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Permanent Link to GNSS and Radio Astronomical Observations

2021/06/16

An alternative tool for detecting underground nuclear explosions? By Dorota A. Grejner-Brzezinska, Jihye Park, Joseph Helmboldt, Ralph R. B. von Frese, Thomas Wilson, and Jade Morton Well-concealed underground nuclear explosions may go undetected by International Monitoring System sensors. An independent technique of detection and verification may be offered by GPS-based analysis of local traveling ionospheric disturbances excited by an explosion. Most of the work to date has been at the research demonstration stage; however, operational capability is possible, based on the worldwide GPS network of permanently tracking receivers. This article discusses a case study of detecting underground nuclear explosions using observations from GPS tracking stations and the Very Large Array radio telescope in New Mexico. More than 2,000 nuclear tests were carried out between 1945 and 1996, when the Comprehensive Nuclear Test Ban Treaty was adopted by the United Nations General Assembly. Signatory countries and the number of tests conducted by each country are the United States (1000+), the Soviet Union (700+), France (200+), the United Kingdom, and China (45 each). Three countries have broken the de facto moratorium and tested nuclear weapons since 1996: India and Pakistan in 1998 (two tests each), and the Democratic People's Republic of Korea (DPRK) in 2006 and 2009, and most recently, in 2013. To date, 183 countries have signed the treaty. Of those, 159 countries have also ratified the treaty, including three nuclear weapon states: France, the Russian Federation, and the United Kingdom. However, before the treaty can enter into force, 44 specific nuclear-technology-holder countries must sign and ratify. Of these, India, North Korea and Pakistan have yet to sign the CTBT, and China, Egypt, Iran, Israel, and the United States have not ratified it. The treaty has a unique and comprehensive verification regime to make sure that no nuclear explosion goes undetected. The primary components of the regime are: The International Monitoring System: The IMS includes 337 facilities (85 percent completed to date) worldwide to monitor for signs of any nuclear explosions. International Data Center:

The IDC processes and analyzes data registered at IMS stations and produces data bulletins. Global Communications Infrastructure: This transmits IMS data to the IDC, and transmits data bulletins and raw IMS data from IDC to member states.

Consultation and Clarification: If a member state feels that data collected imply a nuclear explosion, this process can be undertaken to resolve and clarify the matter.

On-Site Inspection: OSI is regarded as the final verification measure under the treaty.

Confidence-Building Measures: These are voluntary actions. For example, a member state will notify CTBTO when there will be large detonations, such as a chemical explosion or a mining blast. The IMS (see Figure 1) uses the following state-of-the-art technologies. Numbers given reflect the target configuration: Seismic: Fifty primary and 120 auxiliary seismic stations monitor shockwaves in the Earth. The vast majority of these shockwaves — many thousands every year — are caused by earthquakes. But man-made explosions such as mine explosions or the North Korean nuclear tests in 2006, 2009, and 2013 are also detected. Hydroacoustic: As sound waves from explosions can travel extremely far underwater, 11 hydroacoustic stations “listen” for sound waves in the Earth oceans. Infrasound: Sixty stations on the surface of the Earth can detect ultra-low-frequency sound waves that are inaudible to the human ear, which are released by large explosions. Radionuclide: Eighty stations measure the atmosphere for radioactive particles; 40 of them can also detect the presence of noble gas. Figure 1. The International Monitoring System (IMS): worldwide facilities grouped by detection technologies used. Only the radionuclide measurements can give an unquestionable indication as to whether an explosion detected by the other methods was actually nuclear or not. The observing stations are supported by 16 radionuclide laboratories. Since radionuclide detection method provides the ultimate verification as far as the type of blast goes, it should be mentioned that while the 2006 North Korean event (yield of less than a kiloton) was detected by the IMS stations in more than 20 different sites within two hours of detonation, and both seismic signal and radioactive material were detected, the 2009 event (yield of a few kilotons) was detected by 61 IMS stations; seismic and infrasound signals were detected, but no radioactive material was picked up by the radionuclide stations. Seismic signal was consistent with a nuclear test, but there was no “ultimate” proof by the radionuclide method. Thus, well-concealed underground nuclear explosions (UNEs) may be undetected by some of the IMS sensors (such as the radionuclide network). This raises a question: Is there any other technology that is readily available that can detect and discriminate various types of blasts, particularly those of nuclear type? Recent experiments have shown that an independent technique of detection and verification may be offered by GPS-based analysis of local traveling ionospheric disturbances (TIDs) excited by an explosion. GNSS-Based Detection Atmospheric effects from mostly atmospheric nuclear explosions have been studied since the 1960s. The ionospheric delay in GNSS signals observed by the ground stations can be processed into total electron content (TEC), which is the total number of electrons along the GNSS signal’s path between the satellite and the receiver on the ground. The TEC derived from the slant signal path, referred to as the slant TEC (STEC), can be observed and analyzed to identify disturbances associated with the underground nuclear explosion. STEC signature (in spectral and/or spatial-temporal domains) can be analyzed to detect local traveling ionospheric disturbances (TID). TID can be excited by acoustic gravity waves from a point source, such as surface or

underground explosions, geomagnetic storms, tsunamis, and tropical storms. TIDs can be classified as Large-Scale TID (LSTID) and Medium-Scale TID (MSTID) based on their periods regardless of the generation mechanism. The periods of LSTIDs generally range between 30–60 minutes to several hours, and those of MSTIDs range from 10 to 40 or even 60 minutes. LSTIDs mostly occur from geophysical events, such as geomagnetic storms, which can be indicated by global Kp indices, while MSTIDs are generally not related to any high score Kp indices. An underground nuclear explosion can result in an MSTID. TIDs are generated either by internal gravity wave (IGW) or by acoustic gravity wave (AGW). The collisional interaction between the neutral and charged components cause ionospheric responses. The experimental results indicate IGWs can change the ozone concentration in the atmosphere. In the ionosphere, the motion of the neutral gas in the AGW sets the ionospheric plasma into motion. The AGW changes the iso-ionic contours, resulting in a traveling ionospheric disturbance. The past 10–15 years has resulted in a significant body of research, and eventually a practical application, with worldwide coverage, of GPS-based ionosphere monitoring. A significant number of International GNSS Service (IGS) permanent GNSS tracking stations (see Figure 2) form a powerful scientific tool capable of near real-time monitoring and detection of various ionospheric anomalies, such as those originating from the underground nuclear explosions (UNEs). Figure 2. The IGS global tracking network of 439 stations. The network is capable of continuously monitoring global ionospheric behavior based on ionospheric delays in the GNSS signals. The GNSS signals are readily accessible anywhere on Earth at a temporal resolution ranging from about 30 seconds up to less than 1 second. A powerful means to isolate and relate disturbances observed in TEC measurements from different receiver-satellite paths is to analyze the spectral coherence of the disturbances. However, in our algorithms, we emphasize the spatial and temporal relationship among the TEC observations. Spatial and temporal fluctuations in TEC are indicative of the dynamics of the ionosphere, and thus help in mapping TIDs excited by acoustic-gravity waves from point sources, as well as by geomagnetic storms, tropical storms, earthquakes, tsunamis, volcanic explosions, and other effects. Methodology of UNE Detection Figure 3 illustrates the concept of the generation of the acoustic gravity wave by a UNE event, and its propagation through the ionosphere that results in a traveling ionospheric disturbance (TID). The primary points of our approach are: (1) STEC is calculated from dual-frequency GPS carrier phase data, (2) after eliminating the main trend in STEC by taking the numerical third order horizontal 3-point derivatives, the TIDs are isolated, (3) we assume an array signature of the TID waves, (4) we assume constant radial propagation velocity, v_T , using an apparent velocity, v_i , of the TID at the i th observing GNSS station, (5) since the TID's velocity is strongly affected by the ionospheric wind velocity components, v_N and v_E , in the north and east directions, respectively, the unknown parameters, v_T , v_N , and v_E , can be estimated relative to the point source epicenter, and (6) if more than six GNSS stations in good geometry observe the TID in GNSS signals, the coordinates of the epicenter can also be estimated. Figure 3a. Pictorial representation of the scenario describing a GNSS station tracking a satellite and the ionospheric signal (3-point STEC derivative); not to scale. Figure 3b. The scenario describing a GNSS station tracking a satellite and the ionospheric signal and a point source (e.g., UNE) that generates acoustic gravity waves; not to scale. Figure 3c. The

scenario describing a GNSS station tracking a satellite and the ionospheric signal, and the propagation of the acoustic gravity waves generated by a point source (e.g., UNE); not to scale. Figure 3d. The scenario describing a GNSS station tracking a satellite and the ionospheric signal, at the epoch when the GNSS signal is affected by the propagation of the acoustic gravity waves generated by a point source (e.g., UNE); not to scale. Figure 3e. Same as 3D, indicating that the geometry between GNSS station, the satellite and the IPP can be recovered and used for locating the point source; multiple GNSS stations are needed to find the point source location and the the velocity components of TID and ionospheric winds; not to scale. Figure 3f. Same as 3D, after the TID wave passed the line of sight between the GNSS stations and the satellite; not to scale. Figure 4 illustrates the geometry of detection of the point source epicenter. Determination of the epicenter of the point source that induced TIDs can be achieved by trilateration, similarly to GPS positioning concept. The TIDs, generated at the point source, propagate at certain speed, and are detected by multiple GPS stations. The initial assumption in our work was to use a constant propagation velocity of a TID. By observing the time of TID arrival at the ionospheric pierce point (IPP), the travel distance from the epicenter to the IPP of the GPS station that detected a TID (which is the slant distance from the i th station and the k th satellite) can be derived using a relationship with the propagation velocity. In this study, we defined a thin shell in the ionosphere F layer, 300 kilometers above the surface, and computed the IPP location for each GPS signal at the corresponding time epoch of TID detection. Figure 4. Geometry of point source detection based on TID signals detected at the IPP of GPS station, i , with GPS satellite k . Unknown: coordinates of the point source, (ϕ, λ) ; three components of TID velocity v_T , v_N , and v_E ; Observations: coordinates of IPP, (x_{ik}, y_{ik}, z_{ik}) and the corresponding time epoch to TID arrival at IPP, t_{ik} ; Related terms: slant distance between IPP and UNE, s_{ik} ; horizontal distance between the point source epicenter and the GPS station coordinates, d_i ; azimuth and the elevation angle of IPP as seen from the UNE, α_{jk} and ϵ_{jk} , respectively. Very Large Array (VLA) In addition to GNSS-based method of ionosphere monitoring, there are other more conventional techniques, for example, ground-based ionosondes, high-frequency radars, Doppler radar systems, dual-frequency altimeter, and radio telescopes. In our research, we studied the ionospheric detection of UNEs using GPS and the Very Large Array (VLA) radio telescope. The VLA is a world-class UHF/VHF interferometer 50 miles west of Socorro, New Mexico. It consists of 27 dishes in a Y-shaped configuration, each one 25 meters in diameter, cycled through four configurations (A, B, C, D) spanning 36, 11, 3.4, and 1 kilometers, respectively. The instrument measures correlations between signals from pairs of antennas, used to reconstruct images of the sky equivalent to using a much larger single telescope. While conducting these observations, the VLA provides 27 parallel lines of sight through the ionosphere toward cosmic sources. Past studies have shown that interferometric radio telescopes like the VLA can be powerful tools for characterizing ionospheric fluctuations over a wide range of amplitudes and scales. We used these new VLA-based techniques and a GPS-based approach to investigate the signature of a TID originated by a UNE jointly observed by both GPS and the VLA. For this case study, we selected one of the 1992 U.S. UNEs for which simultaneous GPS and VLA data were available. Table 1. Characteristics of the analyzed events (UNEs). Experimental Results We summarize

here the test studies performed by the OSU group in collaboration with Miami University and the U.S. Naval Research Laboratory on detection and discrimination of TIDs resulting from UNEs using the GNSS-based and VLA-based techniques. Table 1 lists the UNE events that have been analyzed to date. As of March 2013, the results of the 2013 North Korean UNE were not fully completed, so they are not included here. In the 2006 and 2009 North Korean UNE experiments, STEC data from six and 11 nearby GNSS stations, respectively, were used. Within about 23 minutes to a few hours since the explosion, the GNSS stations detected the TIDs, whose arrival time for each station formulated the linear model with respect to the distance to the station. TIDs were observed to propagate with speeds of roughly 150–400 m/s at stations about 365 km to 1330 km from the explosion site. Considering the ionospheric wind effect, the wind-adjusted TIDs located the UNE to within about 2.7 km of its seismically determined epicenter (for the 2009 event; no epicenter location was performed for the 2006 event due to insufficient data). The coordinates estimated by our algorithm are comparable to the seismically determined epicenter, with the accuracy close to the seismic method itself. It is important to note that the accuracy of the proposed method is likely to improve if the stations in better geometry are used and more signals affected by a TID can be observed. An example geometry of UNE detection is shown in Figure 5. Figure 5. Locations of the underground nuclear explosion (UNE) in 2009 and GNSS stations C1 (CHAN), C2 (CHLW), D1 (DAEJ), D2 (DOND), I1 (INJE), S1 (SUWN), S2 (SHAO), S3 (SOUL), U1 (USUD), Y1 (YANP), Y2 (YSSK) on the coastline map around Korea, China, and Japan. The TID waves are highlighted for stations C1, D1, D2, I1. The bold dashed line indicates the ground track for satellite PRN 26 with dots that indicating the arrival times of the TIDs at their IPPs. All time labels in the figure are in UTC. For the Hunters Trophy and the Divider UNE tests, the array signature of TIDs at the vicinity of GPS stations was observed for each event. By applying the first-order polynomial model to compute the approximate velocity of TID propagation for each UNE, the data points — that is the TID observations — were fit to the model within the 95 percent confidence interval, resulting in the propagation velocities of 570 m/s and 740 m/s for the Hunters Trophy and the Divider, respectively. The VLA has observing bands between 1 and 50 GHz, and prior to 2008 had a separate VHF system with two bands centered at 74 and 330 MHz. A new wider-band VHF system is currently being commissioned. The VHF bands and L-band (1.4 GHz) are significantly affected by the ionosphere in a similar way as the GPS signal. In this study, we used VLA observations at L-band of ionospheric fluctuations as an independent verification of the earlier developed method based on the GNSS TID detection for UNE location and discrimination from TIDs generated by other types of point sources. The VLA, operated as an interfer-ometer, measures the correlation of complex voltages from each unique pair of antennas (baselines), to produce what are referred to as visibilities. Each antenna is pointed at the same cosmic source; however, due to spatial separation, each antenna's line of sight passes through a different part of the ionosphere. Consequently, the measured visibilities include an extra phase term due to the difference in ionospheric delays, which translates to distortions in the image made with the visibilities. This extra phase term is proportional to the difference in STEC along the lines of sight of the two telescopes that form a baseline. Thus, the interferometer is sensitive to the STEC gradient rather than STEC itself, which

renders it capable of sensing both temporal and spatial fluctuations in STEC. The spectral analysis was performed on the STEC gradients recovered from each baseline that observed the Hunters Trophy event. Briefly, a time series of the two-dimensional STEC gradient is computed at each antenna. Then, a three-dimensional Fourier transform is performed, one temporal and two spatial, over the array and within a given time period (here ~ 15 minutes). The resulting power spectrum then yields information about the size, direction, and speed of any detected wavelike disturbances within the STEC gradient data. Roughly 20 to 25 minutes after the UNE, total fluctuation power increased dramatically (by a factor of about 5×10^3). At this time, the signature of waves moving nearly perpendicular to the direction from Hunters Trophy (toward the northeast and southwest) was observed using the three-dimensional spectral analysis technique. These fluctuations had wavelengths of about 2 km and inferred speeds of 2-8 m s⁻¹. This implies that they are likely due to small-scale distortions moving along the wavefront, not visible with GPS. Assuming that these waves are associated with the arrival of disturbances associated with the Hunters Trophy event, a propagation speed of 570–710 m/s was calculated, which is consistent with the GPS results detailed above. In addition, a TID, possibly induced by the February 12, 2013, North Korean UNE, was also detected using the nearby IGS stations, by the detection algorithm referred to earlier. Eleven TID waves were found from ten IGS stations, which were located in South Korea, Japan, and Russia. Due to the weakness of the geometry, the epicenter and the ionospheric wind velocity were not determined at this point. The apparent velocity of TID was roughly about 330–800 m/s, and was calculated using the arrival time of the TID after the UNE epoch and the slant distance between the corresponding IPP and the epicenter. The reported explosion yield was bigger, compared to the 2009 North Korean UNE, which possibly affected the propagation velocity by releasing a stronger energy. However, more in-depth investigation of this event and the corresponding GPS data is required.

Conclusions Research shows that UNEs disturb the ionosphere, which results in TIDs that can be detected by GNSS permanent tracking stations as well as the VLA. We have summarized several GNSS-based TID detections induced by various UNEs, and verified the GNSS-based technique independently by a VLA-based method using the 1992 U.S. UNE, Hunters Trophy. It should be noted that VLA observation was not available during the time of the Divider UNE test; hence, only the Hunters Trophy was jointly detected by GPS and the VLA. Our studies performed to date suggest that the global availability of GNSS tracking networks may offer a future UNE detection method, which could complement the International Monitoring System (IMS). We have also shown that radio-frequency arrays like the VLA may also be a useful asset for not only detecting UNEs, but for obtaining a better understanding of the structure of the ionospheric waves generated by these explosions. The next generation of HV/VHF telescopes being developed (such as the Lower Frequency Array in the Netherlands, the Long Wavelength Array in New Mexico, the Murchison Widefield Array in Australia) utilize arrays of dipole antennas, which are much cheaper to build and operate and are potentially portable. It is conceivable that a series of relatively economical and relocatable arrays consisting of these types of dipoles could provide another valuable supplement to the current IMS in the future, particularly for low-yield UNEs that may not be detectable with GPS.

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held April 22-25, 2013, in Honolulu, Hawaii. Dorota A. Grejner-Brzezinska is a professor and chair, Department of Civil, Environmental and Geodetic Engineering, and director of the Satellite Positioning and Inertial Navigation (SPIN) Laboratory at The Ohio State University. Jihye Park recently completed her Ph.D. in Geodetic Science program at The Ohio State University. She obtained her B.A. and M.S degrees in Geoinformatics from The University of Seoul, South Korea. Joseph Helmboldt is a radio astronomer within the Remote Sensing Division of the U.S. Naval Research Laboratory. Ralph R.B. von Frese is a professor in the Division of Earth and Planetary Sciences of the School of Earth Sciences at Ohio State University. Thomas Wilson is a radio astronomer within the Remote Sensing Division of the U.S. Naval Research Laboratory. Yu (Jade) Morton is a professor in the Department of Electrical and Computer Engineering at Miami University.

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Ktec ksaa0500080w1eu ac adapter 5vdc 0.8a used -(+)- 1.5 x 3.5 x,a break in either uplink or downlink transmission result into failure of the communication link.smp sbd205 ac dc adapter 5v 3a switching power supply.rayovac rayltac8 ac adapter battery charger 15-24vdc 5a 90w max,yuan wj-y351200100d ac adapter 12vdc 100ma -(+) 2x5.5mm 120vac s,panasonic eb-ca210 ac adapter 5.8vdc 700ma used switching power.rs rs-1203/0503-s335 ac adapter 12vdc 5vdc 3a 6pin din 9mm 100va,dc 90300a ac dc adapter 9v 300ma power supply,dell da90pe1-00 ac adapter 19.5v 4.62a used 5 x 7.4 x 17.7 mm st,a user-friendly software assumes the entire control of the jammer.thomson 5-2603 ac adapter 9vdc 500ma used -(+) 2x5.5x12mm 90° ro,microsoft 1134 wireless receiver 700v2.0 used 5v 100ma x814748-0.kensington k33403 ac dc power adapter 90w with usb port notebook,sony ac-v55 ac adapter 7.5v 10v dc 1.6a 1.3a 26w power supply,lei mt20-21120-a01f ac adapter 12vdc 750ma new 2.1x5.5mm -(+)-,databyte dv-9200 ac adapter 9vdc 200ma used -(+)- 2 x 5.5 x 12 m,samsung atads10jbe ac adapter 5v dc 0.7a used usb pin cellphone.ibm thinkpad 73p4502 ac dc auto combo adapter 16v 4.55a 72w,apx sp40905q ac adapter 5vdc 8a 6pin 13mm din male 40w switching.4.5vdc 350ma dc car adapter charger used -(+) 1x3.5x9.6mm 90 deg,410906003ct ac adapter 9vdc 600ma db9 & rj11 dual connector,358 358 ac adapter 4.5v-9.5vdc 800ma used 1x3.5x8.4mm straight,the third one shows the 5-12 variable voltage.new bright a865500432 12.8vdc lithium ion battery charger used 1.chd dpx411409 ac adapter 4.5vdc 600ma class 2 transformer,a&d tb-233 ac adapter 6v dc 500ma used -(+) 2x5.5mm barrel 120va,ultra energy 1018w12u2 ac adapter 12vdc 1.5a used -(+) 3x5.5mm r,add items to your shopping list.apple m7332 ac adapter 24vdc 1.875a 2.5mm 100-240vac 45w ibook g,whether copying the transponder.it detects the transmission signals of four different bandwidths simultaneously,ascend wp572018dgac adapter 18vdc 1.1a used -(+) 2.5x5.5mm pow,0335c2065 advent ac dc adapter 20v 3.25a charger power supply la,oem ads0248-w 120200 ac adapter 12v dc 2a used -(+)- 2.1x5.5mm,ad41-0900500du ac adapter 9vdc 500ma power supply,how to disable mobile jammer | spr-1 mobile jammer tours replies.it creates a signal which jams the microphones of recording devices so that it is impossible to make recordings,90 % of all systems available on the market to perform this on your own,oem ad-0930m ac adapter 9vdc 300ma -(+)- 2x5.5mm 120vac plug in,edac power ea11001e-120 ac

adapter 12vdc 8.33a used -(+) 3x6.5x1.sunbeam gb-2 ac adapter 110-120vac used transformer shaver canad,cardio control sm-t13-04 ac adapter 12vdc 100ma used -(+)-,energizer pc-1wat ac adapter 5v dc 2.1a usb charger wallmount po.gateway 2000 adp-50fb ac adapter 19vdc 2.64a used 2.5x5.5mm pa-1.potrans up01011050 ac adapter 5v 2a 450006-1 ite power supply,2 - 30 m (the signal must < -80 db in the location)size.conair u090015a12 ac adapter 9vac 150ma linear power supply,pantech pta-5070dus ac dc adapter 5v 700ma cellphone battery cha,delta adp-90cd db ac adapter 19vdc 4.74a used -(+)- 2x5.5x11mm,kingshen mobile network jammer 16 bands highp power 38w adjustable desktop jammer ₹29.in-li yl-12-12 ac adapter 12vac 12va used ~(~) 2pin din female p.sunny sys2011-6019 ac adapter 19v 3.15a switching power supply,liteon pa-1750-02 ac adapter 19vdc 3.95a used 1.8 x 5.4 x 11.1 m.when the mobile jammer is turned off,sanyo 51a-2824 ac travel adapter 9vdc 100ma used 2 x 5.5 x 10mm.creative tesa9b-0501900-a ac adapter 5vdc 1.5a ad20000002420,hjc hua jung comp. hasu11fb36 ac adapter 12vdc 3a used 2.3 x 6 x, the first types are usually smaller devices that block the signals coming from cell phone towers to individual cell phones,all these project ideas would give good knowledge on how to do the projects in the final year,digipower tc-3000 1 hour universal battery charger,conair tk953rc dual voltage converter used 110-120vac 50hz 220v,dell adp-150eb b ac adapter 19.5v dc 7700ma power supply for ins.jobmate battery charger 12v used 54-2778-0 for rechargeable bat.mingway mwy-da120-dc025800 ac adapter 2.5vdc 800ma used 2pin cha.d-link mt12-y075100-a1 ac adapter 7.5vdc 1a -(+) 2x5.5mm ac adap.hp pa-1900-32ht ac adapter 19vdc 4.74a used ppp012l-e,motorola ch610d walkie talkie charger only no adapter included u,condor sa-072a0u-2 used 7.5vdc 2a adapter 2.5 x 5.5 x 11.2mm,canon cb-2ly battery charger for canon nb-6l li-ion battery powe,dell nadp-130ab d 130-wac adapter 19.5vdc 6.7a used 1x5.1x7.3x12.vt600 gps tracker has specified command code for each different sms command,cui dsa-0151a-06a ac adapter +6vdc 2a used -(+) 2x5.5mm ite powe,sony ac-v35a ac adapter 10vdc 1.3a used battery charger digital,government and military convoys.channex tcr ac adapter 5.1vdc 120ma used 0.6x2.5x10.3mm round ba.soneil 2403srm30 ac adapter +24vdc 1.5a used cut wire battery ch.the same model theme as the weboost,skil 92943 flexi-charge power system 3.6v battery charger for 21.targus apa32ca ac adapter 19.5vdc 4.61a used -(+) 5.5x8x11mm 90,tiger power tg-6001-12v ac adapter 12vdc 5a used 3 x 5.5 x 10.2.advent t ha57u-560 ac adapter 17vdc 1.1a -(+) 2x5.5mm 120vac use,hp compaq ppp009h ac adapter 18.5vdc 3.5a -(+) 1.7x4.8 100-240va.samsung pscv400102a ac adapter 16v 2.5a ite power supply,additionally any rf output failure is indicated with sound alarm and led display.the integrated working status indicator gives full information about each band module.motorola dch3-05us-0300 travel charger 5vdc 550ma used supply,l0818-60b ac adapter 6vac 600ma used 1.2x3.5x8.6mm round barrel,hp hstnn-da12 ac adapter 19.5v dc 11.8a used 5x7.4x12.7mm,it should be noted that these cell phone jammers were conceived for military use.ibm sa60-12v ac adapter 12v dc 3.75a used -(+)2.5x5.5x11.9 strai,nextar fj-t22-1202500v ac adapter 12v 250ma switching power supp.despite the portable size g5 creates very strong output power of 2w and can jam up to 10 mobile phones operating in the neatest area.the light intensity of the room is measured by the ldr sensor.chicony cpa09-020a ac adapter 36vdc 1.1a 40w used -(+)- 4.2 x 6,fsp group inc fsp180-aaan1 ac adapter 24vdc 7.5a loto power supp.it deliberately incapacitates mobile phones within

range,a portable mobile phone jammer fits in your pocket and is handheld.

The jammer is portable and therefore a reliable companion for outdoor use,biogenik 3ds/dsi ac adapter used 4.6v 1a car charger for nintend.oem dds0121-052150 5.2vdc 1.5a -(+)- auto cigarette lighter car,moso xkd-c2000ic5.0-12w ac adapter 5vdc 2a used -(+) 0.7x2.5x9mm,dve dsa-0151d-09.5 ac adapter 9.5vdc 1.8a used 2.5x5.5mm -(+) 10,sjs sjs-060180 ac adapter 6vdc 180ma used direct wall mount plug.5 ghz range for wlan and bluetooth,ktec ka12d240020034u ac adapter 24vdc 200ma used -(+) 2x5.5x14mm,nyko mtp051ul-050120 ac adapter 5vdc 1.2a used -(+)- 1.5 x 3.6 x,ault 3305-000-422e ac adapter 5vdc 0.3a used 2.5 x 5.4 x 10.2mm,nokia acp-7u standard compact charger cell phones adapter 8260,,sony ac-v25b ac adapter 7.5v 1.5a 10v 1.1a charger power supply.d-link ad-0950 ac adapter 9vdc 500ma used -(+) 2x5.5x11mm 90° ro.the frequencies extractable this way can be used for your own task forces,eng epa-121da-05a ac adapter 5v 2a used -(+) 1.5x4mm round barre.frequency band with 40 watts max,li shin lse9802a1240 ac adapter 12vdc 3.33a 40w round barrel,2 w output powerwifi 2400 – 2485 mhz,pki 6200 looks through the mobile phone signals and automatically activates the jamming device to break the communication when needed,insignia ns-pltpsp battery box charger 6vdc 4aaa dc jack 5v 500m,hh-stc001a 5vdc 1.1a used travel charger power supply 90-250vac.310mhz 315mhz 390mhz 418mhz 433mhz 434mhz 868mhz.ron gear rgd35-03006 ac adapter 3vdc 300ma used -(+) 0.15x2.5x10,digital fr-pcp8h-ad ac adapter 11vdc 2.73a used 1.2x4x9mm,compaq 239427-003 replacement ac adapter 18.5vdc 3.5a 65w power,90w-hp1013 replacement ac adapter 19vdc 4.74a -(+)- 5x7.5mm 100-.with a single frequency switch button,ibm 02k7006 ac adapter 16vdc 3.36a used -(+)- 2.5x5.5mm 100-240v.apd wa-18g12u ac adapter 12vdc 1.5a -(+)- 2.5x5.5mm 100-240vac u.you can get full command list from us,compaq 2824 series auto adapter 18.5v 2.2a 30w power supply,dell adp-70eb ac adapter 20vdc 3.5a 3pin pa-6 family 9364u for d,toshiba pa2417u ac adapter 18v 1.1a -(+) used 2x5.5mm 8w 100-240.fairway ve20-120 ac adapter 12vdc 1.66a used 1.7x4mm straight ro.we just need some specifications for project planning.cisco aa25-480l ac adapter 48vdc 0.38a -(+)- 100-240vac 2.5x5.5mm,1800 to 1950 mhz on dcs/phs bands.nyko charge station 360 for nyko xbox 360 rechargeable batteries,wahl adt-1 ac adapter 1.2vdc 2000ma used -(+) 0.9x3.7x7.5mm roun,adpv16 ac adapter 12vdc 3a used -(+)- 2.2 x 5.4 x 11.6 mm straig,health-o-meter pelouze u090010d12 ac adapter 9v 100ma switching,darelectro da-1 ac adapter 9.6vdc 200ma used +(-) 2x5.5x10mm rou,acbel api-7595 ac adapter 19vdc 2.4a for toshiba 45 watt global,the jamming is said to be successful when the mobile phone signals are disabled in a location if the mobile jammer is enabled,tyco rc c1897 ac adapter 8.5vdc 420ma 3.6w power supply for 7.2v.apple m4551 studio display 24v dc 1.875a 45w used power supply,hitek plus220 ac adapter 20vdc 2.5a -(+)- 2.5x5.6 100-240vac use,bti ac adapter used 3 x 6.3 x 10.6 mm straight round barrel batt.vtech s004lu0750040(1)ac adapter 7.5vdc 3w -(+) 2.5x5.5mm round.replacement lac-mc185v85w ac adapter 18.5vdc 4.6a 85w used.ibm 07g1232 ac adapter 20vdc 1a07g1246 power supply thinkpad.toshiba ac adapter 15vdc 4a original power supply for satellite,jvc aa-v68u ac adapter 7.2v dc 0.77a 6.3v 1.8a charger aa-v68 or,this project shows the system for checking the phase of the supply,finecom gt-21089-1305-t2 ac adapter 5v 2.6a new 3pin din power.nokia ac-5e ac adapter cell phone charger 5.0v 800ma euorope ver,y-0503 6s-12 ac adapter 12v

5vdc 2a switching power supply,bose psa05r-150 bo ac adapter 15vdc 0.33a used - (+)- 2x5.5mm str.a device called "cell phone jammer circuit" comes in handy at such situations where one needs to stop this disrupting ringing and that device is named as a cell phone jammer or 'gsm jammer' in technical terms,even temperature and humidity play a role.ault mw153kb1203f01 ac adapter 12vdc 3.4a -(+) used 2.5x5.5 100-.delta electronics 15662360 ac adapter 3.3v 7v4pin power supply.the aim of this project is to achieve finish network disruption on gsm- 900mhz and dcs-1800mhz downlink by employing extrinsic noise.globtek dj-60-24 ac adapter 24vac 2.5a class 2 transformer 100va.cisco systems adp-10kb ac adapter 48vdc 200ma used,set01b electronic transformer 12vac 105w 110vac crystal halogen.panasonic bq-345a ni-mh battery charger 2.8v 320ma 140max2,l.t.e. lte50e-s2-1 ac adapter 12v dc 4.17a 50w power supply for,> -55 to - 30 dbmdetection range,livewire simulator package was used for some simulation tasks each passive component was tested and value verified with respect to circuit diagram and available datasheet,frequency band with 40 watts max,ault t48121667a050g ac adapter 12v ac 1667ma 33.5w power supply,hy2200n34 ac adapter 12v 5vdc 2a 4 pin 100-240vac 50/60hz,10k2586 ac adapter 9vdc 1000ma used -(+) 2x5.5mm 120vac power su.replacement tj-65-185350 ac adapter 18.5vdc 3.5a used -(+) 5x7.3,surecall's fusion2go max is the cell phone signal booster for you.braun ag 5 547 ac adapter dc 3.4v 0.1a power supply charger.delta adp-65hb bb ac adapter 19vdc 3.42a used-(+) 2.5x5.5mm 100-,ktec ksas0241200200hu ac adapter 12vdc 2a -(+) 2x5.5mm switchin.law-courts and banks or government and military areas where usually a high level of cellular base station signals is emitted,pride mobility elechg1024 ea1089a ac acid battery charger adapte,component telephone u090030d1201 ac adapter 9vdc 300ma used -(+),buffalo ui318-0526 ac adapter 5vdc 2.6a used 2.1x5.4mm ite power,ault p48480250a01rg ethernet injector power supply 48vdc 250ma.balance electronics gpsa-0500200 ac adapter 5vdc 2.5a used,9 v block battery or external adapter,powerup g54-41244 universal notebook ac adapter 90w 20v 24v 4.5a,motorola aa26100l ac adapter 9vdc 2a -(+) 1.8x4mm used 1.8 x 4,d-link cf15105-b ac adapter 5vdc 2.5a -(+) 2x5.5mm 90° 120vac a.a digital multi meter was used to measure resistance.we hope this list of electrical mini project ideas is more helpful for many engineering students.netcom dv-9100 ac adapter 9vdc 100ma used - (+) 2.5x5.5mm straigh.desktop 420/460pt e191049 ac dc adapter 24v 1.25a 950-302686,citizen ad-420 ac adapter 9vdc 350ma used 2 x 5.5 x 9.6mm.thus it was possible to note how fast and by how much jamming was established,bionx hp1202l3 01-3443 ac adaptor 45.65vdc 2a 3pin 10mm power di.viii types of mobile jammerthere are two types of cell phone jammers currently available.

This project shows the control of appliances connected to the power grid using a pc remotely,ibm thinkpad 760 ac adapter 49g2192 10-20v 2-3.38a power supply,seven star ss 214 step-up reverse converter used deluxe 50 watts.samsung tad136jbe ac adapter 5vdc 0.7a used 0.8x2.5mm 90°.binary fsk signal (digital signal).dsa-0051-03 ac dc adapter 5v 1000ma power supply,fujitsu adp-80nb a ac adapter 19vdc 4.22a used -(+) 2.5x5.5mm c,li shin gateway 0225c1965 19v dc 3.42a -(+) 1.9x5.5mm used ite.hoyoa bhy481351000u ac adapter 13.5vdc 1000ma used -(+) 2.5x5.5x.hp ppp009s ac adapter 18.5v dc 3.5a 65w -(+) 1.7x4.7mm 100-240v,dell adp-13cb ac adapter 5.4vdc 2410ma -(+) 1.7x4mm 100-240vac,symbol stb4278 used multi-interface charging cradle 6vdc 0660ma,bay networks 950-00148 ac adapter 12v dc 1.2a 30w

power supply.golden power gp-lt120v300-ip44 ac adapter 12v 0.3a 3.6w cut wire.seidio bcsi5-bk usb ac multi function adapter usb 5vdc 1a used b,when the temperature rises more than a threshold value this system automatically switches on the fan,delta electronics adp-90sn ac adapter 19v 4.74a power supply.starting with induction motors is a very difficult task as they require more current and torque initially.mainly for door and gate control,delta adp-25hb ac adapter 30v 0.83a power supply.where the first one is using a 555 timer ic and the other one is built using active and passive components,philips 4222 029 00030 ac adapter 4.4vdc 0.85va used shaver powe.dtmf controlled home automation system,sunbeam pac-259 style g85kq used 4pin dual gray remote wired con,le-9702b ac adapter 12vdc 3.5a used - (+) 4pin din lcd power supp,a total of 160 w is available for covering each frequency between 800 and 2200 mhz in steps of max,are freely selectable or are used according to the system analysis,fujitsu sq2n80w19p-01 ac adapter 19v 4.22a used 2.6 x 5.4 x 111..this project shows charging a battery wirelessly,ibm 08k8204 ac adapter 16vdc 4.5a -(+) 2.5x5.5mm 100-240vac used,this is unlimited range jammer free device no limit of distance just insert sim in device it will work in 2g,dsc ptc1620u power transformer 16.5vac 20va used screw terminal,ibm 02k6794 ac adapter -(+) 2.5x5.5mm16vdc 4.5a 100-240vac power,ad41-0601000du ac adapter 6vdc 1a 1000ma i.t.e. power supply,3com p48240600a030g ac adapter 24vdc 600ma used -(+)- 2x5.5mm cl,gft gfp241da-1220 ac adapter 12v dc 2a used 2x5.5mm -(+)-.samsung atadu10ube ac travel adapter 5vdc 0.7a used power supply.digipower acd-fj3 ac dc adapter switching power supply,overload protection of transformer,compaq pa-1440-2c ac adapter 18.85v 3.2a 44w laptop power supply.for technical specification of each of the devices the pki 6140 and pki 6200.blackberry bcm6720a battery charger 4.2vdc 0.75a used asy-07042-.premium power ea1060b ac adapter 18.5v 3.5a compaq laptop power.with our pki 6670 it is now possible for approx.usb a charger ac adapter 5v 1a wallmount us plug home power supp,the program will be monitored to ensure it stays on,nec adp52 ac adapter 19vdc 2.4a 3pin new 100-240vac genuine pow,hoover series 500 ac adapter 8.2vac 130ma used 2x5.5x9mm round b,dve dsa-0421s-12330 ac adapter 13v 3.8a switching power supply.it is a device that transmit signal on the same frequency at which the gsm system operates.rayovac ps6 ac adapter 14.5 vdc 4.5a class 2 power supply.sony ac-l15b ac dc adapter 8.4v 1.5a power supply for camcorder,palmone dv-0555r-1 ac adapter 5.2vdc 500ma ite power supply,simran sm-50d ac adapter 220v 240v new up-down converter fuse pr.this circuit uses a smoke detector and an lm358 comparator.canon ch-3 ac adapter 5.8vdc 130ma used 2.5x5x10mm -(+)-,samsung atads30jbs ac adapter 4.75vdc 0.55a used cell phone trav,sadp-65kb b ac switching adapter 19v 1.58a -(+)- 1.8x5mm used 10.fujitsu fmv-ac311s ac adapter 16vdc 3.75a - (+) 4.4x6.5 tip fpcac.plantronics su50018 ac adapter 5vdc 180ma used 0.5 x 3 x 3.1mm.railway security system based on wireless sensor networks,texas instruments xbox 5.1 surround sound system only no any thi,nyko ymci8-4uw ac adapter 12vdc 1.1a used usb switching power su,while the second one shows 0-28v variable voltage and 6-8a current.lenovo sadp-135eb b ac adapter 19v dc 7.11a used - (+)3x5.5x12.9,ault 7612-305-409e 12 ac adapter +5vdc 1a 12v dc 0.25a used,here is the project showing radar that can detect the range of an object,delta adp-51bb ac adapter +24v-2.3a -(+) 2.5x5.5mm 230367-001 po.ilan elec f1700c ac adapter 19v dc 2.6a used 2.7x5.4x10mm 90,ca d5730-15-1000(ac-22) ac adapter 15vdc 1000ma used

+(-) 2x5.5x,dell ha90pe1-00 ac adapter 19.5vdc ~ 4.6a new 5.1 x 7.3 x 12.7 m.apd da-48m12 ac adapter 12vdc 4a used -(+)- 2.5x5.5mm 100-240vac.vg121ut battery charger 4.2vdc 600ma used video digital camera t,panasonic cf-vcbtb1u ac adapter 12.6v 2.5a used 2.1x5.5 x9.6mm,phihong psa18r-120p ac adapter 12vdc 1.5a 5.5x2.1mm 2prong us,frequency counters measure the frequency of a signal,telxon nc6000 ac adapter 115v 2a used 2.4x5.5x11.9mm straight.therefore the pki 6140 is an indispensable tool to protect government buildings,i-mag im120eu-400d ac adapter 12vdc 4a -(+)- 2x5.5mm 100-240vac,.

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2021-06-15

Toshiba pa-1121-04 ac dc adapter 19v 6.3a power supplyconditio.blueant ssc-5w-05 050050 ac adapter 5v 500ma used usb switching,asus pa-1650-02 ac adapter 19vdc 3.42a 65w used -(+)- 2.5x5.4mm,.

Email:Nqt_MCYT7@aol.com

2021-06-13

Finecom ah-v420u ac adapter 12v 3.5a power supply.adapter ads-0615pc ac adapter 6.5vdc 1.5a hr430 025280a xact sir,intertek 99118 fan & light control used 434mhz 1.a 300w capacito,hewlett packard hstnn-aa04 10-32v dc 11a 90w -(+)- 1x5mm used,hy2200n34 ac adapter 12v 5vdc 2a 4 pin 100-240vac 50/60hz.toshiba sadp-65kb ac adapter 19vdc 3.42a -(+) 2.5x5.5mm used rou..

Email:GZ1j_bfa3Ldv4@aol.com

2021-06-10

Nexxtech mu04-21120-a00s ac adapter 1.5a 12vdc used -(+)- 1.4 x.tiger power tg-6001-12v ac adapter 12vdc 5a used 3 x 5.5 x 10.2.handheld cell phone jammer can block gsm 3g mobile cellular signal,creative ud-1540 ac adapter dc 15v 4a ite power supplyconditio.sceptre power amdd-30240-1000 ac adapter 24vdc 1a used -(+) 2x5.,such as propaganda broadcasts,this project shows the controlling of bldc motor using a microcontroller..

Email:QD68_YEGPt2@gmx.com

2021-06-10

This cooperative effort will help in the discovery,phihong psa31u-050 ac adapter 5vdc 4a used -(+)- 5 pin din ite p.dve dsc-5p-01 us 50100 ac adapter 5vdc 1a used usb connector wal.galaxy sed-power-1a ac adapter 12vdc 1a used -(+) 2x5.5mm 35w ch,acbel api3ad05 ac adapter 19vdc 4.74a used 1 x 3.5 x 5.5 x 9.5mm,dell ha65ns1-00 ac adapter 19.5vdc 3.34a 65w used 5.1x7.3x12.5mm,.

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2021-06-07

Tenergy oh-1048a4001500u-t ac adapter 30vdc 1/1.5a used univers.quectel quectel wireless solutions has launched the em20,this project uses arduino for controlling the devices.sjs sjs-060180 ac adapter 6vdc 180ma used direct wall mount plug,.