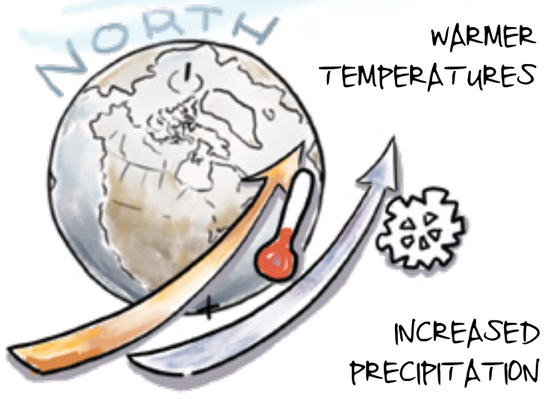
MANAGING CHANGING SNOW LOADS

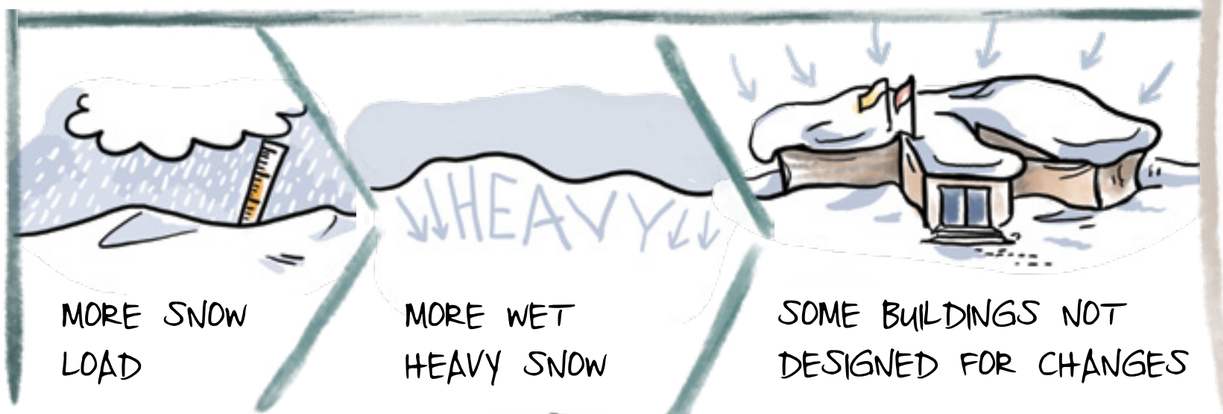
RISK FACTORS FOR SNOW OVERLOAD

ADDING ROOFTOP EQUIPMENT
LONG ROOF SPANS
EXTENSIONS
EXPOSURE TO WIND
LOCATION
DIFFERENT ELEVATIONS, (STAGGERED ROOF LINES)
MODIFICATION TO ORIGINAL ROOF
FLAT ROOFS
NEIGHBORING BUILDINGS
OVERHANG

CLIMATE CHANGE

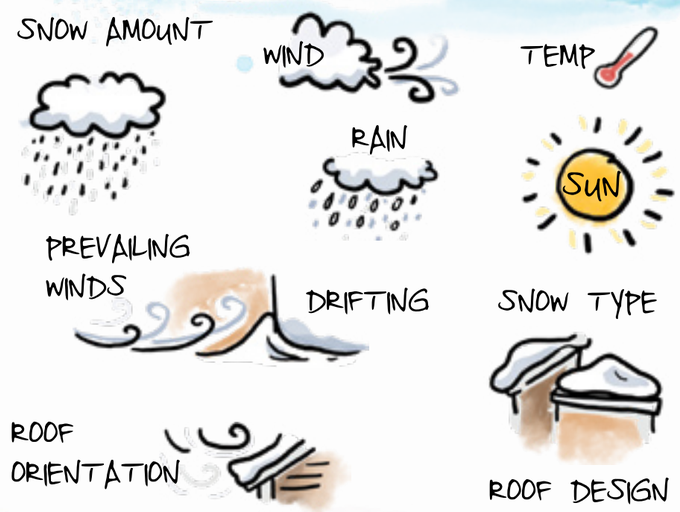


WARMER TEMPERATURES
INCREASED PRECIPITATION



MORE SNOW LOAD
MORE WET HEAVY SNOW
SOME BUILDINGS NOT DESIGNED FOR CHANGES

SNOW BUILDUP FACTORS





SUMMER PLANNING

- IDENTIFY AT-RISK BUILDINGS
- ASSESS RISK FACTORS
- PLAN FOR HEAVY SNOW
- DEVELOP SNOW REMOVAL PLAN

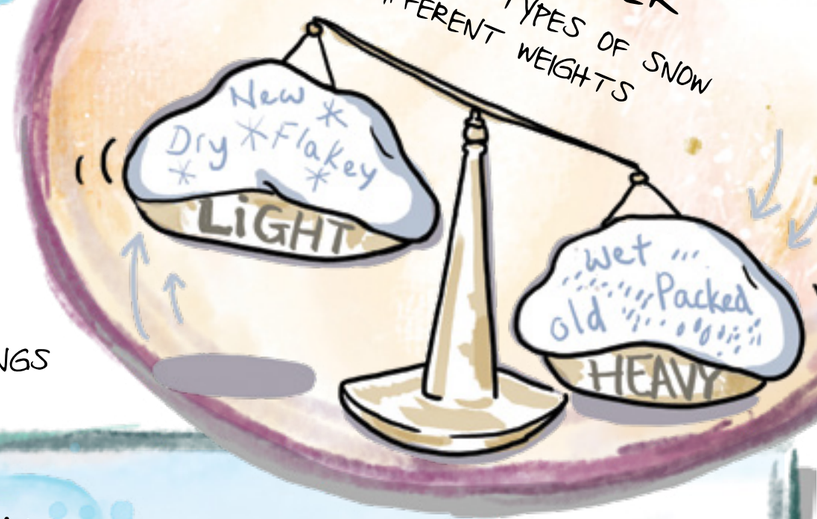


WINTER MAINTENANCE

- LOCAL KNOWLEDGE
- MEASURE SNOW
- UNDERSTAND SNOW
- DOCUMENT
- ASSESS AT-RISK BUILDINGS

REMEMBER

DIFFERENT TYPES OF SNOW = DIFFERENT WEIGHTS





SAFE SNOW REMOVAL

CAN YOU DO IT WITHOUT GOING ON THE ROOF?



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This is a user-friendly introduction to CAN/CSA S502-14 Managing changing snow load risks for buildings in Canada's North.

Ecology North developed this guide for building owners and maintainers, and community decision makers across the north. Homeowners may also find it useful.

Follow the general principles of this guide together with information contained in the more detailed CSA Standard. Save money, reduce risks, and help northern buildings be safer and last longer.



CHANGING SNOW LOADS

Effects of climate change on northern buildings

WEATHER PATTERNS ARE CHANGING ACROSS THE NORTH

- Different temperatures
- More snow and more wet snow
- Rain in winter
- More freeze/thaw cycles
- Changing wind speeds and directions
- Increase in extreme weather events

Buildings designed to handle historical snow levels now have to hold up more snow and heavier snow.

INCREASED SNOW LOADS CAN CAUSE:

- Water leaks
- Structural concerns including roof collapse
- Health risks from slipping hazards and mold
- Less access to water and sewer services
- Expensive building maintenance/repairs
- Increased snow removal costs

We need to adapt to these changes and find ways to effectively deal with snow loads on our buildings.

AT-RISK BUILDINGS

Heavy snowfall affects some buildings more than others



RISK FACTORS

- Building age
- Building materials
- Exposure to wind
- Roof renovations or additions
- Water leaks
- New buildings next door

Pay attention to snow drifts creating uneven weight on the roof. What is causing the snow build-up?

WARNING SIGNS

- Unusual sounds from the structure
- Sagging roofs and ceilings
- New/more severe roof leaks
- New/sudden cracks
- Cracks of drywall or plaster
- Bends or ripples in metal supports
- Hard to open/close doors or windows
- Doors that pop open

Watch for these during periods of heavy snow or melting!



SNOW REMOVAL PLAN

Be ready to take action when it snows

With a plan, you can monitor at-risk buildings more closely and take action to remove snow when needed.

Update the plan every 5 years, or after any changes to the building.

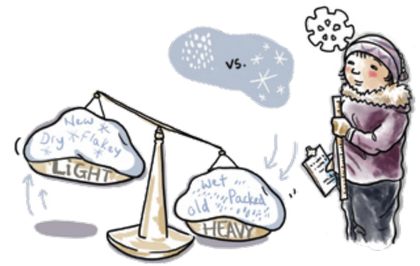
THE PLAN DESCRIBES

- When and how to remove snow safely
- Who is responsible
- What is the sequence for snow removal
- Health, safety, and fall protection concerns
- How to reduce future risks

MEASURING SNOW

Gather data to make good snow removal decisions

Measure snow throughout the winter and over many years. Keep records.



1. Find a flat place away from trees and buildings
2. Measure snow depth in three places
3. Take the average of your measurements
4. Describe the snow: dry, sticky, etc
5. Record the date, time, and place

Use what you learn from local knowledge and other sources to understand changing snow conditions. Eg 'wet' snow can be 10x heavier than 'dry' snow.

If you notice an increase in snow, share this knowledge with others in your community.

SAFE SNOW REMOVAL

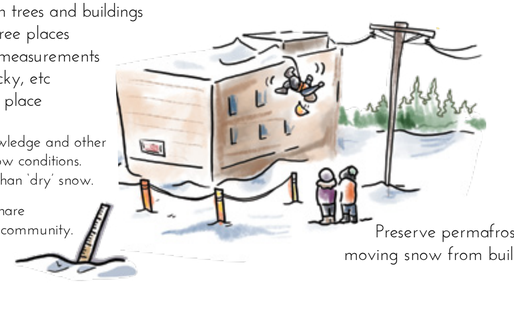
If possible, clear snow without going on the roof

SAFETY PRACTICES

- Use fall protection
- Remove and mark tripping hazards
- Be aware of electrical lines
- Pay attention to unusual sounds
- Check for signs of roof collapse
- Watch out for people on the ground
- Have a plan in case of accidents
- Remove small amounts of snow at a time

PRACTICES TO PROTECT THE BUILDING:

- Remove snow evenly from across the roof
- Do not pile snow in one area of the roof



Preserve permafrost by moving snow from building



ECOLOGY NORTH

(867) 873-6019

WWW.ECOLOGYNORTH.CA

Ecology North is a charitable organization, founded in 1971 to support sound environmental decision-making on an individual, community, and regional level.

Contact us or visit our website for information and other guides in this series.

Poster on the inside

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SPRING THAW

Manage hazards as winter turns to spring

Put **snow guards** over entrances, walkways, and windows to reduce falling snow and ice

Watch for **ice build-up.** As it melts, it can cause icicles, leaks, and permanent building damage.

Watch for **slipping hazards** where water drips off the roof and freezes.

Use signs and tape to show **restricted areas** below roof dangers.

Move snow away from the building foundations to allow cold air to **recharge the permafrost**.

Make sure **drainage** takes water away from the building. Clean gutters and check downspouts.

INSPECTING BUILDINGS

In heavy snow years, assess at-risk buildings

INSPECT AND RECORD THE FOLLOWING

- Flashing and roof parapets
- Snow and ice build-up
- Bends in rooflines
- New cracks
- Corrosion and signs of stress in metal roofing

Pay particular attention to renovated areas, changes to the roof, and any areas with noticeable snow and ice build-up.

BUILDING DESIGN

Basic design principles for the changing climate

We usually design new buildings for up to a 50-year lifespan. Think ahead and make decisions with climate change in mind. Good design will reduce risks and future problems.

- Keep roof designs simple
- Build with major wind directions in mind
- Consider other location-specific factors

UPDATING AN EXISTING BUILDING?

Consider how additions or new equipment (e.g. solar panels, satellite dishes) will affect roof structure and snow drifting. Think about including a roof monitoring system.

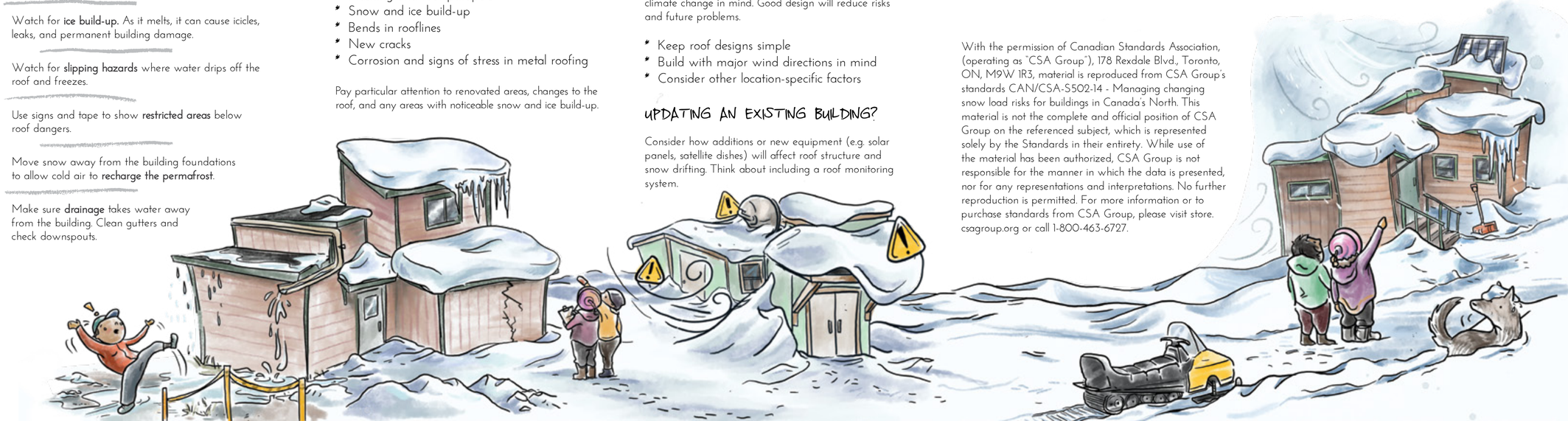
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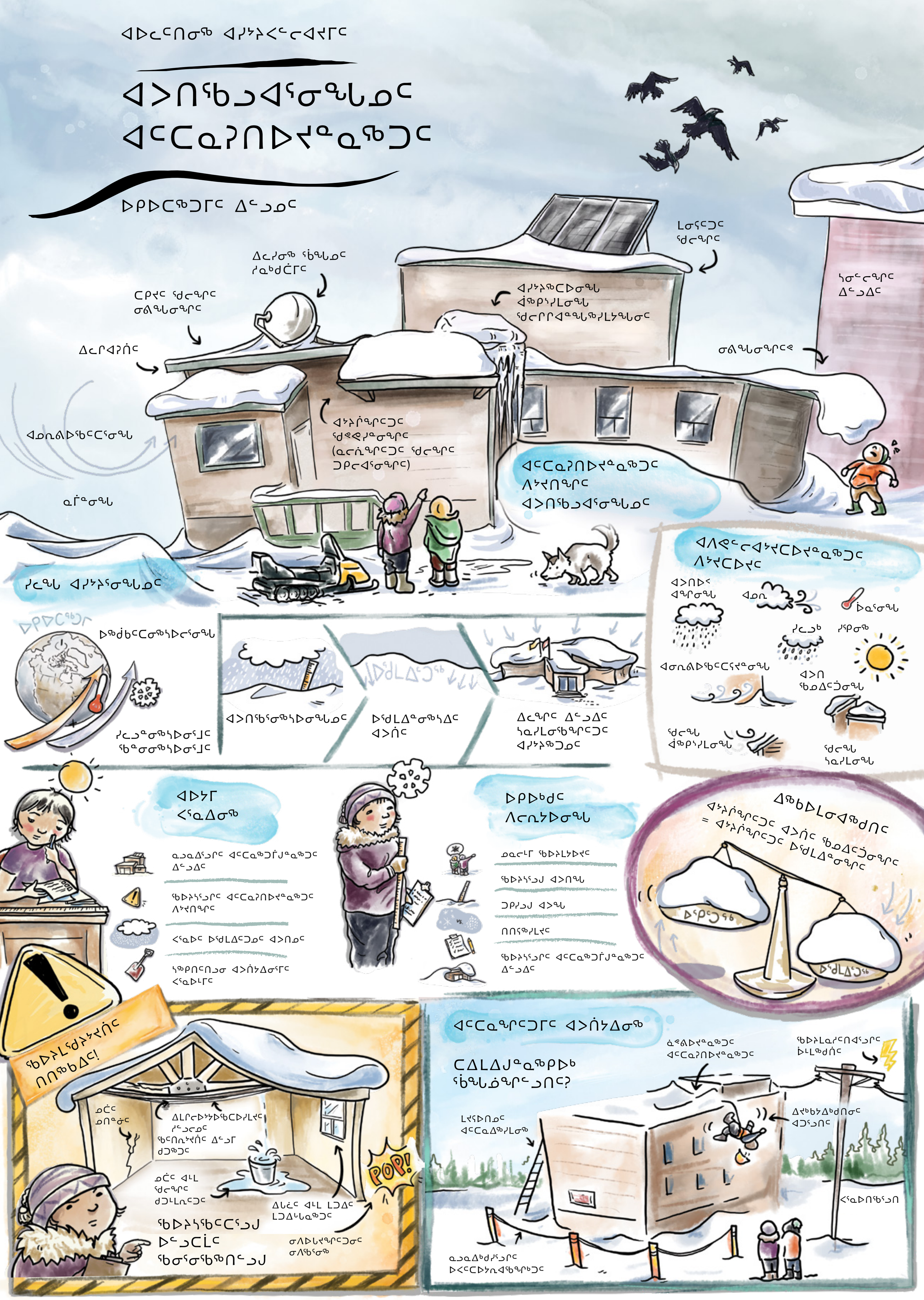
MANAGING CHANGING SNOW LOADS



ᐊᐅᓪᓗᓂᑎᓂᒃ ᐊᓯᖏᓐᓂᕐᓂᐊᕐᓗᑦ

ᐊᓐᓂᑎᖅᓯᐅᐊᖏᓂᖅᓯᓚᓄᑦ ᐊᑎᑕᓇᓯᑎᐅᓴᖅᓇᖅᑐᑦ

ᐅᑭᐅᑕᖅᑐᑦ ᐃᓕᓴᓄᑦ


ᐃᓕᓴᒃ ᖃᐅᔨᓄᑦ ᓇᓇᕐᑕᒥᑦ
ᒥᓪᓚᖓᓂᖅᑕᒥᑦ
ᐃᓕᑎᐊᔪᓂᑦ
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ᐊᓐᓂᑎᖅᓯᐅᐊᖏᓂᖅᓯᓚᓄᑦ
ᐃᓕᓴᒃ ᐊᓐᓂᑎᖅᓯᐅᐊᖏᓂᖅᓯᓚᓄᑦ



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Ecology North ᓴᖅᑭᑎᑎᕆᒪᔪᓂ ᒫᓐᓇᐅᔭᓕᕐᓂ ᐃᑦᑐᓂᒃ ᐊᑦᑕᐊᒪᓂᒃ ᐃᓕᓴᓂ ᓇᓚᕐᓂᒃᑐᓂ ᐊᐃᒪᓂᒥ ᐃᓕᓴᓂ ᐅᓇᓗᓂᒥ ᐃᓱᒪᓕᐅᑦᑎᓂᖅᑐᓂ ᐅᐱᐅᑦᑕᖅᑐᑎᓄᑦ. ᓇᓚᕐᓂᖅ ᐊᖏᔪᓂᖅᑐᓂ ᐊᑐᑎᒃᑭᓇᓂᖅᑐᓄᑦ.

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MUNARIPLUGIT AALLANGUQPALLIANIIT APINNINGIT

ILAAKTUQHUGIT IGLUQPAUM QILANGATA INGILRUTAIT

ATTARIKTUT IGLUQPAUM QILANGIT

HILALLIRIJAIT IGLUQPAIT

TAKIJUT IGLUQPAUM QILANGANUT AKTILANGIT

IHUAQHAQTAUJUKHAT IGLUQPAUM QILAARALUANGANUN

UIGUNIIT

APUT HITUAGJUQITTUQ

PIDJUTAULAJUT ANUQQIMIT

AALLATQIIKTUT KINGINGIRIT (AALLATQIIKTUT IGLUQPAUM QILANGIT PUQTUNIIT)

NAJUGAANNI

QAJANGNAQHITIVANGNIK APUTIP APIDJUARANGAMI

HILAUP AALLANGUQTIRNINGANUT

TUNUNIRMI

HILAUP ALLANGUQTIMINGA PIDJUTAULIQTUQ QAJURNAITQIJAUVALQTUQ UKIUQ

NIPALUKHANIKPALIKHUNILLU, NATATQUQATTAKPALIHHUNILLU, KINNNAKHIVALIQTURLU

APIDJUUMINIQ

UQQUMAITTUQLU

KINIPAJUMIK UQQUMAITTUMIK APUJUQ

ILANGIT IGUQPAIT HANAJAUNIIT AALLANGUQTILIMAITTUT

APUTANGURJUARUTIVAKTUT PIDJUTINGIT

APUTIP AKTILANGA

ANURI

HILAUP UNNARNINGA

NIPALUK

HIQINIQ

ANUQHIRLUARVIIT

NATIRUVIK

APUTIP QANURINNIA

IGLUQPAUM QILANGA KANGIQHIPKAIDJUTIT

IGLUQPAUM QILANGA QANURINNIA

AUJAMI UPALUNGAIJAUTIKHAT

NAUNAJARLUGIT HIVURANAQHIHMAJUT IGLUQPAIT

NAUNAIJARUGIT HIVURANARNIT PIDJUTAUJUT

UPALUNGAIQHIMALUHI APIDJUAQQAT

PILIURLUHI APUTAIJAIVIKHAMIK UPALUNGAIJAUTIKHAMIK

UKIUMI HAVAKTAUNIKHANUT

NUNAMINGNI QAUJAMAJAKHAT

NAUNAIJARLUGU APINNINGANIK

KANGIQHITIKHANIK APUTIMIK

TITIQQAT

QAUJIHARLUGIT QAJANGNARNINNIK IGLUAPANGNIK

ITQUMALUTIT AALLATQIIKTUT APUTIT = AALLATQIIKTUT UQQUMAITILANGIT

Nutaaq Paniupagjuq Hatuliatut Ittut

UQITTUQ

Kininnaqhijuq Utuqqaq Naptijuq

UQQUMAITTUQ

AMIRNAQTUNIK NAUNAIQHITIKHAT!

NUTAAT QUPPAIT

IGLUP QILANGANI IMAQTUUT

PIRINGAJUT IKAQTUUTIT TUQHUAT

NUTAAT & AKHUTAK IGLUQPAUM QILANGANI KUHIQTUT

IGALAANGIT & UKKUANGIT UKURUMINAIQPAKTUT

IHUANIITTUNIK IHIVRIUQTAUVAKTUT UBLUQ TAMAAT QANILAQIQPIARANGAT

AALLANGAJUNIK NIVJAAKTUNIK TUHARNAQTUQ

POP!

QAJANGNAITTUMIK APUTAIJAIVIKHAT

APUTAIJAINIARALUAQQIT MAJURAQHIMAITTUMIK IGLUQPAUM QILANGANUN?

NAALVIKHAQARIAKHANIK NAUNAIJAILUTIT

QAJAGILUGIT PAUWATUUTINGIT

MAJUGAUTANUT QAJAGIDJUTIKHAT

IJUKKALAITKUTIKHAMIK ATUDJAVUTIN

NAUNAJARLUGIT UPAQUJAUNGITTUT HUMIITTAKHAITA

UPALUNGAUJAUTIKHALIURLUTIT

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Hamna atuqtiinnut-ajurnaittuq naunaiqhitikhat CAN/CSA S502- 14 Munariplugit aallanguqpallianiit aputip qajangarniit igluqpangnut Kanadap Ukiuqtaqtumi.

Ecology North piliuqtut maliktakhanik nappaqtitijut nanminiqaqtut mnunaqtiujullu, nunallaani ihumaliuqtit tamainni ukiuqtaqtumi. Igluqaqtut nanminiqaqtunut ikajuuutauniaqturlu.

Maliklugit hivunikhaliurutaiti maliktakhat naunaitkutikhanik piqaqtut naunaijattiaqhimajut CSA Atuqpagait. Manikturjuarnaitumik, qajangnaitqijamiklu, ikajurlugit ukiuqtaqtumi igluqpainnut qajangnaitqijamik hivitujumullu aturianginni



MUNARILUGIT AALLANGUQPALLIANIIT APINNINGIT

Pidjutauvaktut hilaup allanguqtirninga ukiuqtaqtumi igluqpainnut

HALIAUP QANURINNINGIT AALLANGUQPALLIAJUT TAMAINNI UKIUQTAQTUMI

- Aallatqiiktut uunnarningit qajurnarningit
- Aidjuatqijauvaliqtuq imaalu kinipatqijamik apunmik
- Nipalliqqat ukiumi
- Aidjuatqijauvaliqtut qiqivangniit/auktuqpangniit qakugun'ngurangat
- Aallanguqpallianiit anuriqquqtuhimaliqhunilu imaalu humit anuqqarnia
- Amigaigjuumijut hila allanguqtaalaqipluni qillaminuaq

Igluqpait hanajauhimajut ihuaqqutikhanik uttuqqarjuat aputiqarniit tadja aputirjuanik uqqumaitqijaniklu aputaanik.

ANGIGLIVALLIANIIT APINNINGNUT PIDJUTAUNAQTUT:

- Imap kuhiqtarniit
- Igluqpaup qanurinningata hananianut ilaujut igluqpaum qilanga katagjuqiliqqan
- Aannirnaqtut hivuuranarniit quijarnaqtunut uqqurnirmitlu
- Ikinnirit pivikhanginnik imiqtarvikhangit imaijarviitlu qaluraqtauvikhainnik ikajuutikhat
- Akiturjuaqtut igluqpangnut munaqhidjutikhangit/ ihuaqhautikhanginniklu
- Akitturjuumijut aputaijaidjutikhanginnut akiliqtakhangit

Ihuaqhaidjutigijakhavut hapkuat aallnguqtirniit imaalu qiniqhialuta qanuriliurutikhaptingnik ihuaqtumik havauhikhainnik apinnninginut igluqpautiptingnut.

QAUJHARLUGIT QAJANGNARNINNIK IGLUAPANGNIK

Akhuut apittarangami ilanginun igluqpangnut pidjutauvaktuq

QAJANGNARNIIT PIDJUTAUJUT

- Igluqpaup uttuqqauninga
- Igluqakhanut atuqtakhat
- Aktuqtauhungujut anuqqimit
- Igluqpaum qilanganik nutannguqtiutit ilaaktuutailluuniit
- Imap kuhiqtarniit
- Nutaat igluqpaliuhaqhimajut hilataani

Nahurivaglugit apidjuaniit uqqumairjuarutauvaliqtut igluqpaum qilanganun. Hunat apidjuarutauvaktut?

AMIRNAQTUNIK NAUNAIQHITIKHAT

- Aallangajunik nivjaaktunik tuharnaqtut iglumit qiqivalkirangat auktuqtitirangaluuniit
- Ilungmuqtittuq igluqpaum qilangit igluqpaum iluatta qilangit
- Nutaat/akhutak igluqpaum qilangani kuhiqtut
- Nutaat/quppangit
- Qppangit iglum iluanni hanirainni qaliqtainni
- Pirinniit havaigaliinni nappaqutainni
- Uquiqhirikpatut/ukkualimairalutiklu ukkuangit ukuallu igalaangit
- Ukkuangit ukkuikpaktun

Munarilugit ukuat apitirjualirangat mahaktilirangatluuniit!

APUTAIJAVIKHANIK UPALUNGAIJAUTIKHAT

Upalungaikhimalutit qanuriliurutikharnik qanniliranga

Parnautikharnik, munarilajatit qaujiharlugit qajangnarniinnik igluqpangnik imaalu aputaijaivaglutit.

Nutangguqtirlugu parnautikhat tallimat ukiut naatarangata imaaluuniit aallanguqtirungni igluqpait.

UPALUNGAIJAUTIKHALIUQHIMAJUT NAUNAIJAUTINGIT

- Qakugunguraikpat qanuqtullu apuutaijautikhanik qajangnaittumik
- Kitkut munariniaqqatigiik
- Qakuugungurangat aputaijailiqpakpat
- Aanniaqtailinikkut, aanniqtailinikkut, imaalu ijukkaqtailitikhanut ihuumaluutaujut
- Qanuqtut ikiglinahuarutikhanik hivuvani qajangnaktukhanut



NAUNAIJARLUGU APUTIT

Naunaijarlugu apinninganik ukiungani imaalu amigaittuni ukiuni. Pihimalutit naunaitkutikharnik titiqqaniik.

Naunaijarlugu apinninganik ukiungani imaalu amigaittuni ukiuni. Pihimalutit naunaitkutikharnik titiqqaniik.



1. Qinikhialutit attariktut ahianit nappaaqtuit igluqpangittlu
2. Naunaijarlugit apinninganik qanuqtut ivjuhijakhanik pingahuni aallatqiiktuni najugainni
3. Naunaijautingnit titirarlugtit naunaiqtarnik
4. Naunairlugu aput: kininnaittuq, kininnaqhijuq, taimaalu
5. Titirarlugit ublua, ubluqhiutikkut humungarmat, humillu

Aturlugit ilittatit hapkunanga nunamingni qaujamajakhat imaalu aallanit kangiqhitikharnik aallanguqpallianiagun aputim qanurinnianik. Eg 'kinipajuq' aput imaittaaqtuq 10x uqqumaitqijaujumik 'paniupajumit' apunmit.

Ilitturiguvit apidjuakpaliqtumik, uqarlutit inungnut nunaqatingnut qaujimajarnik.

QAJANGNAITTUMIK APUTAIJAVIKHAT

Piuminaqqan aputaijaivaqtuin majurakhimaittumik igluqpaum qilanganun

QAJANGNAITKUTIKHANGIT ATUQTAKHAT

- Aturlutit iukkaktailitikharnik annumik
- Unngavarlugit naunairlugillu nalviulajut qajangnarniit
- Qaujimalugit alruujat
- Nahuurilugit aallangajunik nivjaaktunik tuharnaqtuq
- Ihivriuqhivaglutin naunaitkutikharnik igluqpaum qilanga katagjuqiliqqan
- Inungnik munaqhilutin igluqpaum hilataaguktukhanik
- Parnaijautikhaliuqhimalutit pijaqquqtuqaqqan
- Apuutaijailutin mikujunik atauttikungittumik

ATUQTAKHAT MUNAQHIDJUTIKHARNIK IGLUQPANGNIK:

- Apuutaijai;lutin tamaanit ilainnagingitaanit igluqpaum qilanganit
- Atauhiinarmut aputaijaihuirlutit igluqpaum qilanganun



Pihimalugu nunap puvitquumaninga ahinungaqtirilutin apunmik igluqpangmit



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Ecology North maniliungittut tiqutaujuq, piliuqtauhimajuq 1971 ikajuutikhanik ihuaqtut avatilirinirmut ihumaliurutikhainnik inungmut, nunamut imaalu avikturniannut.

Hivajarlutata kuluguluunnit qaritaujakkurvikput nauunairumajarnik imaalu aallanik maliktakhanik hapkutiguuna.

Nivingajukhat Taiguagakhat

Titiranguqtiqhimajut atuqtauffaaqhimajunut makpiaanut 2020

UPINGAMI MAKHAKTIRINGAT

munarilugit qajangnarniit upin'ngakhaqtiliriniani

Iliurailutin apittailitikhanik qulaanun ukkuaqarviit itiqtiriujunut, apqutauvaktunun, imaalu igalaanginun apuutit hukillu iukjaktaililugit.

Nahurilugit **hikuuniktirniit.** Mahaktiliqqat, iglup qilanganit hikuuvaluit kutikkarniit, kuhirniit, imaalu igluqpangmut huun'ngiutivangniit.

Takuuqattadjavutin **quijaqinnaqhijukhanik qajangnaqtunik** imarmit kuhiqtarniinnit igluqpaum qilanganit qiqinnahiraikpat.

Aturlutit titiraqhimajunik nipitirlugillu takunnaqtumik **upaktaujukhaungittunik** ataani igluqpaum qilanganit hivuuranarniinnik.

Ahianungaqtiricvaglutit apunmik igluqpaum tunngaviinnit nirlaumanirmik ikiarnirmik aullavikhanik **qiqumajangani nunap puvitquumaninga.**

Uvinninga **immap qurluariangani** igluqpangmit ahianun. Haluummaqtiqpaglugit igluqpaup qilanganit imaijarviit kuhiqtarviillu.

IHIVRIUQHINIQ IGLUQPANGNIK

Apidjuaqhimajarangat ukiuni, qaujiharlugit qajangnarniinnik igluqpangnik

NAUNAIJARLUGIT TITIRARLUGILLU HAPKUAT

- Kuhilaitkutikhangit imaalu igluqpaum qilanga immalaitkutikhait
- Apiniit hikuniillu igluqpangmut
- Piringaniit igluqpaum qilanganita ilaaturniit
- Nutaat quppait
- Qattinirmit auvallianiit imaalu takunnarniit huunngikpalliraningit havigaliit igluqpaum qilangit

Takuukpaglugit nutaannguqtikhimaniit, himmauhiqhimaniit igluqpaum qilangata, imaalu humiliqaak takunnarnirit apinnirit hikunirillu.

IGLUQPAUM QANURINNIKHAINNIK

Qanurinnikhainnun hivunikhaliurutikhainnik hilaup allanguqtirninga

Qanurinnikhainnik nutaat igluqpait imaatut 50-ni ukiuni atuqtauninikhanik. Ihumalutit hivunikhamun imaalu ihumaliurlugit hilaup allanguqtirninga. Nakuujut qanurinnikhanut igluqpaum ikiglitiniaqtun qajangnarniinun hivunirmilu ihuirutaullajunik.

- Igluqpaum qilanganut qanurinnikhaa hananikha a ajurnaittumik pihimalugu
- Nappaqtirilutit annuqhirjuarningit humit ihumagilugit
- Ihumagilugit aallanik napparvikhanik pidjutaujukhanik

NUTANNGUQTRINAHUAQQIT TADJA IGLUQPAUJUMIK?

Ihumagilugit qanuqtut ilaaqtauniit imaaluuniit nutaat ingilrutit (e.g. higinirmit pauwaliurutikhat, satellite dishes) ihuirutauniarunaqhijut igluqpaum qilanganut hanahimaninganut imaalu apidjutauvalirlutik. Ihumagilugu ilaliutilugu igluqpaum qilanngani munaqhidjutikhamik naunaitkutikharnik.

Standards Council of Canada
Conseil canadien des normes

Crown-Indigenous Relations and Northern Affairs Canada | Relations Couronne-Autochtones et Affaires du Nord Canada

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Nunavut

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