

[00:00] <Frank> they are studying stones in Australia that they reckon are more than 3 billion years old
[00:00] <Annie> just a few more sips of coffee
[00:00] <Frank> they have been through the land to mantle cycle three times
[00:00] <Doos> ah, didn't know that fact
[00:00] <Catrix> Did Annie just get up?
[00:00] <Annie> and a cigi
[00:00] <Doos> smoking is good
[00:01] <Annie> oh, I get bad comments for smoking
[00:01] <Catrix> I quit!.... but I still miss it sometimes
[00:01] <Catrix> sigh
[00:01] <Frank> they say they have proof of open water on earth several billion years before they thought it appeared because of these stones...still got the water filled cavity inclusions
[00:01] <Doos> it's good for the economy and you'll die younger, so little healthcare necessary
[00:02] <Doos> where did you get that Frank
[00:02] <Frank> in the new scientist or some other science mag
[00:02] <Doos> online?
[00:03] <Frank> about six months ago...I meant to check it out farther but never got around to it
[00:03] <Catrix> So Zircon can have phase inclusions? like Emeralds...?
[00:03] <Frank> No in a mag
[00:03] <Annie> shall we start
[00:03] <Doos> yes Catrix
[00:03] <Doos> go ahead Annie
[00:03] <Catrix> neat
[00:03] <Annie> oh ok,
[00:04] <Annie> i am thinking to break down in chunks for you in 4 sections
[00:04] <Frank> These are tiny crystals Cat...as I say they have done the carbon cycle several times...but they are zircon and reckoned amongst the oldest surviving mineral specimens
[00:04] <Frank> sorry...please carry on Annie
[00:05] <Annie> lets start with general comments, some properties, then on to spectra and inclusions
[00:05] <Annie> is that ok
[00:05] <Frank> yes
[00:05] <Catrix> yup
[00:05] <Doos> sounds good to me
[00:05] <Annie> and a little on treatment
[00:05] <Annie> to make it easy
[00:06] <Annie> as you know, Zircon occurs in two extreme forms known as the HIGH and LOW or METAMICT
[00:07] <Annie> classification differing physical properties
[00:08] Last message repeated 1 time(s).
[00:08] <Annie> the low type breaks down its structure
[00:08] <Annie> radiation is supplied by uranium and thorium undergoes radioactive breakdown
[00:09] <Annie> as Frank said before - Breakdown of lattice is followed by absorption of water.
[00:09] <Annie> heating allows re-crystallisation of the stone through chemical reaction & dehydration
[00:09] <Frank> question
[00:09] <Annie> sure

[00:10] <Frank> when the stone is heated to regain recrystallisation does RI and SG also increase?

[00:10] <Annie> yes

[00:10] <Annie> it changes a little

[00:10] <Annie> i will come to that Frank

[00:10] <Annie> you are so smart

[00:10] <Frank> wheredoes the extra mass needed to increase SG come from?

[00:10] <Doos> it becomes a high zircon again, or almost high

[00:11] <Frank> sorry I'll sit quiet and listen

[00:11] <Annie> they are high

[00:11] <Annie> zircons, then they can break down its structure

[00:11] <Annie> will cover that

[00:11] <Annie> under porpoerties

[00:11] <Frank> ty

[00:12] <Annie> the only thing that doesn't change is the dispersion between two types

[00:12] <Annie> age o zircon may is measured or determined from uranium/lead isotope ratio.

[00:13] <Annie> they can be old in their age which confirms some to be

[00:13] <Annie> 500 million years for Ceylon zircon stones

[00:13] <Annie> or about 3000 million or so from Montana or even older

[00:14] <Annie> any questions

[00:14] <Annie> so far

[00:14] <Frank> no...;)

[00:14] <Doos> yes, what about Adam and Eve?

[00:14] <Annie> ok on to properties

[00:14] <Annie> tetragonal in its structure,

[00:15] <Annie> chemically zircon is zirconium silicate contains traces of uranium, thorium and rare earth elements

[00:15] <Annie> i suppose the forumula is $Zr Si O_4$ - you know

[00:15] <Doos> that is correct

[00:16] <Annie> the habit occurs square prisms terminated at ends by four sided pyramids

[00:16] <Annie> thanks Doos

[00:16] <Annie> sometimes sort of stretched or called pseudo octahedral habit \bar{n} twinning is sometimes the shape of a knee \bar{n} geniculate twin

[00:16] <Annie> is that ok

[00:17] <Frank> is the twinned shape at 90 degrees?

[00:17] <Catrix> like an L

[00:17] <Doos> yes, like rutil

[00:17] <Annie> yes

[00:17] <Frank> ok. thanks

[00:17] <Annie> the low type - as we call it

[00:18] <Annie> its structure breaking down from tetragonal to amorphous structure

[00:18] <Annie> yes

[00:18] <Doos> yes

[00:19] <Annie> is that clear

[00:19] <Annie> ?

[00:19] <Frank> would a metamict crystal retain it's external shape?

[00:19] <Annie> the low types are called metamict

[00:19] <Doos> yes Frank

[00:19] <Annie> yes

[00:20] <Frank> yes but if a crystal becomes metamict while in the ground would its external shape remain tetragonal even though it's internal structure was amorphous?

[00:20] <Frank> sorry typing after you've answered

[00:21] <Annie> yep

[00:21] <Frank> ty

[00:21] <Annie> the metamict colours become green,

[00:21] <Annie> some brown are also seen or orange

[00:22] <Annie> ok

[00:22] <Annie> colours of high is Red, brown, colourless or even the heated blues - ok

[00:23] Sara (~Sara@172.141.194.66) joined #go.

[00:23] <Doos> hi Sara

[00:23] <Annie> the high types R_i is high in the 1925 \bar{n} 1.984 - so therefore cannot be measured - off scale

[00:23] <Catrix> Hi Sara

[00:23] <Sara> Hello

[00:23] <Annie> hi Sara

[00:23] <Annie> sorry we have started, we should have waited

[00:23] <Frank> Hi Sara...ok Annie

[00:24] <Annie> the metamict is somewhere lower 1.780 \bar{n} 1.815 - ok

[00:24] <Frank> ok

[00:24] <Annie> the sg is usually 4.70 in high types

[00:24] <Annie> and usually around 4.00 in low types

[00:24] <Annie> i am referring to low but i mean the metamict - yes

[00:25] <Frank> yes

[00:25] <Doos> so the low types fall in the corundum range

[00:25] <Annie> yes, there are distinguishing features that can be separated

[00:25] <Doos> only they are not double refractive anymore

[00:25] <Annie> the low - or metamict ones are isotropic in their character

[00:26] <Annie> the high ones remain uniaxial

[00:26] <Annie> yes

[00:26] <Annie> *remain

[00:26] <Frank> yes

[00:26] <Catrix> ahhhh!

[00:26] <Doos> eureka moment Catrix?

[00:27] <Frank> isotropic or amorphous....which does the polariscope show...always dark or always light?

[00:27] <Catrix> maybe I need to test a stone I have

[00:27] <Annie> always dark

[00:27] <Doos> dark Frank

[00:27] <Frank> ty

[00:27] <Annie> when light through 360 deg. its cryptocrystalines

[00:27] <Annie> but its not the case with zircons

[00:27] <Annie> Franks, is that clear

[00:27] <Frank> ah yes..ok

[00:28] <Annie> so the high types - 4 x light and dark

[00:28] <Annie> amorphous ones 4 x dark

[00:28] <Annie> ok

[00:28] <Frank> ok

[00:28] <Annie> great

[00:28] <Catrix> so it will be all dark on the polariscope

[00:28] <Annie> Hi Sara,

[00:28] <Catrix> the low type.

[00:28] <Annie> you with us

[00:28] <Doos> the low type ones yes Cattrix
[00:28] <Annie> yes
[00:28] <Sara> Hello annie
[00:28] <Cattrix> heheheh cool
[00:28] <Sara> Happy new year
[00:29] <Annie> you too lovey, nice you could join us
[00:29] <Frank> are all low types green (or sometimes brown or orange)?
[00:29] <Annie> ñ the material is very brittle and abrades itself - regardless of its structure
[00:29] <Annie> mainly green, Frank
[00:29] <Frank> ty
[00:30] <Annie> Cut stones especially should be individually wrapped. Otherwise it will rub against each other and wears out
[00:30] <Annie> some treated ones tend to pit along the facet junctions or edges
[00:31] <Annie> are we clear on the properties
[00:31] <Frank> do they facet them first...then heat them?
[00:31] <Frank> yes clear
[00:31] <Annie> Doos, do you want to add anything
[00:31] <Cattrix> yep
[00:31] <Annie> yes,
[00:31] <Sara> No, but I'm half asleep
[00:31] <Doos> I'm good
[00:32] <Annie> ok
[00:32] <Cattrix> ohhh
[00:32] <Annie> i will do spectra now
[00:32] <Cattrix> Do the crystals occur on matrix of any kind?
[00:33] <Annie> gem material is usually recovered from gravels
[00:33] <Doos> no idea
[00:33] <Cattrix> ok... like Aluvial?
[00:33] <Annie> after weathering process has released them frm the original source
[00:33] <Sara> micro xls would be lovely
[00:33] <Annie> loose crysals can be picked up from the surface
[00:33] <Annie> so they are not attached
[00:34] <Cattrix> ok .. thanks!
[00:34] <Annie> i wasn't going into geology
[00:34] <Annie> but does that answer your question
[00:34] <Annie> ?
[00:34] <Cattrix> yes it does :)
[00:34] <Annie> ok great
[00:34] <Annie> let me know if you need to know anything else
[00:35] <Cattrix> spectra?
[00:35] <Annie> ok, the spectra is very interesting
[00:35] <Annie> because it can have up to 40 lines distributed across the spectrum
[00:36] <Annie> with strongest absorption taking place in range to red areas
[00:36] <Annie> especially the ones from Ceylon can have that and they are brown in colour
[00:36] <Annie> or sri lankan ones i should say
[00:37] <Annie> the 653.5 is always there
[00:37] <Doos> depends when they are mined
[00:37] <Annie> and that we call the zircon line
[00:37] <Annie> yes
[00:37] <Annie> the spectrum for high type is always sharp and well defined.
[00:38] <Annie> low type has same line but they is thicker and fuzzy

[00:38] <Annie> is that clear
[00:38] <Frank> yes
[00:38] <Catrix> yes
[00:38] <Annie> doos, anything to add
[00:38] <Annie> ?
[00:38] <Doos> spectra can also differ from location to location
[00:39] <Annie> sure
[00:39] <Doos> want to safe the heattreated ones till later?
[00:39] <Annie> i have seen one and when you have seen this typeof spectra is is quite unique with all the lines running across
[00:39] <Doos> yes very fun to watch
[00:40] <Catrix> it's pretty
[00:40] <Frank> only the blue heated ones are strongly dichroic?...does this mean that if you try to get a spectra along the colourless axis you won't see a spectra?
[00:41] <Doos> I'm not sure it's a clourless axis
[00:41] <Annie> the blue ones are a distinct colourless to greyish and sort of vivid sky blue dicrosim
[00:41] <Frank> blue and colourless are the two dichroic colours
[00:41] <Annie> yes
[00:42] <Frank> ok Annie on the colourless to greyish axis ...will the 653.5 line still be visible?
[00:42] <Annie> yes
[00:42] <Doos> not sure Frank, but I think it will have little effect on the spectrum
[00:42] <Frank> ty
[00:43] <Annie> the line is always there
[00:43] <Frank> ok
[00:43] <Catrix> Do the heat treated colorless ones stay clear or can they degrade back to some color?
[00:43] <Sara> Do you use the spectra to classify the age?
[00:43] <Annie> anyone seen Zircon under uv yet
[00:43] <Frank> no
[00:43] <Annie> we will come to heat treatment yet Cat
[00:43] <Sara> It's the thorium content that alters it over time, right?
[00:43] <Catrix> I have not
[00:43] <Catrix> ok! sorry ehehe
[00:44] <Annie> ok under LW - its dullish yellow
[00:44] <Frank> all colours?
[00:44] <Annie> SW - mustard yellow or yellow orange
[00:44] <Annie> Frank you mean "all colours"
[00:44] <Frank> yes
[00:45] <Annie> under UV - will fluoresce
[00:45] <Annie> is that clear for everyone
[00:45] <Frank> yes
[00:45] <Doos> Sara, uranium is the prime element for the spectrum
[00:46] <Catrix> yes
[00:46] <Annie> ok on to inclusions
[00:46] <Annie> high typos - usually clean -
[00:47] <Annie> low types, you will find angular zones and streaks
[00:47] <Annie> like needle likes
[00:47] <Doos> much like the zoning in corundum
[00:47] <Annie> or silk/fingerprint
[00:47] <Annie> yes and very sharp 90 deg angles of zones
[00:48] <Annie> some tnesion cracks

[00:48] <Annie> and epigenetically cracks which have made their way through afterwards
[00:48] <Annie> with stains of iron oxide
[00:48] <Frank> they rust? :)
[00:48] <Annie> and you may find some 2 phase type of inclusions also
[00:49] <Doos> Frank, iron is also a common impurity in zircon, so a rust indeed
[00:49] <Frank> lol...ok ty
[00:50] <Annie> ok
[00:50] <Frank> yes
[00:50] <Annie> Doos, anything to add
[00:51] <Doos> no, go on
[00:51] <Annie> ok Frank, Cat,, Sara, any questions
[00:51] <Frank> No I'm good
[00:52] <Catrix> ?THE inclusions are gas and water correct?
[00:52] <Catrix> soory I can't type.. lol
[00:52] <Catrix> or spell obvliously
[00:52] <Annie> its fine, do not worry about spelling
[00:52] <Annie> we get you
[00:52] <Annie> yes
[00:53] <Catrix> ok
[00:53] <Sara> my question related back to the spectrum fading
[00:54] <Annie> its not like the solid, gas and water like the emeralds
[00:54] <Sara> I just need coffee and can't really relay any thought with any sense of clarity
[00:54] <Annie> but 2 phas at least is a feature
[00:54] <Doos> that is caused by the metamict process Sara
[00:55] <Annie> ok
[00:55] <Catrix> ok
[00:55] <Annie> is everything clear so far
[00:55] <Catrix> ty
[00:55] <Frank> yes
[00:55] <Sara> yeah
[00:55] <Annie> Sara, do you have any questions or shall i go on
[00:56] <Sara> well, I forget the age of low middle and high off hand
[00:56] <Doos> middle is refered to as intermediate
[00:56] <Annie> yes, high, > intermediate> and then to low
[00:56] <Sara> not according to matlins, but ok
[00:57] <Annie> sorry, i do not understand your questions
[00:57] <Doos> Matlins is famous for her "easy to understand" syntax
[00:57] <Sara> There are age markers.
[00:57] <Sara> ...doesn't matter. I can look it up
[00:58] <Annie> no it does matter, Sara
[00:58] <Annie> what do you mean
[00:58] <Annie> the differences are very minute
[00:58] <Doos> I think she means how one can determine age
[00:58] <Sara> there's a time period that denotes the difference
[00:59] <Annie> yes, the age is measured in scientific determinttion
[00:59] <Annie> by calculatiing uranium and lead contents
[00:59] <Doos> the metamict process takes 1000's and 1000's of years, so the low types can be looked on as old ones
[00:59] <Frank> colour seems to mark them pretty much
[01:00] <Frank> or DR (or lack of it)...or fuzziness of spectra
[01:00] <Annie> colour is very distinctive yes,
[01:00] <Frank> or RI or SG
[01:01] <Doos> I'm not sure that will say much about exact age though

[01:01] <Sara> Are they sometimes heat treated to renew color?
[01:01] <Annie> the metamics of course is older
[01:01] <Annie> yes, Sara we are coming to that
[01:01] <Sara> ok
[01:01] <Sara> I'll be quiet then
[01:01] <Frank> but age is a uranium / lead isotrope thingy
[01:01] <Annie> and that will be the last portion of our discussion now
[01:01] <Doos> isotope
[01:01] <Annie> yes
[01:02] <Annie> lets get loud Sara,
[01:02] <Frank> phanks dooth
[01:02] <Annie> ask as many questions as you want
[01:02] <Sara> I speak jibberish better than english
[01:03] <Annie> ok if everyone is clear on what we said, lets move on to treatments
[01:03] <Sara> and translating is a lengthy process
[01:03] <Cattrix> me too :)
[01:03] <Frank> ok Annie
[01:04] <Annie> i am not an author that can translate everything in length in a short time
[01:05] <Annie> thats why we do need to refer to our text books and see what the famous people are saying
[01:06] <Annie> heating helps the re-crystallisation
[01:06] <Annie> process particular the metamict ones
[01:07] <Annie> and restores its structure back to tetragonal
[01:07] <Annie> this results back to high SG
[01:07] <Frank> where does the mass come from to cause an increase in SG?
[01:08] <Doos> dunno, maybe due to shrinking?
[01:08] <Frank> or is it just higher because of internal density differences?
[01:09] <Frank> I've been wondering about this for two days
[01:09] <Sara> It shrinks?
[01:09] <Doos> in the metamict ones the zrsio4 is split in zirconia and silica, so I think the mass increases, hence the sg drops
[01:09] <Annie> the heating temperatures can be used to revert
[01:10] <Doos> that is just a guess though
[01:10] <Frank> makes sense though...it could certainly explain it
[01:10] <Annie> they can heat it to 1/12 hours to about 1000 deg
[01:11] <Sara> F or C?
[01:11] <Annie> in a reducing or inert atmosphere
[01:11] <Doos> C
[01:11] <Annie> Celcius
[01:11] <Sara> That's not so bad
[01:11] <Annie> Some colours can be acheieved
[01:11] <Annie> like heating green zircons can make it paler
[01:11] <Sara> You have a kiln, right frank?
[01:11] <Annie> some red brownish stones become colourless
[01:12] <Annie> or red brown Thai material can turn colourless or
[01:12] <Annie> blue or golen yellow
[01:12] <Frank> in progress...but yes 1000degrees C is easy for a kiln
[01:12] <Annie> some irradiation is done on Aussii stones red stones followed by further heating makes them generally darker
[01:13] <Frank> is it only the Thai ones that turn blue?....how red can they be?
[01:14] <Doos> mostly they come from Indo-China .. that is a large area that includes Thailand
[01:14] <Annie> thats where they are mainly found

[01:14] <Frank> ty...and how red? like a ruby?...always with a brown tint?
[01:15] <Doos> more brown
[01:15] <Frank> ok
[01:15] <Doos> an awfull colour for a gem
[01:15] <Annie> mixed redish browns
[01:15] <Frank> ok
[01:15] <Doos> like the new painites
[01:16] <Sara> I happen to like that color
[01:16] <Doos> not me
[01:17] <Sara> You have terrible taste in color
[01:17] <Doos> heh
[01:17] <Annie> Doos, you wantyed to say more on treatments
[01:17] <Doos> are you done with your part?
[01:17] <Frank> is the irridation and / or heat treatment permanent?
[01:17] <Doos> no frank
[01:18] <Doos> although very stable
[01:18] <Annie> stable enough to be permanent
[01:18] <Frank> is it skin deep or all the way through the stone
[01:18] <Catrix> So colorless Might revert? or not
[01:18] <Sara> it eventually ages again? Same length of time?
[01:18] <Doos> long exposure to sunlight of UV can turn the stones back to reddish brown
[01:18] <Sara> or ratio, whichever
[01:18] <Catrix> oh...
[01:18] <Frank> bummer huh
[01:19] <Sara> What's with all the vampire stones?
[01:19] <Doos> so be carefull with the UV lamps on the treated ones (that is blue, colourless and golden stones)
[01:19] <Catrix> lol
[01:19] <Doos> but that can be retored again by heating
[01:19] <Frank> is the colour only on the surface
[01:19] <Doos> restored
[01:19] <Doos> through and through
[01:20] <Frank> even the irradiated stones?
[01:20] <Sara> What if you did so intentionally? How long would it take under uv to revert the reversion?
[01:20] <Doos> that I dont know .. Annie?
[01:20] <Annie> dunno
[01:20] <Frank> ok one to keep in the pot
[01:20] <Doos> give it a try Sara and tell us
[01:20] <Sara> I will
[01:21] <Sara> sunny florida
[01:21] <Sara> well, what about sw v lw?
[01:21] <Sara> what would be better for an indoor test?
[01:21] <Frank> lol....as Sara starts turning all the treated stones back to brown
[01:21] <Doos> some dull blue stones can become more blue by heating them with a torch to fiery red
[01:21] <Sara> It's because doos said they were ugly
[01:22] <Doos> the spectra of the treated stones can also be reduced to just a few lines in the red
[01:22] <Doos> or completely missing in the golden ones
[01:23] <Doos> there are also natural colourless stones from Ceylon
[01:23] <Doos> they were named "matara diamonds"
[01:23] <Frank> the blue and golden ones....do they show high DR?

[01:23] <Doos> so if you ever see that phrase on ebay, you know they are zircons
[01:23] <Annie> i'd rather not use the misnomer ones
[01:23] <Doos> they are heated, so yes Frank
[01:24] <Doos> just so they know Annie
[01:24] <Frank> so with such widely varied properties being available what is
the best way to ID them?
[01:24] <Annie> yes i know,
[01:24] <Annie> the detection is simple Frank
[01:24] <Doos> the yellowish-red were named hyacinth, but that has been used for
too many other stones aswell
[01:24] <Annie> that was going to be the last portion of this lecture at this
stage
[01:25] <Doos> ok, go ahead Annie
[01:25] <Frank> yes please
[01:25] <Annie> finish off your part
[01:25] <Doos> I'm done
[01:26] <Annie> The RI for high types is usually ' off the scale'
[01:26] <Annie> very strong doubling due to BR can be as high as 0.059
[01:26] <Annie> for high types
[01:27] <Annie> the distinction of your zircon lines 653.5
[01:27] <Annie> and of course SG 4.70
[01:27] <Annie> low ones, the polariscope, Ri - isotropic
[01:27] <Annie> chelsea filter - red
[01:28] <Annie> and colour of stone
[01:28] <Frank> why would they show red in the chelsea ?
[01:29] <Annie> knowing the chemically they don't contain chromium
[01:29] <Annie> they do show up red,
[01:29] <Frank> yes
[01:29] <Annie> the rare earth elements have something to do with it
[01:29] <Annie> but i would not be able to explain at this stage, Frank
[01:29] <Doos> maybe the iron
[01:29] <Frank> ah...I have a couple of green ones but I never tried that
[01:30] <Doos> although that would dull it
[01:30] <Annie> ok, you can try
[01:30] <Frank> This has been a great lesson Annie...You and Doos have covered
so much stuff that isn't in any of my books
[01:31] <Frank> as usual
[01:31] <Doos> yw
[01:31] <Annie> Frank, I lost a few of you's durng
[01:31] <Catrix> Ditto!
[01:31] <Annie> during the session,
[01:31] <Sara> too bad I was late
[01:31] <Annie> and if it wasn't clear,
[01:31] <Frank> you can get the start of the log Sara
[01:32] <Annie> please consult your websters
[01:32] <Frank> lol...I don't have a websters yet...I just get along with my
Annie
[01:33] <Annie> oh Frank, that is sweet,
[01:33] <Annie> but I am no where near webster
[01:33] <Frank> your welcome :)
[01:33] <Frank> me neither Annie
[01:33] <Doos> a point off order .. next week there is a guestchat, so no lesson
[01:33] <Catrix> I am going to be polariscoping my green zircons tonight... :)
[01:34] <Annie> and another tip
[01:34] <Catrix> who is the guest?

[01:34] <Sara> Vincent?
[01:34] <Doos> Vincent (and maybe Hughes)
[01:34] <Sara> Same time?
[01:34] <Doos> no in the evening for you, check the forum
[01:34] <Sara> ok
[01:35] <Sara> What's the topic?
[01:35] <Doos> in the afternoon for Annie and 4 am for Frank and I
[01:35] <Doos> we'll wing it, his traveling sounds exciting
[01:36] <Sara> thought that was probably the case
[01:36] <Sara> Okie dokie
[01:36] <Doos> but please read his websites, I'll make a second announcement
[01:36] <Sara> Why the hell would you schedule a chat that begins at 4 am for you?
[01:36] <Doos> so most people can attend
[01:36] <Sara> that's 11 for me
[01:37] <Sara> 9 for the west coast
[01:37] <Doos> 10
[01:37] MoDo (~MoDo@69.254.194.69) joined #go.
[01:37] <Sara> I don't know anymore with the time change
[01:37] <Doos> 10 on the east coast
[01:37] <Doos> hi MoDo
[01:37] <MoDo> Am I late?
[01:37] <Catrix> Hi MoDo
[01:37] <Sara> what time is it there now?
[01:37] <Doos> nah MoDo, we just finished
[01:37] <Annie> Hi MoDo
[01:38] <Doos> in 1:40 AM here now
[01:38] <MoDo> Aw, heck! What time was it?
[01:38] <Sara> I thought it was six hours, then with the change it was 5
[01:38] <Sara> 6?
[01:38] <Doos> still 6 hours Sara
[01:38] <Sara> ok
[01:38] <Sara> I thought these things used to start at five
[01:38] <Sara> then it was six
[01:39] <Doos> we are 6 hours apart
[01:39] Frank_ (~Frank@172.186.120.202) joined #go.
[01:39] <MoDo> Hi, Frank
[01:39] <Doos> got kicked out again Frank_
[01:39] <Frank_> hey Modo
[01:39] <Frank_> bloody AOL
[01:39] Frank (~Frank@172.211.150.189) left irc: Ping Timeout
[01:39] <Sara> poor frank
[01:40] <Doos> did you get the part about the guestchat next week Frank_?
[01:40] <Frank_> yes fraid so...takes forever to dial up a connection and get back in
[01:40] <MoDo> Okay, so I'm having EST-MST confusion
[01:40] <Frank_> No who is it?...Vincent?
[01:40] <Doos> there is a time converter in the announcement, you can find your time in it
[01:40] <Doos> yes Frank_
[01:40] <Sara> it'll be at 10 eastern next week
[01:40] <Doos> but at 4am for us
[01:41] <Sara> wait, you're in arizona
[01:41] <Frank_> Bah
[01:41] <Sara> so 7?

[01:41] <Doos> sorry
[01:41] <Frank_> Sunday morning?
[01:41] <Doos> yah
[01:41] <Sara> I think you're three hours behind me
[01:41] <Frank_> Thats BAD planning doos
[01:41] <Sara> It really is
[01:41] <Doos> check the timeconverter to be sure Sara and MoDo
[01:41] <Sara> What time is that in thailand?
[01:41] <Doos> Frank_, no other way
[01:41] <Doos> 10AM in Thailand
[01:41] <Sara> I don't have to and I don't want to
[01:41] <MoDo> Okay...10 EST will be 8 MST for me.
[01:41] <Sara> I never have, and I never will
[01:42] <Frank_> does'nt he visist his Mom in France...we could have done it
then :)
[01:42] <Doos> lol
[01:42] <Doos> okay guys, bed time for me
[01:42] <Doos> thanks all
[01:42] <Sara> 6 am would've been better
[01:42] <Frank_> and me
[01:42] <Doos> thanks Annie for the great lesson
[01:42] <MoDo> Nite, Doos
[01:42] <Frank_> great lesson Annie...Doos
[01:43] <Sara> Thanks to both of you
[01:43] <Catrix> Great Chat
[01:43] <Frank_> love ya all...
[01:43] <Annie> you are all welcome
[01:43] <MoDo> I'll have to read it.
[01:43] <Doos> hugs Annie, Catrix, MoDo and Sara
[01:43] <Doos> kiss Frank_
[01:43] <Catrix> I have to go cook dinner,,,, BAH HUMBUG
[01:43] <Doos> zzzzz
[01:43] <Catrix> HUG all
[01:43] <Annie> hugs
[01:43] <Frank_> get that tongue out doos
[01:43] <MoDo> TTFN
[01:43] <Sara> *hugs*