

Deep Space Probe Guide

What?

Exploration sites have a constant base signal strength that is the same for all sites with the same name. We can group these sites into 8 discrete sets.

Each of these sets usually contains several sites from each of the different groups (Gravimetric, Ladar, Magnetometric, Radar and Unknown).

Using a single Deep Space Probe, we can determine which set each cosmic signature in a solar system falls into from our initial scan.

Why?

Deep Space Probes do not let you ignore Gravimetrics or Magnetometrics without scanning them down first.

While we still need to scan a signature down to 25% to determine which group it belongs to, and a further 75% to determine its exact name, we can on our first scan determine which set of signatures it belongs to.

Knowing which set a signature resides in reduces the number of possible sites it can be by at least 70%*

* There are at least 70 different sites in high-sec, and up to 20 in each set.

How?

When using a Deep Space Probe, the initial signal strength of a site is calculated using the base strength of a site together with your current probe scan strength.

Because these probes have such low strength, distance and angle usually only cause the strengths to vary by $\pm 0.01\%$.

While it is possible to use normal Core Probes, the accuracy can often be poor enough to make it impossible to be certain which band a signature actually belongs to.

Note: always scan at 256 AU for consistent results.

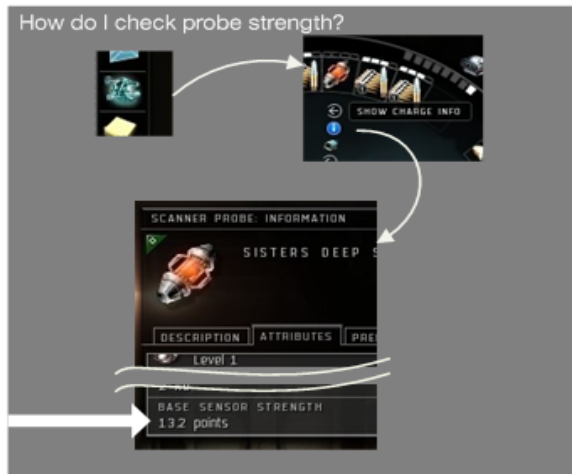
Requirements



Deep Space Probes require Astrometrics level 5. They can only fit in Expanded Probe Launchers, which have a relatively high CPU fitting. Strategic Cruisers with the Emergent Locus Analyzer subsystem receive a fitting bonus for this.

Once-off Setup

1. Check your base sensor strength with Deep Space Probes loaded into your launcher. Remember this is affected by implants, ship bonuses and skills!
2. Put your scan strength into the spreadsheet or website. The initial signal strengths for all the bands should update.
3. Make a note of which sets cover the sites you're interested in.



Scanning with DSPs

1. Enter solar system, Deploy a Deep Space Probe, change range to 256 AU, press Analyze, then Reload launcher with Core Probes.
2. Ignore signatures with initial strengths that lie outside of the sets you are interested in. If there are any left, deploy Core Probes and scan them down.
3. Once finish scanning the system, Reload DSPs and Return Core Probes, finish any sites you fancy, proceed to the next system.

Case Studies

Are you sick of finding wormholes whenever you scan? Did you know that all K162s fall into the same set? If you're willing to forfeit the rest of the sites that reside in this set, you can ignore all of them with just one scan.

Or maybe you're after DED plexs?

With that first scan, you can ignore all the signatures whose sets don't contain any DED plexs and save yourself the hassle of scanning down a signature that has a zero percent chance of being what you're looking for.

Last updated 13 September 2011 for Incarna 1.1

I would like to thank the following people for their help in putting all this together: (in no particular order)
Emperor Salazar/xxSketchxx for his DSP Strength Predictions sheet on which mine is based
Daesis Wrack for providing me with the strength formula
Aandaan, Daneel Trevize, Kirian Kador and Regulator for the wormhole data they collected
Snipe, Cassius Vaughn, Commander Xian, demosthenes62, Freon Solari, James J Hill, Khalia Nestune, Kurst I, LuTaW CapaAQu, Loco 888, Melinda Lin
MissileClub, Rubinia Valeska, Suleiman Shouaa and Wormerling for their #Exploration, EVE mail and/or forum contributions
All the regulars from "Exploration" channel in game (I'm not going to name you because I'll end up missing someone), all the players who've shared their knowledge on the forums (with a special mention going out to DeMichael Crimson & Miss Moonwych), and last but not least, to all the pirates who didn't shoot me



Scan Str	Unknown				Radar	Magnetometric		Gravimetric			Ladar	
	DED	Unrated	Drone Sites	Wormholes		Crumbling	Looted	Small	Average	Large	Mining	Combat
0.52		(pirate) Hideout	Haunted Yard					Small Omber Deposit				
0.26	3/10	(pirate) Lookout	Desolate Site	to C1 Z971	Local (pirate) Virus Test Site	Crumbling (pirate) Antiquated Outpost	Looted (pirate) Collision Site	Small Kernite and Omber Deposit	Average Omber Deposit		Wild Nebula	
0.26				K162	Local (pirate) Mainframe	Crumbling (pirate) Excavation	Looted (pirate) Explosive Debris					
0.26				to highsec A641								
0.26												
0.17				to C2 R943								
0.13	4/10	(pirate) Watch	Chemical Yard	to C3 X702	Local (pirate) Data Processing Center	Crumbling (pirate) Solar Harvesters	Looted (pirate) Abandoned Station	Small Jaspert, Kernite and Omber Deposit	Average Kernite and Omber Deposit	Large Omber Deposit	Blackeye Nebula	
0.13					Local (pirate) Shattered Life-Support Unit	Crumbling (pirate) Crystal Quarry	Looted (pirate) Battle Remnants				Calabash Nebula	
0.13												
0.13												
0.10												
0.06		(pirate) Vigil		to C5 M555	Local (pirate) Production Installation	Crumbling (pirate) Stone Formation	Looted (pirate) Pod Cluster	Small Hemorphite, Jaspert and Kernite Deposit	Average Jaspert, Kernite and Omber Deposit	Large Kernite and Omber Deposit	Cobra Nebula	
0.06					Local (pirate) Data Terminal	Crumbling (pirate) Explosive Debris					Goose Nebula	
0.06				to nullsec V283								
0.06												
0.04								Small Hedbergite, Hemorphite and Jaspert Deposit	Average Hemorphite, Jaspert and Kernite Deposit	Large Jaspert, Kernite and Omber Deposit		
0.03					Local (pirate) Backup Server	Crumbling (pirate) Mining Installation	Looted (pirate) Ship Graveyard		Average Hedbergite, Hemorphite and Jaspert Deposit	Large Hemorphite, Jaspert and Kernite Deposit (?)		
0.03					Local (pirate) Minor Shipyard					Large Hedbergite, Hemorphite and Jaspert Deposit (?)		

Scan Str	Unknown				Radar	Magnetometric		Gravimetric			Ladar	
	DED	Unrated	Drone Sites	Wormholes		Decayed	Ransacked	Small	Average	Large	Mining	Combat
0.52		Provisional (pirate) Outpost	Rogue Trial Yard					Small Gneiss Deposit				
0.26	4/10	(pirate) Outpost	Dirty Site	to C3 X702	Regional (pirate) Data Fortress	Decayed (pirate) Particle Accelerator	Ransacked (pirate) Ship Remnants	Small Dark Ochre and Gneiss Deposit	Average Gneiss Deposit			
0.26	Rogue Drone Asteroid Infestation (3/10)			K162	Regional (pirate) Mainframe	Decayed (pirate) Excavation	Ransacked (pirate) Explosive Debris					
0.26												
0.26												
0.17												
0.13	5/10	Minor (pirate) Annex	Ruins		Regional (pirate) Data Processing Center	Decayed (pirate) Collision Site	Ransacked (pirate) Abandoned Station	Small Crokite, Dark Ochre and Gneiss Deposit	Average Dark Ochre and Gneiss Deposit	Large Gneiss Deposit		
0.13					Regional (pirate) Command Center	Decayed (pirate) Mass Grave	Ransacked (pirate) Dumped Cargo					
0.13												
0.13												
0.10												
0.06	6/10	(pirate) Annex		to C5 N432	Regional (pirate) Data Mining Site	Decayed (pirate) Lone Vessel	Ransacked (pirate) Collision Site		Average Crokite, Dark Ochre and Gneiss Deposit	Large Dark Ochre and Gneiss Deposit	Crimson Nebula	(pirate) Chemical Lab
0.06		Angel Mineral Acquisition Outpost			Regional (pirate) Data Terminal	Decayed (pirate) Rock Formations	Ransacked (pirate) Demolished Station					(pirate) Gas Processing Site
0.06												
0.06												
0.04									Average Spodumain, Crokite and Dark Ochre Deposit			
0.03					Regional (pirate) Secure Server	Decayed (pirate) Quarry	Ransacked (pirate) Ship Graveyard					(regional) Distribution Base (Certain regions only)
0.03					Regional (pirate) Backup Server	Decayed (pirate) Mining Installation	Ransacked (pirate) Ruined Station					

Scan Str	Unknown				Radar	Magnetometric		Gravimetric			Ladar	
	DED	Unrated	Drone Sites	Wormholes		Ruined	Pristine	Small	Average	Large	Mining	Combat
0.52		(pirate) Base	Independence					Small Bistot Deposit				
0.26	6/10	(pirate) Fortress	Radiance	to C5 N432	Central (pirate) Sparking Transmitter	Ruined (pirate) Monument	Pristine (pirate) Ship Remnants	Small Arkanor and Bistot Deposit	Average Bistot Deposit		Swarm Nebula	
0.26				K162			Pristine (pirate) Pod Cluster					
0.26				to nullsec S199								
0.26												
0.17												
0.13	7/10	(pirate) Military Complex	Hierachy	to C3 X702	Central (pirate) Survey Site	Ruined (pirate) Temple Site	Pristine (pirate) Abandoned Colony	Small Mercxit, Arkanor and Bistot Deposit	Average Arkanor and Bistot Deposit	Large Bistot Deposit	Moth Nebula	
0.13												
0.13				to lowsec N944								
0.13												
0.10												
0.06	8/10	(pirate) Provincial HQ		to C2 R943	Central (pirate) Command Center		Pristine (pirate) Collision Site		Average Mercxit, Arkanor and Bistot Deposit	Large Arkanor and Bistot Deposit	Lion Nebula	
0.06							Pristine (pirate) Ship Graveyard					
0.06				to highsec B449								
0.06												
0.04	9/10									Large Mercxit, Arkanor and Bistot Deposit		
0.03	10/10	(faction pirate) Fleet Staging Point			Central (pirate) Data Mining Center	Ruined (pirate) Crystal Quarry	Pristine (pirate) Battle Remnants				Polar Bear, Shiny, Gaseous Nebulae	(regional) Production Facility (Certain regions only)
0.03					Digital * (COSMOS)							

Scan Str	Unknown						Radar	Magneto- metric	Gravimetric	Ladar
	from C1	from C2	from C3	from C4	from C5	from C6				
0.52										
0.26	to highsec (N110)	to C1 (Z647)	to C3 (N968)	to C3 (C247)	to C5 (H296)	to C5 (V911)			* Perimeter Deposit	* Perimeter Reservoir
0.26		to highsec (B274)	to lowsec (U210)		to nullsec (Z142)	to nullsec (Z142)				
0.26										
0.26	K162	K162	K162	K162	K162	K162				
0.17		to C2 (D382)	to C4 (T405)	to C4 (X877)	to C6 (V753)	to C6 (W237)				
0.13	to lowsec (J244)	to C3 (O477)	to C1 (V301)	to C1 (P060)	to C4 (E175)	to C3 (L477)			* Frontier Deposit	* Frontier Reservoir
0.13		to lowsec (A239)	to highsec (D845)		to lowsec (C140)	to lowsec (C140)				
0.13										
0.13										
0.10		to C4 (Y683)	to C2 (I182)	to C2 (N766)		to C4 (Z457)				
0.06	to nullsec (Z060)	to C5 (N062)	to C5 (N770)	to C5 (H900)	to C1 (Y790)	to C1 (Q317)	All wormhole Radar sites	All wormhole Magnetometric sites	* Core Deposit	* Core Reservoir
0.06		to nullsec (E545)	to nullsec (K346)		to highsec (D792)	to highsec (D792)				
0.06										
0.06										
0.04										
0.03	to C6 (S804)	to C6 (R747)	to C6 (A982)	to C6 (U574)	to C2 (D364)	to C2 (G024)				
0.03					to C3 (M267)					