HOW TO FILL OUT AN ORBITAL DATA REQUEST (ODR)

NOTE:

Show date of preparation in the "DDMMMYY" format. Name and full address of the requesting agency A-5 Management / Technician Level POC's. Please provide full contact information. All requests associated with, or in direct support of, a joint NASA mission are coordinated through NASA Goddard Space Flight Center's USSTRATCOM Laison (email: odr-liaison@lists.nasa.gov; phone: (301) 286-9945). If direct support is needed from Goddard OSAs, check the box. Give a brief description of the project, to include why the data is needed and the intended end result of the use of the data. For redistribution requests, please include why the data is needed and the intended end result of the use of the data. For redistribution requests, please include why the data will be redistributed to, the purpose of redistribution, and examples of redistributed products (provide website, if applicable). Attach an appendix, if necessary. Identify the exact data needed and the time span required. Requests that are general in nature cannot be filled until the exact needs are known. Define any special requirements peculiar to the request or the use of the data, such as time period and frequency of delivery. Specify Space-Track.org account, email address, mailing address, or other information that indicates the best method of delivery for the data requested at the appropriate security level. Enter the date you would like to start receiving the data you are requesting. Please allow 30 days from the date of request. Redistribution policy. Requestors need to check the box acknowledging the redistribution policy for the data requested. Redistribution policy. Requestors need to check the box acknowledging the redistribution policy for the data requested. Redistribution policy. Requestors need to check the box acknowledging the redistribution policy for the data requested. Redistribution policy. Requestors need to check the box acknowledging the redistribution policy for the data requested. The DoD or Federal government-contracting office	NOTE.	track.org. If access for multiple users is required, please submit one ODR with all of their Space-Track.org usernames.
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	16-17	classified, the company's need-to-know is stated in writing. The contracting officer is the point of contact for questions on
20-24 For JFSCC internal use only.	18-19	Type the name and grade of the approving contracting officer. Enter ///SIGNED/// for electronic submissions.
	20-24	For JFSCC internal use only.

When submitting a request for specialized website access, all individuals must have a valid user account on www.space-

NOTE:

All users are required to revalidate their need for orbital data on a yearly basis.

SUBMISSION

All requests should be submitted to **jspoc.ssasharing@us.af.mil**. Questions concerning ODR approval should be directed to **jspoc.ssasharing@us.af.mil** or +1-805-606-2675.

Classified requests may be sent to odr@afspc.af.smil.mil.

ORBITAL DATA REQUEST			1. DATE OF I	PREPARA	ATION: 9/28/18		
2. To: JFSCC, Vandenberg AFB, California	3. FROM: (Requesting agency – Name, address, and ZIP) Akhil Rao Department of Economics, University of Colorado Boulder, 256 UCB						
			Boulder, CO	D 80309-0	256		
Submission of this request constitutes an agreeme individuals, firms, corporations, and other persons or receipt of space situat	acting for the	United	States, liable f	for any cal	use of action arising from the provision		
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NAMES OF CONTACTS	ADDRES		TELEPHON	IE/FAX	E-MAIL		
4. MANAGEMENT LEVEL	same as abo	ve	Office:		akhil.rao@colorado.edu		
Akhil Rao			Mobile: (951 7261	732-			
5. TECH/OP LEVEL Akhil Rao	same as abo		Office: Mobile:				
6. PROJECT TO BE SUPPORTED		7. N/	ASA Coordina	-	SA missions only)		
Dissertation titled "The Economics of Orbit Use: The and Measurement"		Date:		Godda	ard OSA support required?		
8. NARRATIVE REQUEST AND/OR PROJECT DI (Describe the project/program the data will support	, why the data	is nee	ded, and the in	tended en	nd-result.)		
My dissertation approaches problems of orbital debris at theoretical framework to show that the equilibrium colli institutions around orbit use. Studies of the future debris the economic framework endogenizes the launch rate, mand interest rates. In the second chapter, I map space traincentives of active debris removal. These models allow financing. The third chapter takes these theories to data based instrument to control orbital collision risk, and est space traffic control. The Space-Track.org data will help me conduct the anal stocks (satellites and debris) in LEO (for my study, sem have some first-pass time series constructed from other estimate other economic parameters for future studies, savailabilities, the value of (currently-hypothetical) gene. One way to think of this framework is by analogy with feeding patterns are often augmented for policy use with used to augment existing models of the debris environmy work are available at my website, https://akhilrao.gi 9. SPECIFIC DATA REQUIRED (Standard formats should be specified whenever p	sion risk will be a environment ty haking it a varial ffic control polity me to develop to measure the timate the improvement of the timate the improvement of the timate the improvement with each as the value ralized orbital phioeconomic means the conomic means the timate the improvement with economic modernt with economic moder	d collisic driven pically ble white cies into economic degree covernen chapte (000km) active e of the path projects of dels of flels of f	on risk from an oby the profitabit treat the launch ch responds to use equivalent manic principles of of inefficiency in the interpretation of the profit in social value. The specifically, I as well as historisatellite series is option to deorbit perty rights. This hing behavior.	economic p lity of satel rate as a panderlying e- ket-based is space traffin current or from orbit will use it ries of each very rough t a satellite fidelity biol Similarly,	perspective. In the first chapter, I develop a llite ownership and property rights arameter to conduct sensitivity analyses on; economic parameters such as launch costs instruments, and consider the economic ic control, including active debris removal bit use, approximate an optimal market-use which could be achieved by optimal to construct time series of aggregate orbital a object that was once an active satellite. In the detailed histories will also help me to the shadow costs of limited launch logical models of fish migration and the framework I am developing could be		
Ideal data: Orbital parameters, NORAD ID, and any available details of operator/launcher for all* active payloads launched, with details of when/if they were deorbited or naturally decayed or how/if they were fragmented. Orbital parameters and NORAD ID of all tracked debris objects with details of when/how they were created, when they were first detected, and when/if they decayed. JSON or CSV would be preferred to TLE. * My study is focused on commercial payloads; non-commercial payloads will help me calibrate my model, but classified payloads are not necessary. My analyses till date have used Jonathan's Space Report, the Union of Concerned Scientists' active satellite database, data I was able to download from Spa ce-Track.org, and some debris data shared by ESA.							
10. SPECIAL REQUIREMENTS (Specify time period, frequency, etc., of requested data) Ideal sample would be 1958-2018. Yearly frequency is sufficient, i.e. yearly snapshots of orbital state at the end of the year (or some other consistent point in the year). Since my study is academic, I would like to cite the data appropriately. A preferred citation would be helpful. Some journals require data publication alongside articles, unless prohibited by confidentiality requirements. I do not believe any of the data I would like is classified, though I may be mistaken. I would like to be able to save this data for future studies and publish it on my website for other economic researchers, with the appropriate citation.							
11. MODE OF DELIVERY (e.g. email addresses, Space-Track.org accounts, routing indicators, mailing address, etc. Also specify classification requirement) Data may be emailed to akhil.rao@colorado.edu , which is also the username for my Space-Track.org account. I do not have any classification requirements.							
12. DATE DATA REQUIRED (Allow 30 days for routine requests) October 28 th , 2018.				(Maximu Would it	be possible for me to retain the data and on my website, with an appropriate		

14. REDISTRIBUTION CERTIFICATION: I certify that the	, or 15. RE	15. REQUESTOR SIGNATURE					
technical information received through this request will no	- 1 /	11 / Y/					
individual or agency not listed on this form, unless authori		thail I/no					
USSTRATCOM. X		HPM 1 (JEO					
	- · ·						
MILITARY PROGRAM OR PROJECT MONITOR CERTIFICATION							
(Blocks 16-19 Required only for requests directly supporting US Government programs or projects)							
16. CONTRACT #	17. PHONE	***					
18. TYPED NAME AND GRADE OF APPROVING CONT	1	9. CONTRACT OFFICER SIGNATURE					
10. THE DIAME AND GRADE OF ALT ROSING CONT	TAOT OF FIGER	'	3. CONTRACT OFFICER SIGNATURE				
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(FOR JI 20. APPROVED APPROVED W/CAVEAT (DISAPPROVED	see block 22)		21. DATE: ING OFFICIAL SIGNATURE				
20. APPROVED APPROVED W/CAVEAT (DISAPPROVED 22. APPROVAL CAVEAT(s) (if any)	see block 22)						