Iowa Environmental Mesonet:
Supporting the real-time and research needs of the national severe weather community

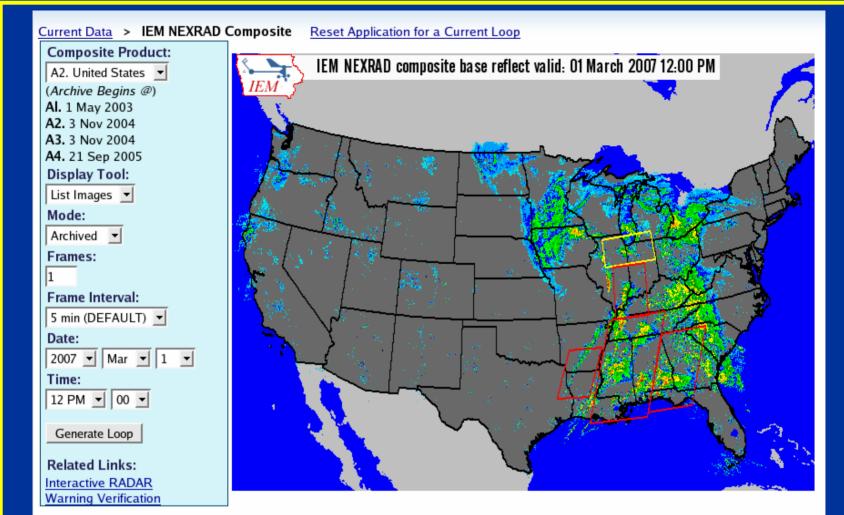
Daryl Herzmann

## What are you interested in?

	Real-time	Archived	
Level 2 NEXRAD	134 sites ONDAS compliant	NCDC 30 day TAMU	
NWS Warnings	Maps & full text GIS Shapefiles	Same apps have archive function > 1 Jun 2003	
Local Storm Reports (LSR)	Maps GIS Shapefiles	Same apps have archive function > 1 Jan 2003	
Bufkit Soundings	NWS websites	lowa+ > 1 Jan 2006 NAM,GFS,RUC	
Model data	Lots of places	GEMPAK Archive	
Surface data	Yeah, IEM ☺	Boatloads > 1945	
Satellite	GIS rasters	NOAA CLASS	
Sounding data	Lots of places	GEMPAK > 1950s	

# All done, have a nice day!

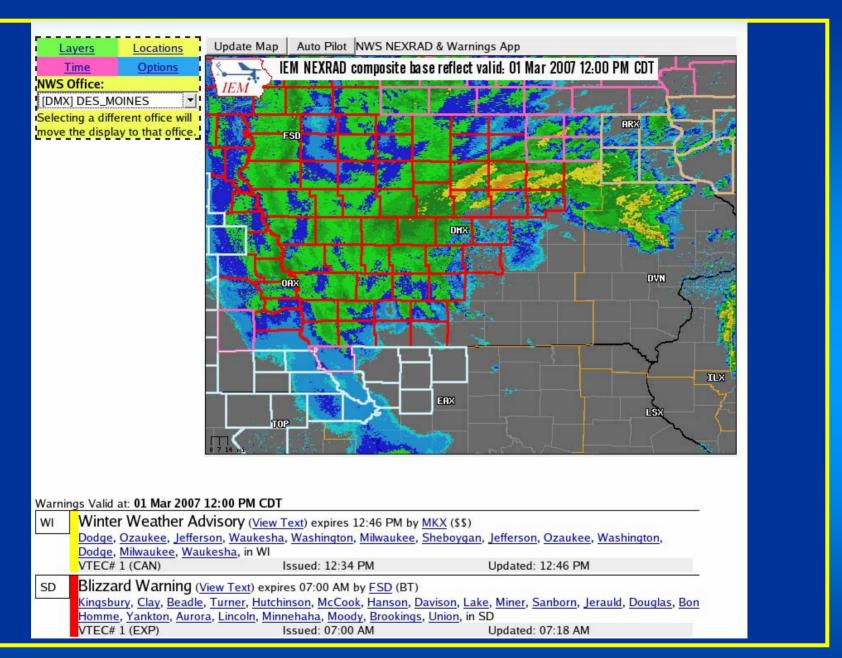
Oh, I have more time?

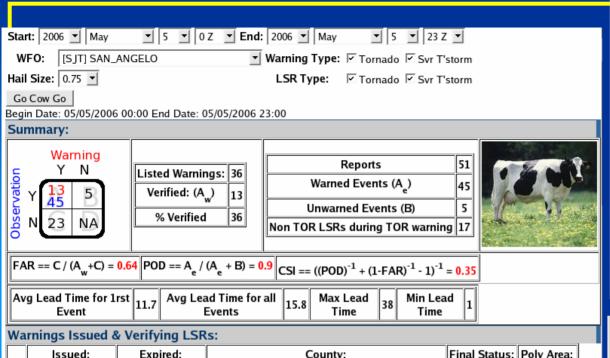


### GIS NEXRAD layers

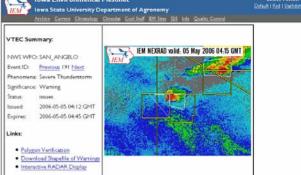
The NEXRAD layer used in these images are available in a georeferenced RASTER format. You will need this this world file to correctly georeference them. The projection of these images is geographic NAD83 (*unprojected*). You will need to rename the world file to match the filename of the RADAR layer before loading into your GIS.

http://mesonet.agron.iastate.edu/archive/data/2007/03/01/GIS/uscomp/n0r\_200703011800.png





	Issued:	Expired:	County:		Final Status:	Poly Area:
Isr	Valid	Lead Time:	County	City	Туре	Magnitude
<u>SV</u>	05/05/2006 00:09	05/05/2006 00:45	Concho,TX McCulloch,TX		<u>NEW</u>	2098 km^2
lsr	05/05/2006 00:17	8 minutes	Mcculloch,TX	<u>Melvin</u>	Hail	1
lsr	05/05/2006 00:32	23 minutes	Concho,TX	1 Nw Doole	Hail	1.75
<u>SV</u>	05/05/2006 00:14	05/05/2006 00:45	McCulloch,TX Mason,TX San Saba,TX		<u>NEW</u>	3157 km^2
lsr	05/05/2006 00:26	12 minutes	Mcculloch,TX	<u>Voca</u>	Hail	0.75
lsr	05/05/2006 00:32	18 minutes	Mason,TX	2 Ese Mason	Wind Gust	62
lsr	05/05/2006 00:35	21 minutes	Mason,TX	8 N Mason	Hail	1.75
<u>SV</u>	05/05/2006 00:29	05/05/2006 01:15	Tom Green,TX Sterling,TX		<u>NEW</u>	1413 km^2
lsr	05/05/2006 00:35	6 minutes	Sterling,TX	10 S Sterling City	Hail	2.75
lsr	05/05/2006 00:55	26 minutes	Tom Green,TX	17 Wnw Arden	Hail	4
<u>SV</u>	05/05/2006 00:31	05/05/2006 01:00	Concho,TX Coleman,TX McCulloch,TX Brown,TX		<u>NEW</u>	1155 km^2
<u>TO</u>	05/05/2006 00:42	05/05/2006 01:15	<u>Mason,TX</u>		<u>NEW</u>	794 km^2



### Text Product:

317 WUUS54 RSJT 050412

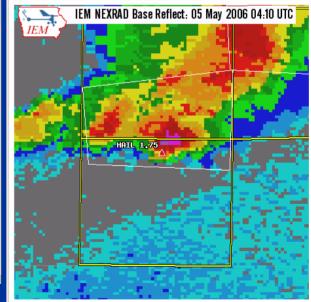
72C431-050445-/O.NEW.KSJT.SV.W.0191.060505T04122-060505T04452/

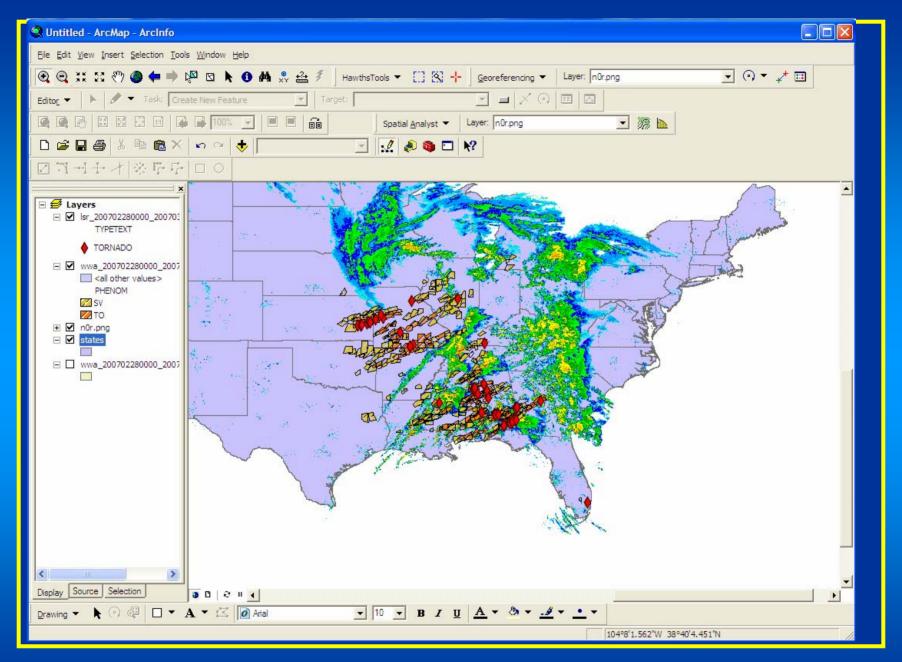
BULLETIN - EAS ACTIVATION REQUESTED SEVENE THUMDERSTORM WARNING NATIONAL WEATHER SERVICE SAN ANGELO TX 1112 PM CDT THU MAY 4 2006

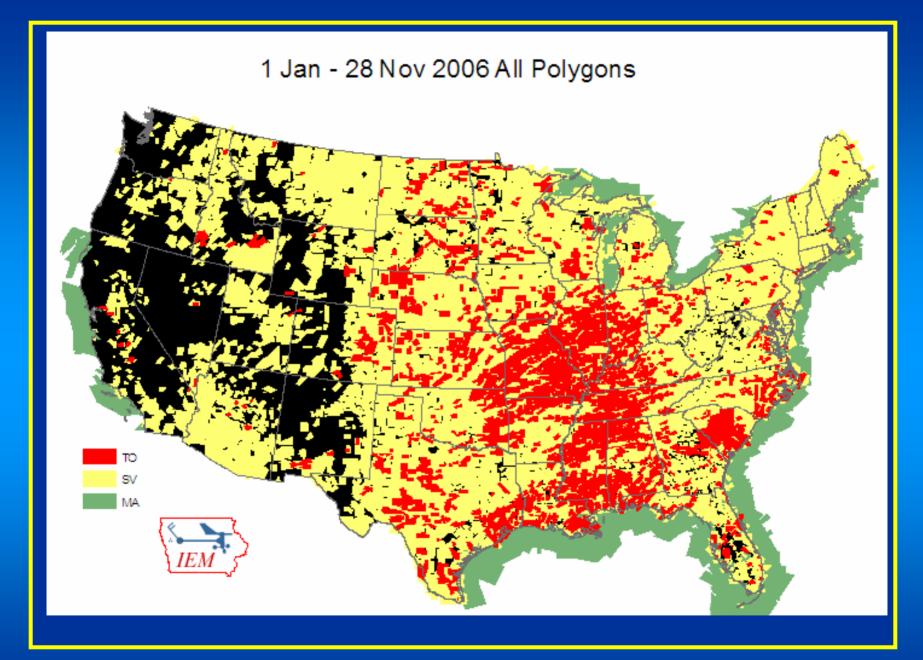
THE NATIONAL WEATHER SERVICE IN SAN ANGELO HAS ISSUED A

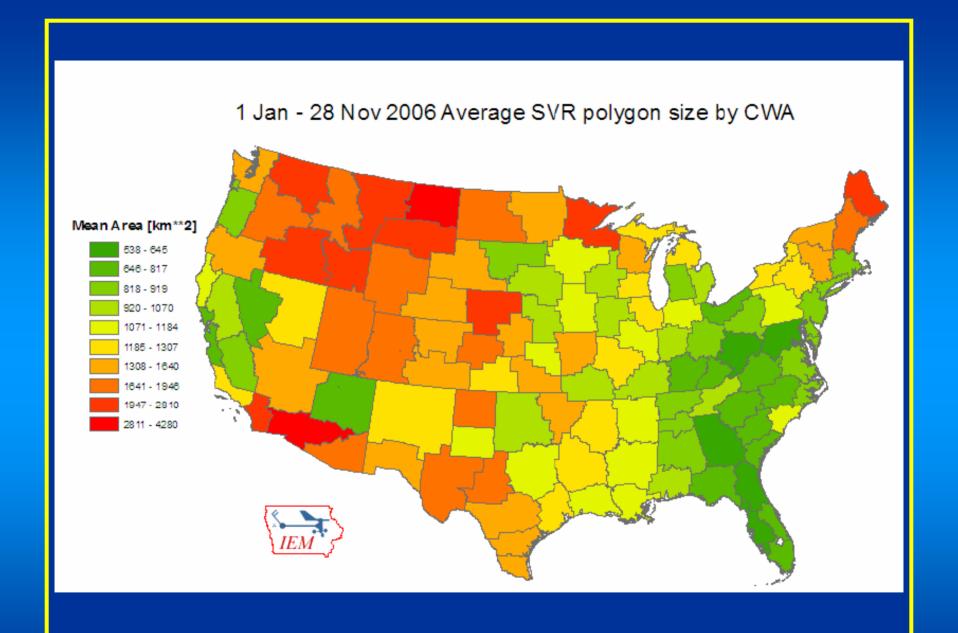
Iowa Environmental Mesonet

SEVERE THUNDERSTORM WARNING FOR...
 NORTHWESTERN STEPLING COUNTY IN MEST CENTRAL TEXAS



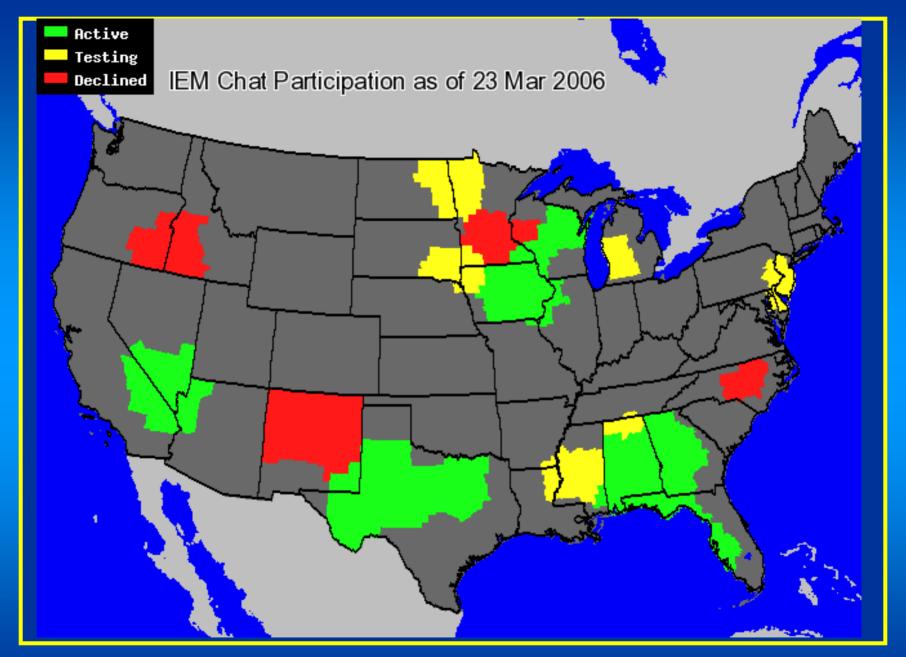


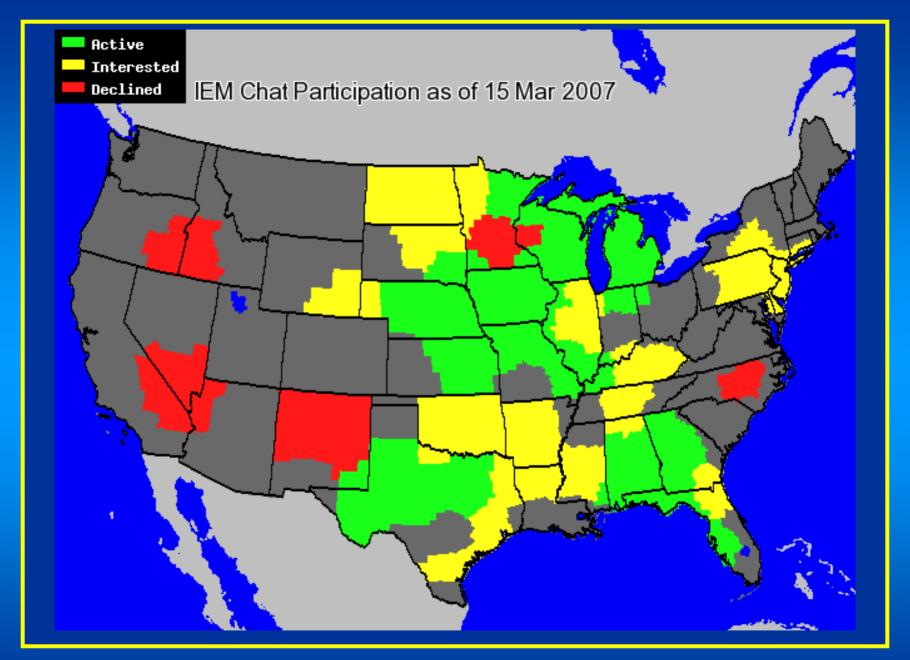




### Of course, IEM Chat

- A system to support the real-time collaboration of operational meteorologists and emergency management
- Standards based, open source software to do instant messaging
- Project launched June 2005
- 850+ accounts, ~200 TV stations, and 41
   WFOs are currently using it

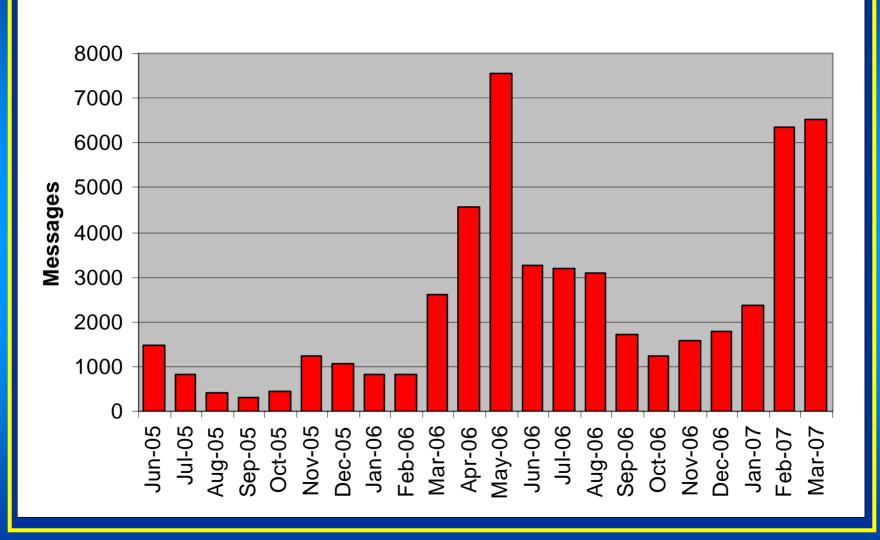


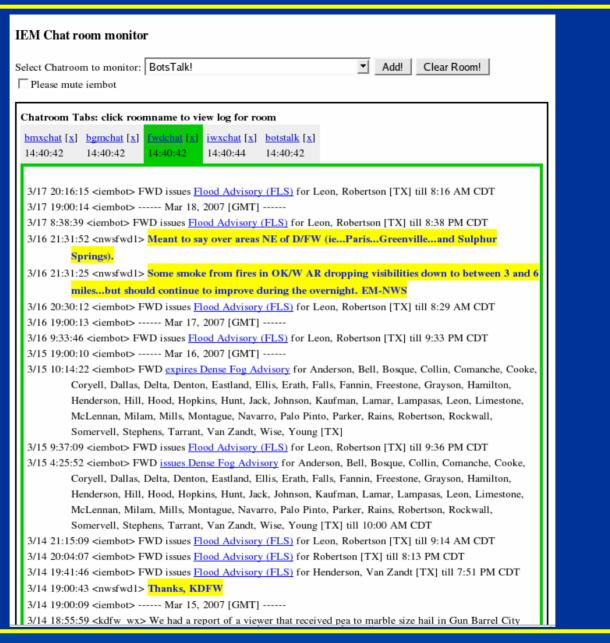


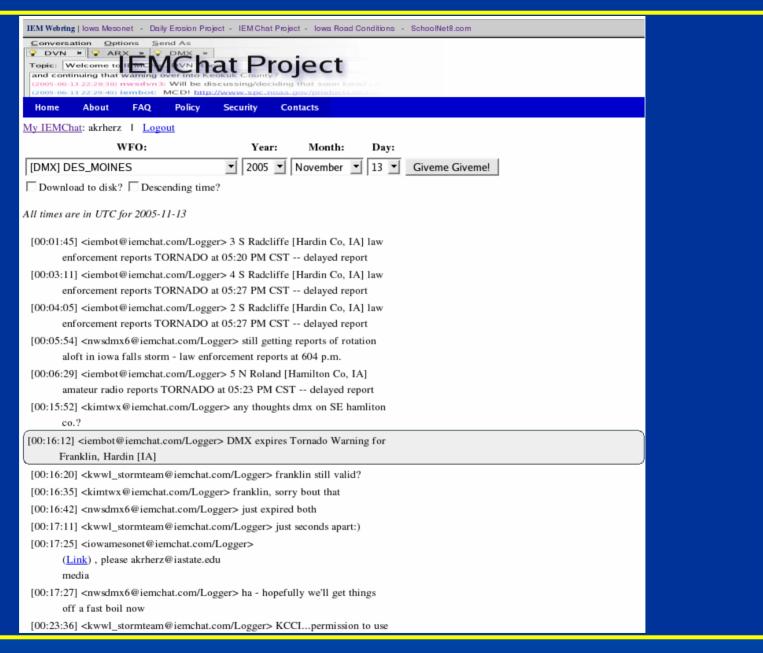
# Chatroom interaction (11/12/05)

[22:52:16] kcciwhite viewer confirms funnel/tor. report in luther area [22:52:19] iowamesonet 2 mile south of luther, farm house heavily damaged [22:52:44] nwsdmx6 ham radio reports luther tornado has begun to rope out [22:53:23] iembot 3 S Stratford [Hamilton Co, IA] trained spotter reports TORNADO at 04:36 PM CST --[22:55:19] iembot 1 E Woodward [Dallas Co, IA] county official reports TORNADO at 04:41 PM CST --[22:55:34] iowamesonet ISU spotters say former Luther tornado has dissipated [22:56:06] nwsdmx6 tor wrng for story co coming [22:56:24] iembot DMX issues Tornado Warning for Story [IA] till 5:30 PM CST [22:57:58] iembot DMX issues Tornado Warning for Franklin, Hamilton, Hardin, Wright [IA] till 5:45 PM CST [22:59:09] iowamesonet funnel on Ames cam [22:59:52] iowamesonet almost down [23:00:34] iembot Webster City [Hamilton Co, IA] public reports HAIL of 0.75 INCH at 04:50 PM CST --[23:02:00] wmt\_am got a citizens report of a tornado that touched down briefly just north of lincoln way in ames









# **About Historical Logs**

- IEMbot messages are shown at the time the product was issued by the NWS
- All links to IEM / SPC products should work
- Historical logs are "live", can download up to the minute

### You can't read this:

**IFM** Website

http://mesonet.agron.iastate.edu

**IEM Chat website** 

https://iemchat.com

**NOAA Class** 

http://class.noaa.gov

**Static Composites** 

http://mesonet.agron.iastate.edu/current/mcview.phtml

**Interactive Display** 

http://mesonet.agron.iastate.edu/GIS/apps/rview/warnings.phtml

GIS downloads (LSRs / warnings / radar)

http://mesonet.agron.iastate.edu/GIS/

Live Level2 NEXRAD data

http://mesonet.agron.iastate.edu/data/nexrd2/raw/

**IEM Cow** 

http://mesonet.agron.iastate.edu/cow/

Texas A&M 30day Level2 NEXRAD cache

http://mesonet.tamu.edu/products/RADAR/nexrad/CRAFT/

NCDC HAS (archived level2 and level3 nexrad)

http://hurricane.ncdc.noaa.gov/pls/plhas/has.dsselect

**IEM** Archive page

http://mesonet.agron.iastate.edu/archive/

# I'm done! Any questions?



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https://iemchat.com