OMB Control Number 0690-0030 Expiration Date: 7/31/2023

SURFRAD User Survey

Dear SURFRAD data user,

NOAA's surface radiation (SURFRAD) budget network has been operating continuously for 25

years and has acquired a diverse clientele. A measure of its success is the exponential ground in the number of peer-reviewed publications that result from use of SURFRAD data.	owt
The estimated time to complete this survey is 30 minutes. Your identity will remain confidential in any analysis that emerges from this survey.	
If you know of someone who has used SURFRAD data and should receive this survey, plea let me know.	se
Thank you for your time,	
John Augustine SURFRAD Lead	
Please contact <u>john.a.augustine@noaa.gov</u> if you have clarifying questions about this surv Required	vey
1a. How did you become aware of SURFRAD data? Select as many as apply. *	
Check all that apply.	
Word of mouth	
Conference presentation	
Online search	
Publications	
Database search	
NOAA website	
Discussion with SURFRAD manager Receling Surface Rediction Naturals (RSRN)	
Baseline Surface Radiation Network (BSRN)	
Other	
1b. If you answered "other" to question 1a, please add your answer here.	

Check all that apply.
NOAA Global Monitoring Laboratory website National Center for Environmental Information (NCEI) Baseline Surface Radiation Network (BSRN) NASA Langley ordering tool (hourly data) World Radiation Data Center Other:
2b. If you answered "other" to question 2a, please add your answer here.
3a. What SURFRAD products do / would you find most useful? * Check all that apply.
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Check all that apply.
Check all that apply. Aerosol optical depth
Check all that apply. Aerosol optical depth Surface radiation budget components
Check all that apply. Aerosol optical depth Surface radiation budget components Monthly averages Ceilometer measurements (in development) Spectral albedo (in development)
Check all that apply. Aerosol optical depth Surface radiation budget components Monthly averages Ceilometer measurements (in development) Spectral albedo (in development) RadFlux calculations (e.g., clear-sky equivalent)
Check all that apply. Aerosol optical depth Surface radiation budget components Monthly averages Ceilometer measurements (in development) Spectral albedo (in development)

4a. Would you recommend SURFRAD data to a colleague? *
Mark only one oval.
Yes
○ No
Maybe
4b. Please state why you answered 'yes', 'no', or 'maybe' to answer 4. *
5. How many hours do you spend on a weekly basis to extract, process, and/or analyze SURFRAD data? *
Mark only one oval.
< 1 hour
1-3 hours
4-6 hours
7-8 hours
9-10 hours
10-15 hours
>15 hours
Automated process so no personal time dedicated
Other:

enable your use of the data? *
Check all that apply.
Management Scientist/Engineer Statistician Analyst GIS expert Economist K-12 educator Advanced educator Contractor Other:
7a. What are your specific uses of SURFRAD data? Check all that apply. *
Check all that apply.
Check all that apply. Modeling validation/comparison Model assimilation Satellite validation Satellite algorithm development/improvement
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Modeling validation/comparison Model assimilation Satellite validation Satellite algorithm development/improvement

6. What is the role of the person who extracts SURFRAD data from a data archive to

8a. How has SURFRAD been used to improve your products? Check all that apply. *
Check all that apply.
Data assimilation
Verification
Comparisons
Algorithm development
Research
Other:
8b. If you answered "other" to question 8a, please add your answer here.
9. Would latent and sensible heat flux measurements at SURFRAD sites be of value
to your analysis? *
Mark only one oval.
Yes
○ No
Not sure
10. For what purpose(s) would the addition of latent and sensible heat flux
measurements at SURFRAD sites be of value to your analysis?. *
Check all that apply.
Boundary layer processes
Understanding of drought
Completion of the surface energy budget
Cloud formation
Other:

11. Do you have a plan to continue using SURFRAD for your applications and development of value-added products? *
Mark only one oval.
Yes No
12. What did you use for radiation data before you were aware of SURFRAD?
13. Without SURFRAD data, what would you likely not be able to achieve?
14. Please share information about any other known users (general categories of users or points of contact) of SURFRAD data.

SURFRAD data? Check all that apply. * Check all that apply. Agriculture (pest damage/herbivory; nutrient response to runoff; agricultural yield) Renewable energy (wind and solar forecasting; demand loads; biofuels productivity) Commercial building design and energy use patterns Outdoor materials degradation & weathering Toxicology (phototoxicity in marine species) Novel food sources (e.g., microalgae) Human health (e.g., melanoma) Weather Climate Wildfire applications Manufacturing industries Utilities Transportation Defense Industry Arts, entertainment, recreation, accommodation, and food services Educational services, health care, social assistance Finance, insurance, real estate, rental, and leasing I haven't published papers with SURFRAD data Other: 16a. Select any value-added applications related to your use of SURFRAD measurements? Check all that apply. Improvement of model performance or accuracy Improved algorithm development Better forecasts Better services for customers Other: [

15. Which sectors have you addressed in papers that you've published with

17. What list up to	are key outcomes / achievements from your use of SURFRAD data? Ple three. *
19 What	additional collocated measurements or instruments would be of value
	Sites to support your further use of the SURFRAD data?

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A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this survey. Public reporting for this information collection is estimated to be approximately 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to John,A,Augustine@noaa.gov.