

Some Notes about LDE from G- QRP- C Forum

Date: 2 December 2010 11:27

Subject: [GQRP] Long delay echos

Mailing list: <GQRP.yahoogroups.com>

Just seen the link to the long delay echos from Peter Brogl, DK6NP on the Southgate Amateur radio website:

http://www.southgatearc.org/news/december2010/long_delay_echoes.htm

I've not yet seen anything about the power he used or details showing if the echoes spaces were EXACTLY the same on each transmission. A detailed comparison between the transmitter and echo keying envelopes may confirm that they really came from DK6NP's transmitter and not some elaborate hoax. If genuine, surely this is a remarkable and tangible example of this very odd (and rare?) phenomenon.

Regards,

Ian, G4JQT

Date: 2 December 2010 14:45

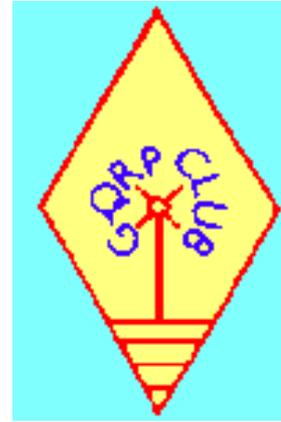
Subject: [GQRP] Re: Long delay echos

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At the peak of recent sunspot cycles it was not that unusual to hear echoes on 10m from signals that had gone around the globe both ways even several times. One could certainly envisage occasions when signals get trapped between some ionospheric layers and eventually "escape" back to earth - like a very extended chordal hop.

73s

Roger G3XBM



**Logo G-QRP-C
(Credit Line:**

<http://www.zerobeat.net/g3ycc/club.htm>)

Date: 2 December 2010 15:40

Subject: Re: [GQRP] Long delay echos

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See also:

Did you hear Long Delayed Echos on November 27 ?
http://www.southgatearc.org/news/december2010/ide_reports_wanted.htm

Long Delayed Echos on TV

http://www.southgatearc.org/news/december2010/ide_on_tv.htm

73 Trevor M5AKA

GQRP Club

<http://www.gqrp.com/>

ANTENTOP- 02- 2010, # 014

Date: 2 December 2010 17:44
Subject: [GQRP] Re: Long delay echos
Mailing list: <GQRP.yahoogroups.com>

I have always had a fascination with the subject of LDE's and also just heard about this event.

I have heard very short echos before. However, this past weekend during the contest on Saturday evening I heard what I thought was a LDE in the range of 2 to 4 seconds. It was on 40 meters and I had just tuned in a station and it sounded like whatever that station was sending was being repeater that 2 to 4 seconds later. The echo interfered with the original but was slightly off frequency but even at that I didn't manage to get the call sign. It was a German call sign but not DK6NP that I recall.

I was otherwise distracted by the contest at the time and didn't give it much more thought til today when I stumbled some of the reports of Peter Brogl's experience. Makes me wish I had paid more attention.

Cheers, Graham ve3gtc



**China Power Automobile Relay.
Inside View**

Some Notes about LDE from G- QRP-C Forum

Date: 3 December 2010 06:51
Subject: Re: [GQRP] Re: Long delay echos
Mailing list: <GQRP.yahoogroups.com>

I remember hearing echoes as a not unusual occurrence back in my days as a broadcast band SWL in the early 60s.

These were on AM commercial broadcast stations, if I recall correctly, on the 49mtr and 41mtr bands. I was using an old EKCO valve domestic receiver and I remember talking to my 'tame' local radio amateur who pooh-poohed the whole idea based on "I haven't heard them on my equipment so they can't exist". He was convinced I was wrong but I knew what I had heard was real.

The echoes weren't terribly delayed, maybe no more than 1 or 2 seconds but the effect was reminiscent of the old early tape loop echo chambers used in the music business.

I seem to recall, though through the distorting fog of age, reading about this effect some years later suggesting that it was similar to total internal reflection in light travelling through a refractive medium.

Now I suppose that if (and bear with my somewhat hairbrain hypothesis here) a radio wave got injected into the atmosphere and then, due to some abnormal atmospheric condition was repeatedly bounced up and down between two similar levels of refraction as it travelled around the earth until it emerged at a point of lower refractive index, then that possibly might create the effect observed.

Something similar is, as I understand, the manner by which light is fed down fibre optic cables without it emerging from the sides.

Far fetched possibly but I just wonder.....

Slim Haines G4IPZ

More about LDE and Strange phenomenon of the Propagation read at AntenTop Magazine:

http://www.antentop.org/book/c_LDE.htm

http://www.antentop.org/book/c_propagation.htm