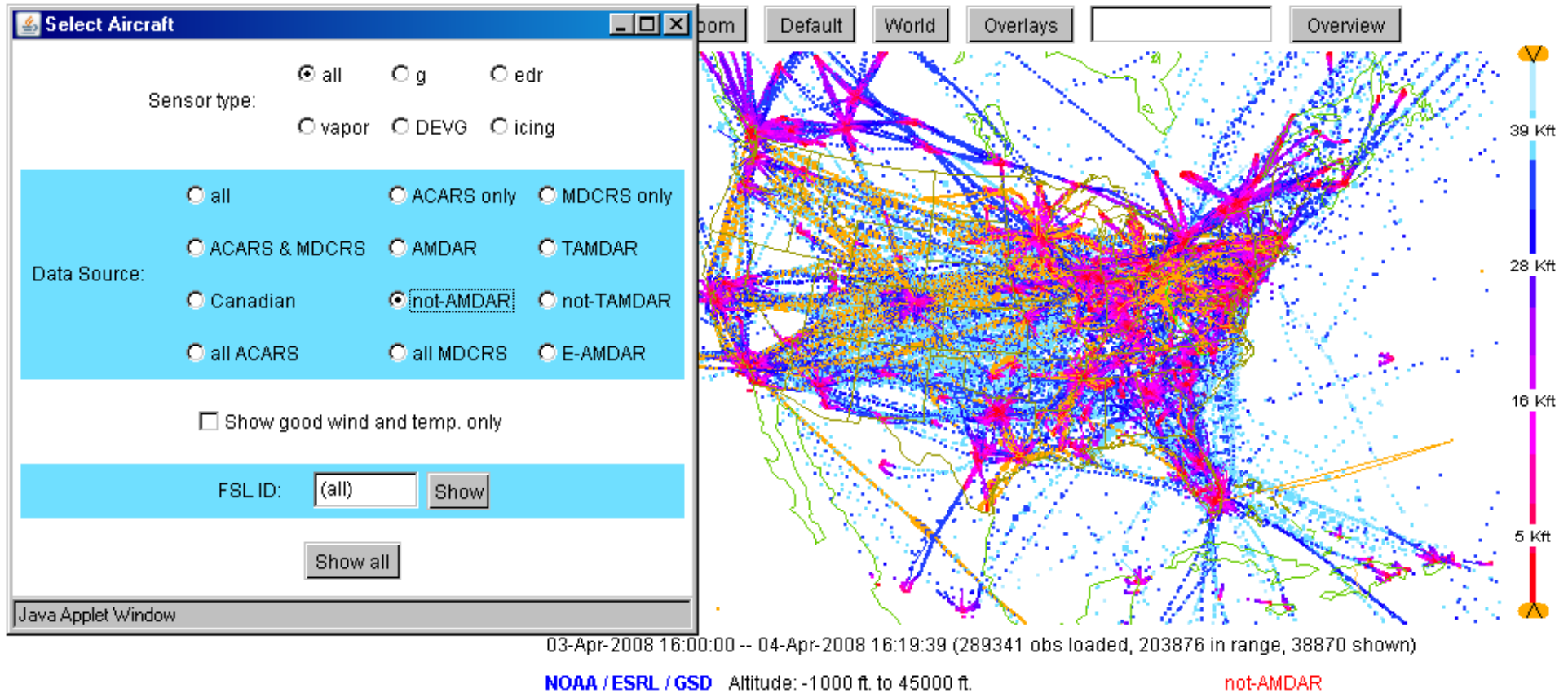
Canadian AMDAR Data Displayed



Canadian AMDAR: GSD decodes Canadian BUFR file available on FOS. These reports are collected through Jazz CRJ100, CRJ200, DHC-8-100 and DHC-8-300 aircraft.

ESRL/GSD Java AMDAR Page

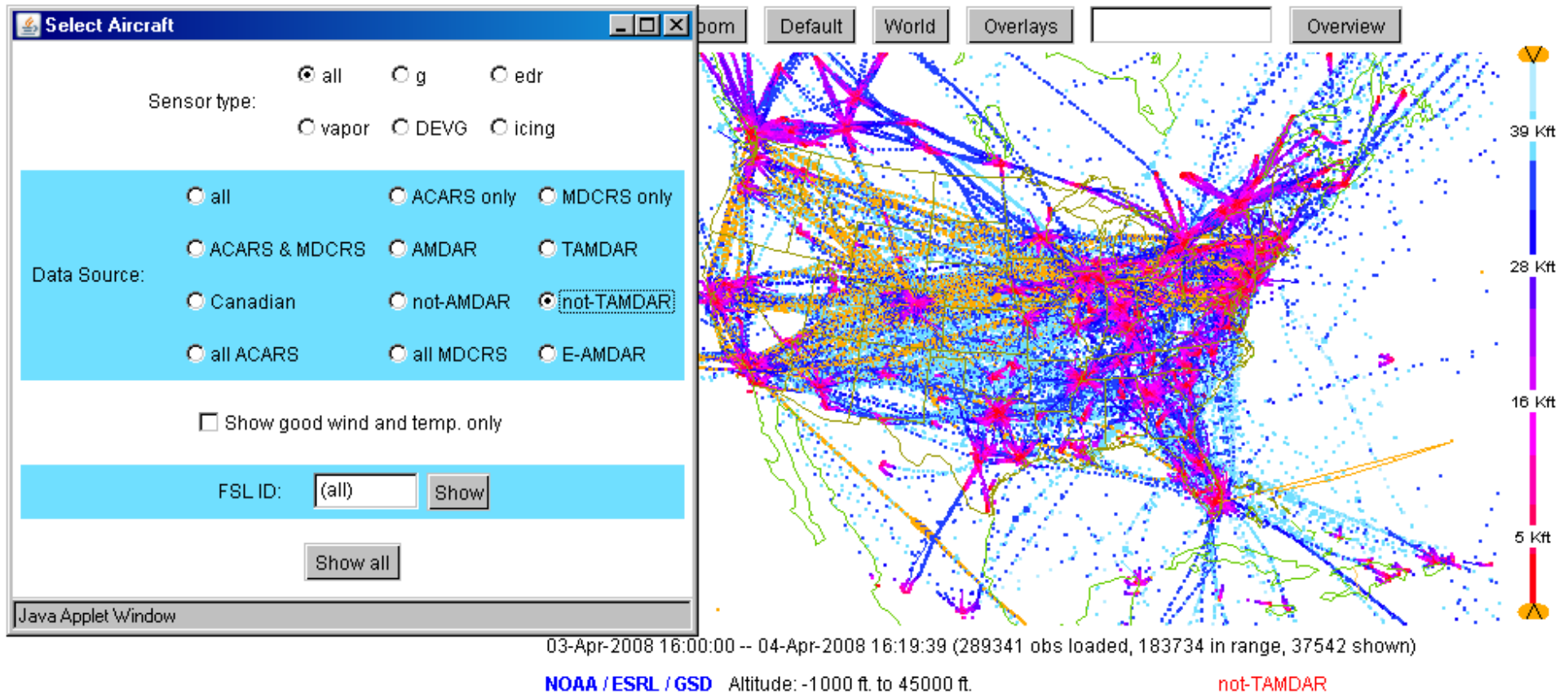
Not-AMDAR Data Displayed



Not AMDAR: All observations except from international AMDAR collectives.

ESRL/GSD Java AMDAR Page

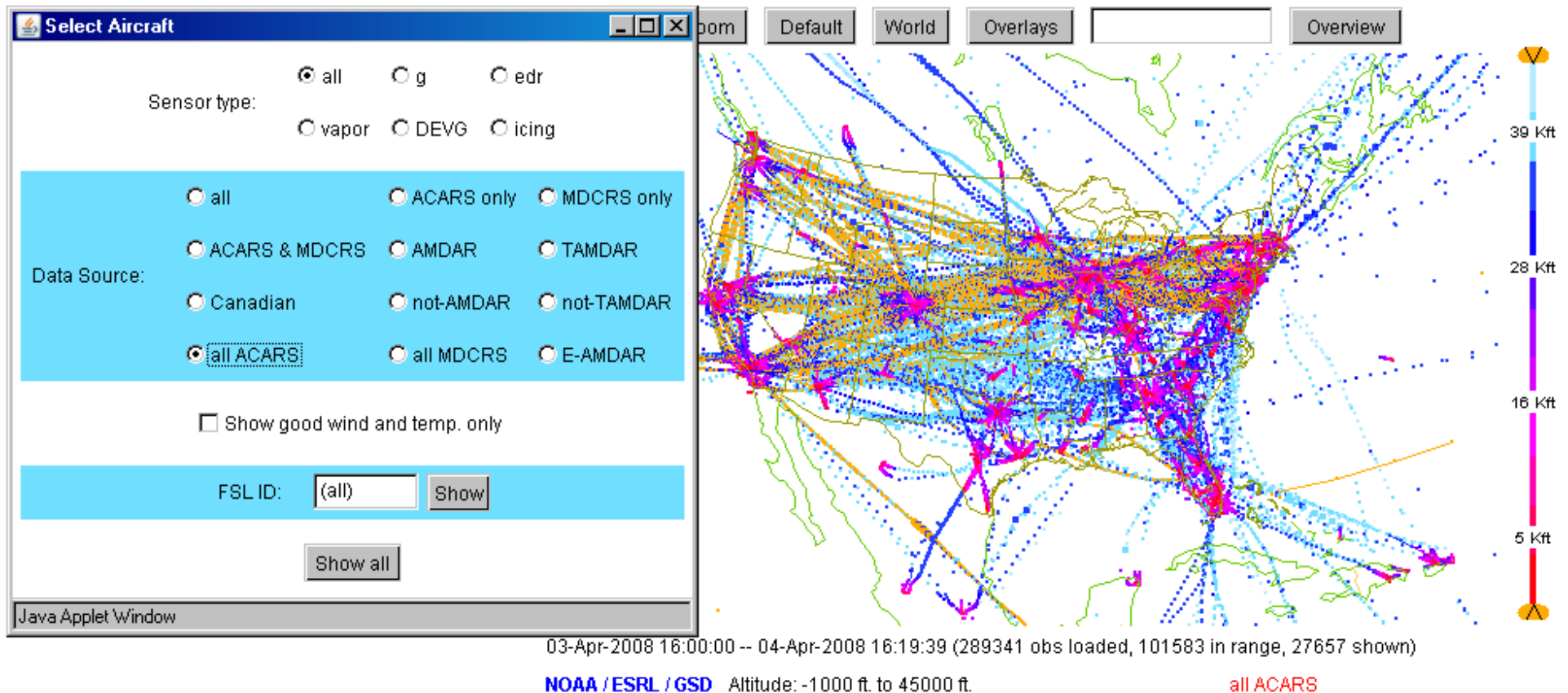
Not-TAMDAR Data Displayed



Not TAMDAR: All observations except from AirDat LLC/TAMDAR reports.

ESRL/GSD Java AMDAR Page

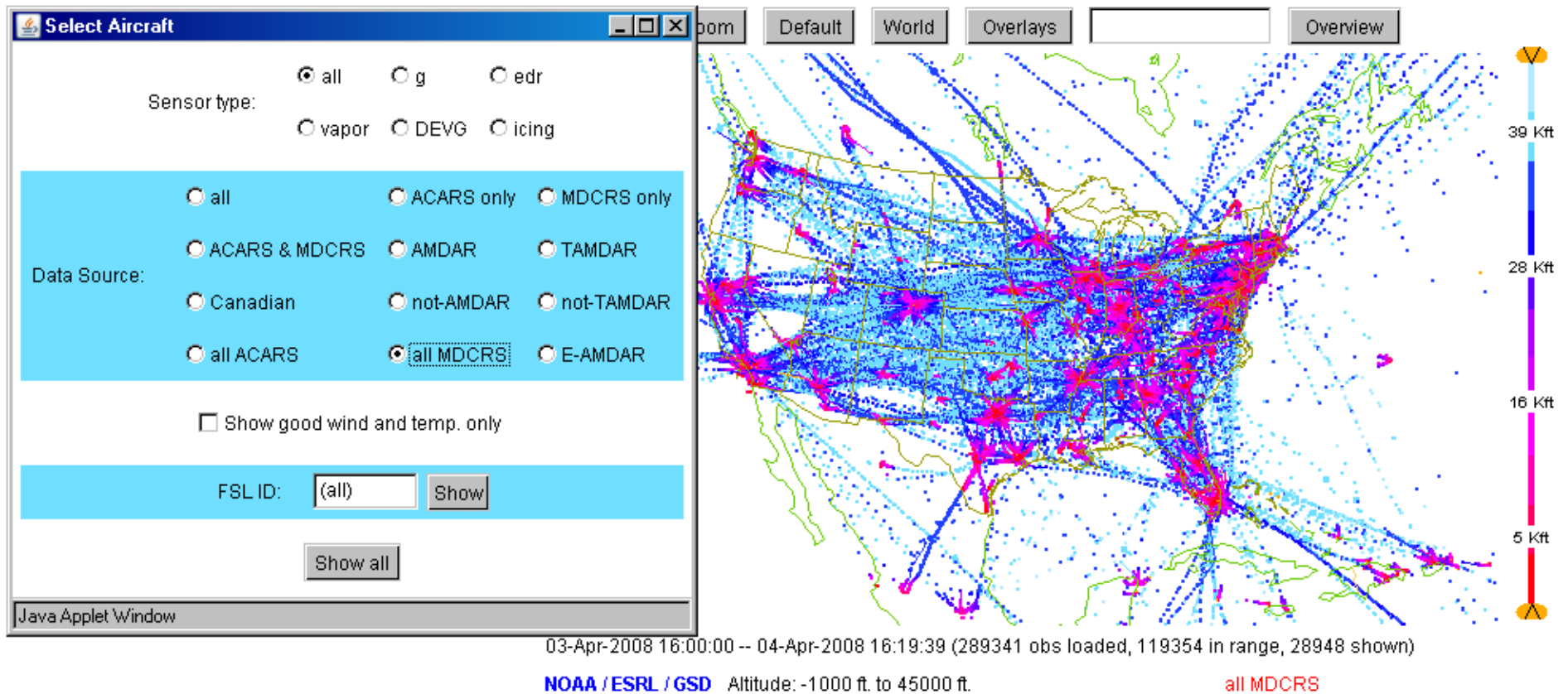
All AMDAR Data Displayed



All ACARS: Includes data duplicated in MDCRS. Note how this differs from ACARS only, which is ACARS data *not* in MDCRS.

ESRL/GSD Java AMDAR Page

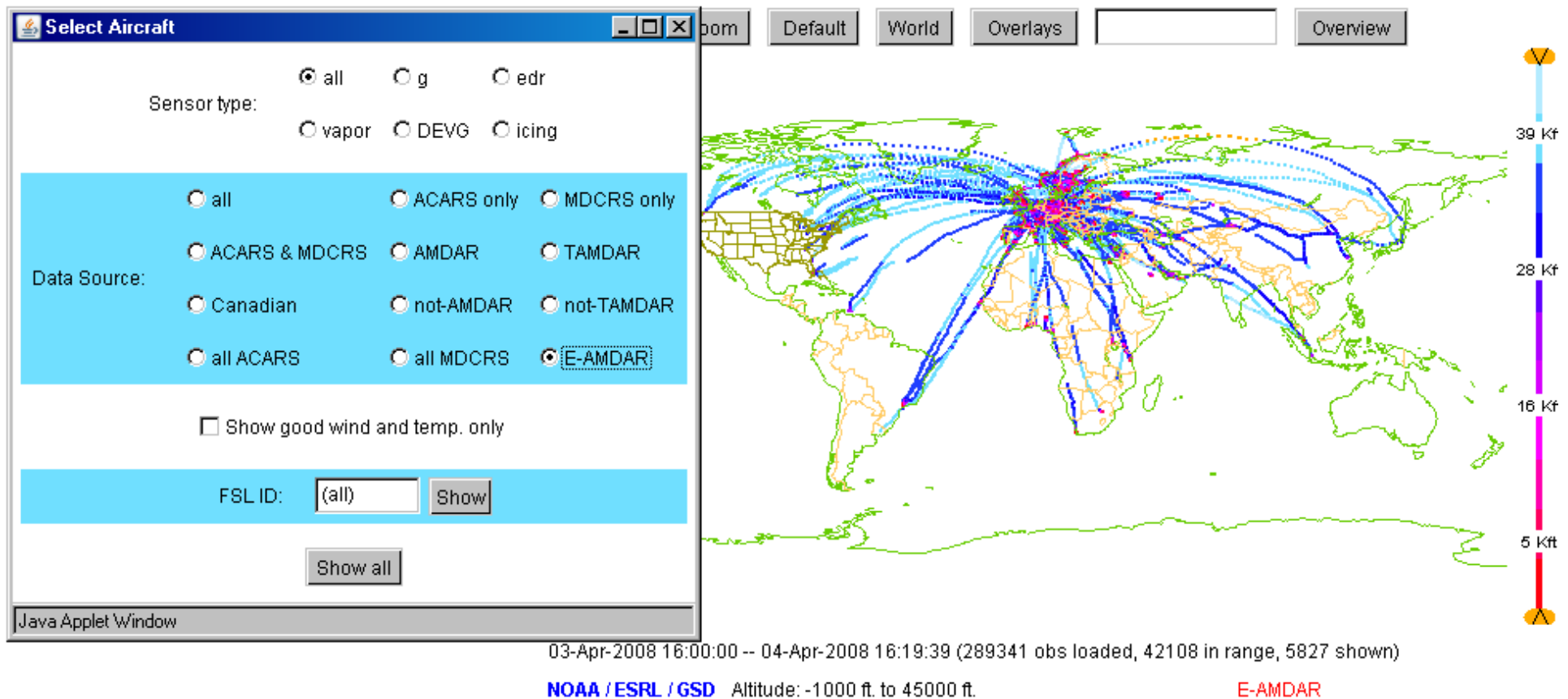
All MDCRS Data Displayed



All MDCRS: Includes data duplicated in ACARS. Note how this differs from MDCRS only, which is MDCRS data *not* in ACARS.

ESRL/GSD Java AMDAR Page

E-AMDAR Data Displayed



E-AMDAR: Data distribution available from EUCOS/E-AMDAR European Union and associated air carriers (Lufthansa, British Airways, Air France, etc)